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University of Windsor Undergraduate Calendars

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Winter 2008

## University of Windsor Undergraduate Calendar 2008 Winter Electronic Edition

University of Windsor

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## UNDERGRADUATE CALENDAR

The Undergraduate Calendar is a comprehensive guide to all undergraduate programs and courses available at the University of Windsor. It outlines academic regulations and standards, program degree requirements, and general University policies for all undergraduate programs (with the exception of Law)

The online calendars are the official calendars. The University of Windsor publishes undergraduate web calendars on a semester basis (Fall, Winter, and Spring).

*Note:* Students may follow the academic rules and program regulations set out in the calendar of the term in which they were first admitted to the program or any subsequent calendar.

### FEDERATED AND AFFILIATED INSTITUTIONS:

Assumption University

Canterbury College

Iona College

The University of Windsor is a full member of the Association of Universities and Colleges of Canada, and the International Association of Universities.

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1. Make sure you are familiar with the undergraduate *Academic Regulations*, as well as the specific regulations set out by the area offering your program.

2. Refer to the [Glossary](#) and [Course Numbering System](#) when registering for courses.

3. Check the [Academic Dates](#) (to find out when you should be registering for classes and when you should be taking a **vacation!**)

4. Bookmark the online graduate calendar in your FAVORITES!([www.uwindsor.ca/calendars](http://www.uwindsor.ca/calendars))

5. Don't forget to complete your [Application to Graduate](#) by the application deadline.

6. Students may follow the academic rules and program regulations set out in the calendar of the term in which they were first admitted or any subsequent calendar.

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	<b>GLOSSARY</b>
	This glossary explains some terms which are used frequently throughout this Calendar. It is intended as a quick-reference guide and may not necessarily offer the complete, official definitions and explanations as they apply to the University's programs and the administration of its regulations.
	<b>Antirequisite</b> - A course or other level of attainment which, if already successfully completed, does not permit registration for credit in another course, and which cannot be taken for credit concurrently with that other course.
	<b>Attempt</b> - Generally, any course for which a final grade has been assigned, including "WF" - Withdrew Failing. Failures which are repeated and for which credit is subsequently earned may or may not be considered as attempts, depending upon individual faculty regulations. If a student transfers from one program to another, not all previous attempts necessarily will be counted as attempts within the student's new program.
	<b>Bachelor's Degree (Baccalaureate)</b> - The first university degree, for which a student follows a specific undergraduate program (e.g., B.A.- Bachelor of Arts).
	<b>Certificate</b> - At the undergraduate level, a program consisting of eight to twelve one-term course equivalents in a specialized area(s) of study.
	<b>Corequisite</b> - A course which must be taken concurrently with another course which lists it as a corequisite.
	<b>Course</b> - A unit of study identified by a course title and a unique course number. Unless otherwise specified, the term "course" refers to a one-term, 3.0 credit course offering.
	<b>Two-Term Course</b> - A course taught over two terms, usually the Fall and Winter terms. A two-term course normally carries twice the credit value of a one-term course, or 6.0 credits.
	<b>Half Course</b> - A course having a value of 1.5 credits. Half courses may be offered for fewer contact hours per week over an entire term, or may be concentrated in either the first or the second half of a term.
	<b>Credit</b> - A unit of academic value earned within a particular program. A credit value of 3.0 normally is assigned to a one-term (13-week) course. A two-term course, therefore, would have a credit value of 6.0; a half-course 1.5.
	Other credit values may be assigned. Some courses may be taken for varying amounts of credit within a specific range (e.g. 2.0 to 9.0 credits); other courses may be offered for alternate credit values (e.g., 3.0 or 6.0 credits).
	Credit values are used in the calculation of averages for academic standing and in the determination of the student's year or level within a specific program. (See also "Weight").
	<b>Cross-Listed Courses</b> - Courses which are listed under two different numbers in two different subject areas. Cross-listed courses may be taken in either subject area, but credit may be earned in only one course.
	<b>Cumulative Average</b> - An average which is based upon all courses counted as attempts within a student's current program.
	<b>Diploma</b> - At the undergraduate level, a program of study less extensive than a degree program, but requiring more courses than a certificate program.
	<b>Full-Time Student</b> - A student who is registered in four or more undergraduate courses in a term. (See 2.4.1.)
	<b>Linked Courses</b> - Credit may not be allocated to certain courses until a subsequent course is also successfully completed. Such "linking" of courses will be noted in the course descriptions.
	<b>Major</b> - A formal, specific concentration of courses within a subject area as defined by its degree program(s).
	<b>Major Average</b> - An average based upon courses attempted within the student's major as defined by the student's degree program.
	<b>Option</b> - Generally, a non-major course not specifically required in a program, but for which credit may be earned towards the degree, certificate, or diploma offered in that program.
	Specific restrictions may apply in some programs.
	<b>Part-Time Student</b> - A student who is registered in less than four undergraduate courses in a term (i.e., less than 12.0 credits). (See 2.4.1).
	<b>Prerequisite</b> - A course for which credit must have been earned prior to registration in another course which lists it as a prerequisite. ("Consent of Instructor" may be listed as an alternative to, or in addition to a given course prerequisite.)
	<b>Program</b> - A combination of courses in a subject area (or areas) which fulfills the requirements for a degree, certificate, or

diploma.

**Program Approval** - For students in certain programs, consulting with and obtaining the signed approval of course selections by a faculty advisor may be required as part of the registration process.

**Registration** - The process of selecting courses, obtaining faculty approval for course selections where necessary, and making the appropriate arrangements with the University to pay the required fees.

**Required Course** - A course for which credit must be earned in a student's program.

**Semester** - Same as "Term" (see below).

**Standing Required** - Individual faculties and set out specific requirements which students must meet in order to continue in their programs. These requirements normally include the maintenance of specific minimum cumulative and major averages, and also place certain restrictions upon the number of courses a student is permitted to have failed. Progress is reviewed at the end of each term.

**Term** - An academic period of thirteen weeks' duration. The Fall term extends from September to December; the Winter term from January to April. Intersession, which extends for six weeks from mid-May through the end of June, and Summer Session, which extends from the beginning of July to mid-August are considered together as a single term.

**Transcript** - A document issued by the Office of the Registrar which records all aspects of a student's registrations and grades obtained at the University. An "official" transcript is one which bears the official seal of the University and which is sent directly to another institution or official of an organization. "Unofficial" transcripts also may be issued to the student.

**Withdrawal** - A formal procedure set out within the regulations of the University for withdrawing from an individual course(s), or from the University entirely.

**Weight** - For students registered in the Faculty of Engineering, the calculation of averages is based upon a weighting factor. The weight of an individual course is equal to the number of lecture hours per week, plus one-half of the number of laboratory and/or tutorial hours per week.

**Year (or Semester)** - Attaining a particular Year or Semester level depends upon earning credit for a specific number of courses. The number of courses normally taken in one term/semester determines the Semester level; the number of courses normally taken in a program over both the Fall and Winter terms of a "regular" academic year would determine the Year level. In some programs, the attainment of a specific level also may reflect the earning of credits in a particular group or sequence of courses.

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### A

[Anthropology](#) (BA)  
[Anthropology](#) (BA Honours)  
[Anthropology](#) (BA Honours Combined Program)  
[Art History](#) (BA)  
*See also [Visual Arts](#)*  
[Arts and Science](#) (BAS Honours)

### B

[Behaviour, Cognition and Neuroscience](#) (BSc Honours)  
*See also [Biological Sciences](#)*  
*See also [Psychology](#)*  
[Biochemistry](#) (BSc Honours)  
[Biochemistry](#) (BSc Honours with Thesis)  
[Biochemistry](#) (BSc Honours Combined Program)  
[Biochemistry and Biotechnology](#) (BSc Honours)  
[Biological Sciences](#) (BSc Honours)  
[Biological Sciences](#) (BSc Honours with Thesis)  
[Biological Sciences](#) (BSc Honours Combined Program)  
[Biological Sciences and Computer Science](#) (BSc Honours)  
[Biology and Biotechnology](#) (BSc Honours)  
[Business Administration](#) (BComm Honours)  
[Business Administration](#) (BComm Honours) (Co-op)  
[Business Administration and Computer Science](#) (BComm Honours)  
[Business Administration and Computer Science](#) (BComm Honours) (Co-op)  
[Business Administration and Economics](#) (BComm Honours)  
[Business Administration for University Graduates](#) (BComm)  
[Business Studies - Accounting Track \(for qualified graduates of CAATs\)](#) (BBS)  
*See also [International Business](#)*  
*See also [Law/Master of Business Administration \(Integrated LLB/MBA program\)](#)*

### C

[Chemistry](#) (BSc Honours)  
[Chemistry](#) (BSc Honours with Thesis)  
[Chemistry](#) (BSc Honours Combined Program)  
[Chemistry and Physics](#) (BSc Honours)  
[Chemistry and Physics](#) (BSc Honour with Thesis)  
[Child Psychology](#) (BA)  
*See also [Developmental Psychology](#)*  
*See also [Psychology](#)*  
[Civil Engineering](#) (BASc) (Co-op)  
[Classical Civilization](#) (BA)  
[Classical Civilization](#) (BA Honours Combined Program)  
[Classical Civilization \(Greek or Latin Option\)](#) (BA Honours)  
[Classics and Modern Languages](#) (BA)  
[Communication Studies](#) (BA)  
[Communication Studies](#) (BA Honours)  
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*See also [Drama and Communication Studies](#)*  
*See also [Visual Arts and Communication Studies](#)*  
[Computer Science](#) (BCS)  
[Computer Science](#) (BCS Honours) (Co-op)  
[Computer Science](#) (BSc Honours Combined Program)  
[Computer Information Systems](#) (BSc Honours) (Co-op)  
[Computer Science for University Graduates](#) (BCS)  
[Computer Science with Software Engineering Specialization](#) (BSc Honours) (Co-op)  
*See also [Biological Sciences and Computer Science](#)*  
*See also [Mathematics and Computer Science](#)*  
*See also [Physics and Computer Science](#)*

[Criminology \(BA Honours\)](#)  
[Criminology \(BA Honours Combined Program\)](#)

## **D**

[Developmental Psychology \(BA Honours\)](#)  
[Developmental Psychology \(BA Honours with Thesis\)](#)  
[Developmental Psychology \(BA Honours Combined Program\)](#)  
[Developmental Psychology \(BA Honours with Thesis Combined Program\)](#)  
*See also Psychology*  
[Diaspora Studies \(BA Honours Combined Program\)](#)  
*See also Social Work and Diaspora Studies*  
[Drama \(BA\)](#)  
[Drama \(BA Honours\)](#)  
[Drama \(BA Honours Combined Program\)](#)  
[Drama and Communication Studies \(BA Honours\)](#)  
[Drama in Education and Community \(BA Honours\)](#)  
[Dramatic Art: Acting \(BFA Honours\)](#)

## **E**

[Earth Sciences \(BSc Honours Combined Program\)](#)  
[Economics \(BA\)](#)  
[Economics \(BA Honours\)](#)  
[Economics \(BSc Honours\)](#)  
[Economics \(BA Honours Combined Program\)](#)  
[Education \(BEd\)](#)  
[Education - Concurrent French Studies/Bachelor of Education \(BA/BEd\) \(BA Honours/BEd\)](#)  
[Education - Concurrent Mathematics/Bachelor of Education \(BMath/BEd\) \(BMath Honours/BEd\)](#)  
[Education - Concurrent General Science/Bachelor of Education \(BSc/BEd\)](#)  
[Education - Concurrent BA/Bachelor of Education/Diploma in Early Childhood Education \(BA/BEd/ECE\)](#)  
[Education - Concurrent BMath/Bachelor of Education/Diploma in Early Childhood Education \(BMath/BEd/ECE\)](#)  
[Education - Concurrent BSc/Bachelor of Education/Diploma in Early Childhood Education \(BSc/BEd/ECE\)](#)  
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[Electrical Engineering \(BASc\) \(Co-op\)](#)  
[English Language and Literature \(BA\)](#)  
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[English Literature and Creative Writing \(BA Honours\)](#)  
[English Literature and Creative Writing \(BA Honours Combined Program\)](#)  
[Environmental Biology \(BSc Honours\) \(Co-op\)](#)  
*See also Biological Sciences*  
[Environmental Engineering \(BASc\) \(Co-op\)](#)  
[Environmental Geoscience \(BSc Honours\) \(Co-op\)](#)  
[Environmental Geoscience \(BSc Honours with Thesis\) \(Co-op\)](#)  
[Environmental Science \(BSc Honours\)](#)  
[Environmental Science \(BSc Honours with Thesis\)](#)  
[Environmental Studies \(BES Honours\)](#)

## **F**

[Family and Social Relations \(BA\)](#)  
[Family and Social Relations \(BA Honours\)](#)  
[Family and Social Relations \(BA Honours Combined Program\)](#)  
[Forensic Science \(BFS Honours\)](#)  
[Forensics and Criminology \(BA Honours\)](#)  
[French Studies \(BA\)](#)  
[French Studies \(BA Honours\)](#)  
[French Studies \(BA Honours Combined Program\)](#)  
*See also Education - Concurrent BA in French Studies/Bachelor of Education*

## **G**

[General Science \(BSc\)](#)  
[General Science \(Degree Completion Program\) \(BSc\)](#)  
*See also Education - Concurrent BSc (General Science)/Bachelor of Education*  
[General Science/Medical Laboratory Science Diploma \(BSc Concurrent Program\)](#)  
[Geoinformatics \(BSc Honours\)](#)  
[Geology \(BSc Honours\) \(Co-op\)](#)  
[Geology \(BSc Honours with Thesis\) \(Co-op\)](#)  
[Geography \(\*see Physical Geography\*\)](#)

## **H**

[History \(BA\)](#)  
[History \(BA Honours\)](#)  
[History \(BA Honours Combined Program\)](#)

## **I**

[Industrial Engineering \(General Option\) \(BASc\) \(Co-op\)](#)  
[Industrial Engineering with Automotive Manufacturing Systems Engineering Option \(BASc\) \(Co-op\)](#)  
[Industrial Engineering with Minor in Business Administration \(BASc\) \(Co-op\)](#)  
[Industrial Engineering with Supply Chain Engineering Option \(BASc\) \(Co-op\)](#)  
[Interdisciplinary Studies \(BA\)](#)  
[Intellectual Property Law](#)  
[International Business \(BComm Honours\)](#)  
[International Relations and Development Studies \(BA Honours\)](#)

## **K**

[Kinesiology - Leisure and Sport Management \(BHK Honours\) Co-op](#)  
[Kinesiology - Movement Science \(BHK Honours\) \(Co-op\)](#)

## **L**

[Labour Studies \(BA\)](#)  
[Labour Studies \(BA Honours Combined Program\)](#)  
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## **M**

[Mathematics \(BMath\)](#)  
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[Modern Languages and Second-Language Education \(BA Honours\)](#)  
[Modern Languages and Second-Language Education with Two Language Options \(BA Honours\)](#)  
[Music \(BA Honours\)](#)  
[Music \(BA Honours Combined Program\)](#)  
[Music \(BMus Honours\)](#)  
[Music Therapy \(BMusTh Honours\)](#)

## **N**

[Nursing - Collaborative BScN Program](#)  
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## **O**

[Operational Research \(BOR Honours\) \(Co-op\)](#)

## **P**

[Philosophy \(BA\)](#)  
[Philosophy \(BA Honours\)](#)  
[Philosophy \(BA Honours Combined Program\)](#)  
[Physical Geography \(BSc Honours\)](#)  
[Physics \(BSc Honours Combined Program\)](#)  
[Physics and Computer Science \(BSc Honours\)](#)  
[Physics and High Technology \(BSc Honours\) \(Co-op\)](#)



[Physics and High Technology \(Medical Physics\)](#) (BSc Honours) (Co-op)  
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*See also [Chemistry and Physics](#)*  
[Political Science](#) (BA)  
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[Psychology](#) (BA Honours with Thesis Combined Program)  
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*See also [Behaviour, Cognition and Neuroscience](#)*

## **S**

[Social Work](#) (BSW Honours)  
[Social Work \(for University Graduates\)](#) (BSW Honours)  
[Social Work and Diaspora Studies](#) (BSW Honours)  
[Social Work and Women's Studies](#) (BSW Honours)  
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[Sociology](#) (BA Honours)  
[Sociology](#) (BA Honours Combined Program)  
[Sociology and Criminology](#) (BA Honours)  
[Social Justice](#) (BA Honours Combined Program)

## **V**

[Visual Arts](#) (BA)  
[Visual Arts](#) (BA Honours Combined Program)  
[Visual Arts](#) (BFA Honours)  
[Visual Arts and Art History](#) (BA Honours)  
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*See also [Art History](#)*

## **W**

[Women's Studies](#) (BA)  
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	<a href="#">Labour Studies</a>
	<a href="#">Languages, Literatures and Cultures</a> (includes Classical Studies, French Studies, Language and Logic, Modern Languages)
	<a href="#">Liberal and Professional Studies</a>
	<a href="#">Music</a>
	<a href="#">Philosophy</a>
	<a href="#">Political Science</a> (includes Diaspora Studies, International Relations and Development Studies)
	<a href="#">Psychology</a>
	<a href="#">Social Justice Studies</a>
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	<a href="#">Visual Arts</a>
	<a href="#">Women's Studies</a>
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## APPLICATION INFORMATION

### Application Procedures

Applicants for full-time, undergraduate studies must apply through the Ontario Universities' Application Centre (O.U.A.C.). Current Ontario secondary school students should contact their guidance office for application instructions. All others use the O.U.A.C. 105 application form, which is available at all Ontario universities or via the web at [www.ouac.on.ca](http://www.ouac.on.ca)

Applicants for part-time studies must use the University of Windsor application form, which is available via the web at [www.uwindsor.ca/ptapp](http://www.uwindsor.ca/ptapp)

### Application Deadlines

Candidates from outside continental North America must apply and submit all supporting documents to the Registrar's Office before March 1 for registration in the Fall term.

All other candidates must apply and submit all supporting documents as follows: August 1 for the Fall term; December 1 for the Winter term; and April 1 for the Summer term (Intersession and Summer Session).

Year III, Program II and, Program III Social Work - February 1

Year III Social Work and Diaspora Studies - February 1

Year III Social Work and Women's Studies - February 1

Year III Criminology - May 1

Year III Forensic Science - May 1

Year III Forensics and Criminology - May 1



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## ADMISSION REQUIREMENTS

The admission requirements described in this section define the minimum requirements for specific programs. Possession of the minimum requirements guarantees only that the application will be considered.

### ADMISSION REQUIREMENTS FOR STUDENTS COMING FROM ONTARIO SECONDARY SCHOOLS

### ADMISSION REQUIREMENTS FOR STUDENTS COMING FROM OTHER CANADIAN PROVINCES

### ADMISSION REQUIREMENTS FOR STUDENTS COMING FROM THE UNITED STATES

### ADMISSION REQUIREMENTS FOR STUDENTS COMING FROM OUTSIDE CANADA AND THE UNITED STATES

### ADMISSION REQUIREMENTS FOR STUDENTS WHO HAVE COMPLETED THE INTERNATIONAL BACCALAUREATE (IB) DIPLOMA PROGRAM

### ADMISSION REQUIREMENTS FOR MATURE STUDENTS

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## ENGLISH LANGUAGE PROFICIENCY

Applicants whose native language is not English must take one of the following English Proficiency Tests:

- 1) The British Council, University of Cambridge's International English Language Testing System (IELTS). Minimum required score of 6.5.
- 2) Carleton University's Canadian Academic English Language Assessment (CAEL). Minimum required score of 60.
- 3) English Proficiency Test administered by the English Language Institute of the University of Michigan (MELAB). Minimum required score of 88.
- 4) Test of English as a Foreign Language (T.O.E.F.L.). Minimum required T.O.E.F.L. score of 220 with a T.W.E. 4.5. (Reviewed annually)

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## REGISTRATION

### TIME AND PLACE OF REGISTRATION

Each student must register at the beginning of each term/session in the manner designated by the Registrar. Although the courses selected may be offered in different Faculties of the University, all students register through the Registrar's Office only.

Deadline dates for fee payment vary from term to term (see [Payment of Fees](#) and [Academic Dates](#)). A student who maintains an active course registration on the first day of term is obligated to make fee payments in accordance with the procedures, see [Payment of Fees](#). The non-payment policies will be applied to a student who has not made satisfactory fee arrangements with the cashier. (See [Non-Payment of Fees and Charges](#)).

### PROVISIONAL REGISTRATION

A student whose application is not complete by the regular registration period may be allowed to register provisionally. All required forms and documents must be submitted before the last day of late registration.

### WITHDRAWAL

1) Full-time undergraduate students who intend to withdraw completely from the University are required to undergo an interview, and complete the appropriate forms at the [Educational Development Centre](#).

The status of a student who withdraws from full-time studies is left to the decision of the Faculty in which the student is registered and will be reported to the student through the Office of the Registrar.

Part-time students who find it necessary to withdraw from a course or from the University may drop their courses over the web on the Student Self Service page or must notify the Registrar in person or by registered mail.

2) Students wishing to withdraw from a course or courses may do so over the web using the Student Self Service page or may use the "[Course Change Form](#)" which is available from the Office of the Registrar.

Students must withdraw from a course or courses within the withdrawal periods as indicated below. Specific dates vary from term to term and are indicated in the [Academic Dates](#). Withdrawal periods for courses in other sessions are normally set at approximately two-thirds of the course length. The withdrawal will be entered on the student's transcript as VW, (Voluntary Withdrawal), which is defined as "Withdrawal in good standing. No academic credit."

Students may not withdraw from a course or courses after the appropriate designated withdrawal period. After the voluntary withdrawal period for a course, students remain registered and will be assigned grades as appropriate.

A student who wishes to drop a course or courses after the appropriate withdrawal period based on medical or compassionate grounds should refer to "Appeals" or to Senate [Bylaw 51](#) which is available in the [Office of the Senate Secretariat](#) or via the web at [www.uwindsor.ca/senate](http://www.uwindsor.ca/senate).

3) The dates for withdrawal from courses which may result in partial tuition refunds vary from term to term. See, [Academic Dates](#) for appropriate dates and Withdrawal and Refund Policy. The [Cashier's Office](#) will make the appropriate adjustment of fees where applicable.

### WITHDRAWAL PERIODS

One-term course offered during Fall or Winter Term - within nine weeks of beginning of term. (Not including Study Week)

Two-term course - within four weeks of beginning of the second term.

Summer Term (Intersession/Summer Session)

Three week course - within two weeks of beginning of session.

Six week course - within four weeks of beginning of session.

Eight week course - within five weeks of beginning of session.

Twelve week course - within nine weeks of beginning of session.

### FLEXIBLE LEARNING

The University of Windsor offers a flexible approach to learning. Credit courses are offered daytime, evening classes, through distance education and partial distance education. Courses may be taken any of these ways or any combination of these ways.

### Campus day or evening classes

1. Classes on campus, three hours per week, spread over two or three days, or all on one evening, per week. Some courses have additional

lab hours.

**Distance - Independent Study**

2. No classes to attend; learn using print materials, CDs, web sites and online discussion with instructor and classmates

**Partial Distance - On-campus Classes + Independent Study**

3. Some classes or labs on campus, combined with independent study.

For program information, course offerings, fees, course textbooks and material information visit [www.uwindsor.ca/flexible](http://www.uwindsor.ca/flexible).

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## FEE REGULATIONS AND SCHEDULE

The University reserves the right to make changes without prior notice in the various fee schedules, as well as changes in rules and regulations and the revision or cancellation of particular courses and programs. The acceptance of fees does not necessarily imply approval of registration.

The following regulations apply to all students.

### PAYMENT OF FEES

Fees are due and payable before the commencement of regular term classes. (see, "[Academic Calendar](#)" for specific dates). As a convenience, students may pay their tuition fees at any time prior to the appropriate due date. It is the responsibility of the student to ensure that deadlines are met. It is the student's responsibility to be familiar with and understand all the University regulations contained in the Calendar; to understand how adding and dropping a course or courses, withdrawal, etc., affects a tuition fee account; and to ensure that tuition fees are paid in full without any notice from the University. Further, failure to receive a statement of account through the mail does not constitute a valid reason for nonpayment of fees. It is the responsibility of the student to check their fee account balance details and all available methods of payments on-line at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis). You will need your student number and PIN to access this information.

Cheques or other remittances must be made payable to The University of Windsor and must be received by the Cashier's Office prior to the due date. The student's name, identification number, address and telephone number should be recorded in the upper portion of the form of the remittance to ensure that the records are properly credited.

Students may pay their fees at any chartered bank in Canada by using a bank payment form available at the Cashier's Office. If a student has a grant and/or loan (e.g., OSAP), the loan must be assigned to the University to pay the fees. Any known difference between the amount of the award and the fees must be paid on or before the due date.

Students who are unable to complete payment of fees by the prescribed due date must arrange a fee deferment. Daily interest charges and academic sanctions (see "Interest Charges on Outstanding Accounts") may apply. Deferments are permitted under the following circumstances:

- (a) a student has evidence of having been awarded a Canada Student Loan or an Ontario Student Loan.
- (b) a student has evidence of having been awarded a scholarship, bursary or similar award, which may be used to pay the fees.

Students who are sponsored and require invoices to be sent for collection of fees must bring the appropriate documentation to the Cashiers' Office, 1st Floor, Chrysler Hall North.

*Notes:*

1) It is the responsibility of the student to accurately report his or her academic status and correctly calculate the amount owing to the University for fees and other charges. Where calculations are incorrect or full payment is not made, daily interest will be charged on balances outstanding after the payment due date. Students should check all calculations thoroughly.

Any errors in a student's academic program, level, and status in Canada must be reported to the Office of the Registrar. Any errors which result in the incorrect calculation of fees owing do not relieve the student of the responsibility for payment of these fees. Students will be responsible for any additional charges incurred as a result of changes in their academic profile for all terms that are applicable.

2) It is the responsibility of the student paying his or her fees by cheque to ensure that sufficient funds are available to cover any cheques made payable to the University of Windsor. Cheques returned by the student's bank for any reason will incur return cheque penalties plus other penalties.

3) Every effort is made to process payments in a timely manner; however, cheques are valid for a period of six months and may be cashed at any time during that period.

### OVERLOAD COURSE FEE

Students who enroll in a course overload as defined in "Maximum Course Load and Overload" will be assessed an overload course fee.

### INTEREST CHARGES ON OUTSTANDING ACCOUNTS

A daily interest charge will be calculated on all outstanding accounts. The interest will be compounded monthly.

A student who has failed to comply with the above regulations may have his or her registration cancelled as of the date on which the unpaid fees were due.

### NON-PAYMENT OF FEES AND CHARGES

Information concerning academic results of any student who has an overdue debt owing to the University shall be withheld until the debt is settled. This includes transcripts, tuition tax receipts and diplomas. Overdue accounts which are not settled in a timely manner may be referred to an external collection agency as deemed necessary by the Cashiers Office.

Students who are graduating and who have an outstanding debt will be permitted to attend Convocation, but they will not receive their diplomas until all their debts are settled.

Any student who has an overdue debt owing to the University may not be permitted to re-register until the debt is settled in full by cash, certified cheque, debit card, a money order, bank draft, electronic back transfer. Students who are settling an overdue account who pay with a personal cheque will have the hold remain on their account for 30 days (45 days for foreign cheques and drafts) to ensure the cheque clears the bank. The hold may be lifted upon presentation of a copy of the front and back of the cancelled cheque.

A student who has not made a satisfactory fee arrangement by the appropriate fee payment due date (see "Payment of Fees") may be subject to cancellation of his/her registration. Students will be notified by mail of any cancellations due to non-payment using the most recent address available. Appropriate charges will be assessed effective the date of cancellation.

*Note:* Non-payment of fees does not automatically result in the cancellation of registration in a course or courses.

Any student whose registration has been cancelled for default of payment is required to apply for reinstatement of registration at the Office of the Registrar. If the application is approved, a \$50.00 reinstatement fee is added to any other assessable charges.

Overdue accounts must be paid by cash, certified cheque, or money order.

Any student who has an unresolved grievance concerning fees or other charges may present an explanatory letter with appropriate official documentation (e.g. doctor's notes, etc.) to the Credit Manager, Cashier's Office.

#### **TUITION AND EDUCATION CREDIT CERTIFICATE (T2202A)**

A tuition and education tax certificate (T2202A) in a form acceptable to the Canadian Customs and Revenue Agency (CCRA) is available via the Student Information System at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis). This certificate is made available to all students whose accounts were paid in full by December 31 of the previous year. Student accounts that are not paid in full will show zero dollars for any semester which remains unpaid. If a student subsequently pays the semester, revised figures will be made available to them.

#### **SCHOLARSHIPS**

Undergraduate scholarships and other awards paid to students through the Finance Office are usually credited to the student's account on the basis of one half payable in each term. A refund cheque for any credit balance up to the value of all scholarships applied to the account for that term will be available to the student at the Cashiers' Office and Awards Office. This date will be posted on the Cashiers' website ([www.uwindsor.ca/awards](http://www.uwindsor.ca/awards)). In order to pick up these cheques in the Cashiers' Office, photo ID will be required, with no exceptions.

#### **WITHDRAWAL AND REFUND POLICY**

Graduate students who, for any reason, wish to withdraw from the University must notify, in writing, the Office of Graduate Studies, as otherwise resumption of graduate study at this University may be difficult or impossible.

Full-time undergraduate students who intend to withdraw completely from the University are required to undergo an interview and complete the appropriate forms at the Office of Student Development and Support.

Notice by telephone is not acceptable. Failure to attend classes does not constitute a withdrawal. Full refund will be given to part-time students enrolled in a course that has been cancelled by the University. Full and part-time students withdrawing from regular courses during the periods indicated below will be assessed fees as indicated.

<b>WITHDRAWAL DURING FALL OR WINTER TERM</b>	<b>FEE PAYABLE</b>
Week(s) One and Two	None
Week(s) Three through Nine	Partial Fees Payable
After Week Nine	Full fees for the appropriate program payable

Refunds resulting from withdrawals will be available on request.

#### **FREE TUITION FOR STUDENTS 60 YEARS OF AGE AND OVER**

The University of Windsor offers an incentive of free tuition and incidental fees for students sixty years of age and over. It is felt that people in this group might wish to avail themselves of the University facilities, not only for degree purposes, but perhaps for personal enrichment and the fuller utilization of their leisure time. If you feel that your needs can be served according to this program, we encourage and invite you to contact the Student Information Resource Centre. This applies to Canadian citizens or Permanent Residents of Canada only.

### SCHEDULE OF FEES

The Board of Governors reserves the right to make changes without notice in the published schedule of fees and charges if, in its opinion, circumstances so require. Any such changes will be reflected in the Self-Assessment form issued through the Cashier's Office before registration. It is the responsibility of the student to obtain this information.

The schedule of fees changes annually. Contact the Cashier's Office for information on the current schedule of fees, which outlines tuition, incidental, and other fees.

The following miscellaneous fees and charges are payable as incurred:

Undergraduate part-time studies application fee	\$40.00
Letter of Permission	\$27.00
Letter of Permission Revision Form	\$15.00/revision
Undergraduate change of course	\$5.00
Overload course	Part-time per course tuition fee
Special and supplemental exam (per course):	
Regular time, on campus	\$10.00
Outside regular time, on campus	\$20.00
Off campus	\$40.00
Evaluation of documents	\$40.00
Transcript of academic record	\$8.00
Duplicate T2202A: Current year	
First duplicate is free, each duplicate thereafter	\$3.00
Duplicate T2202A: Prior years	\$5.00
Late registration (full-time students)	\$30.00
Returned cheque charge	\$25.00/cheque
Registration reinstatement	\$50.00

Second Entry (Program Change) Revised Visa Letters	\$50.00/letter
Duplicate Graduation Eligibility Confirmation Letters	\$10.00/letter
Temporary Diplomas (issued prior to Convocation)	\$10.00/copy
Application to graduate fee	
Before deadline	\$25.00
After deadline	\$75.00
Duplicate Enrolment Certification/Attendance Letters	\$10.00/letter
Miscellaneous Letters	\$10.00/letter
Historical Document Search/Student Status Verification for Legal Offices	\$50.00/request

For information regarding residences, meal plan, residence deposits, deposit refund policies, and University houses, please contact the [Office of Residence Services](#), Room 49, Vanier Hall, University of Windsor, Windsor Ontario.



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## UNDERGRADUATE REGULATIONS

Students are responsible for becoming familiar and complying with the general regulations of the University as contained in this section. Additionally, students must be familiar and comply with the regulations of the Faculty in which they are enrolled. These particular requirements may be found in the program sections of this calendar.

Students also are directed to read the *Statement of Responsibility*, and the calendar of important dates and deadlines under *Academic Dates*.

*Click on the links provided for the detailed University policies and regulations pertaining to each heading:*

**Classification of Students** (including definitions for full-time student, part-time student, conditioned student, visiting student, audit student, special or non-degree student, and academic probation)

### Academic Advising

**Residency Requirements** (the number of courses that must be completed at the University of Windsor)

**Advanced Standing** (the granting of advanced standing reduces the total number of courses a student must complete for a degree)

**Letters of Permission** (enables students to take courses at another university for credit towards their University of Windsor degree)

### Additional Undergraduate Degrees

**Certificate Programs** (definition and policy)

### Definition of Courses and Sessions

### Course Content

**Course Equivalency** (permission to substitute one course for another)

### Repeating a Course

**Maximum Course Load and Overload** (course taken in addition to the prescribed semester or term load)

**Options** (courses in subjects other than the major subject)

**Minor** (provides a general knowledge of an area of study)

### Transferring to Another Program

**Combined Major** (majoring in two subject areas)

**Senior-Level Course Requirements** (minimum number of courses that must be completed at the 200-level or above)

**Standing Required for Continuation in Programs** (the minimum major and cumulative GPAs required of a student to continue in his/her program of study)

**Standing Required for Graduation** (the minimum major and cumulative GPAs required of a student to graduate)

### Introductory Statistics Courses

### Policy on Plagiarism

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## HONOUR ROLL

### President's Honour Roll

Students who maintain a cumulative average of 11.5 or higher will be recognized by the University as University scholars and will have a notation included on their transcript to this effect.

### Dean's Honour Roll

The following list the criteria for Dean's Honour Roll in each Faculty. Students who have met the criteria for Dean's Honour Roll in their Faculty will have a notation included on their transcript to this effect.

#### Inter-Faculty Programs

1. Must have completed 10 courses in the previous year,
2. Must be enrolled in an Inter-Faculty program on a full-time basis
3. Must have obtained a cumulative average of 11.0 or higher

#### Faculty of Arts and Social Science

To be eligible for this distinction, a student must have completed at least ten or more courses at the University of Windsor in the Faculty of Arts and Social Sciences and maintained a cumulative average of at least 11.0 (A-).

#### Faculty of Business Administration

1. Applies to undergraduate and graduate programs.
2. Must have completed 10 courses.
3. Must be enrolled in a business program on a full time basis in at least one of Intersession/Summer or Fall, AND in the Winter semester. Two exceptions apply. If the student is on two co-op work terms during this 12 month period the Fall semester prior to that period will be included. Also, if the Winter semester is their last term and they are not full time as they don't need to be in order to finish, their previous Fall semester is considered.
4. Must have a cumulative average of 11.5 or higher at the end of the Winter semester.

#### Faculty of Education

No Dean's Honour Roll.

#### Faculty of Engineering

For a student to be considered for the Engineering Dean's Honour Roll, she/he must be enrolled in an Engineering program, and must normally have:

1. successfully completed at least 10 courses which are required (or allowed as electives) in the Engineering program at the University of Windsor;
2. registered with full time status in his/her two most recent Engineering regular academic semesters;
3. successfully completed at least 10 Engineering program courses within her/his two most recent regular Engineering academic semesters; and
4. achieved a semester average of at least 11 on the transcript of her/his most recent full time enrolment semester.

#### Faculty of Graduate Studies

See appropriate Faculty related to your discipline for criteria, if any.

#### Faculty of Human Kinetics

To be eligible:

1. A student must be enrolled in 5 courses in a semester.
2. A student must have an 11.0 semester GPA or above on 5 or more courses.

The Human Kinetics Dean's Honour Roll designation is awarded on a semester basis.

#### Faculty of Law

No Dean's Honour Roll.

#### Faculty of Nursing

1. Students will be eligible for the Dean's Honour Roll once they have completed 10 courses while enrolled in the nursing program and are in good standing at the University of Windsor.
2. Having met the 10-course criteria, membership on the Dean's Honour Roll will be based on level of demonstrated achievement, *i.e.*, grade point average, in subsequent semesters.
3. The student must be enrolled full-time in the semester for which the grade point is calculated.
4. The student must have achieved a semester grade point of 11.0 as recorded on the transcript.

#### Faculty of Science

1. At least 10 courses completed at the University of Windsor.
2. Full time status in the fall and winter semesters.
3. Cumulative average of 11 in the most recent winter term.
4. Major average of 11 on the transcript of the most recent winter term. For General Science students replace the major average with the average over all science courses.

5. Registered in a Co-op term in Winter with grades in Fall at required levels.

### **CALCULATION OF AVERAGES**

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## GRADUATION

Registration in any program does not constitute an application for a degree, certificate, or diploma.

An official application for graduation must be filled out online at [www.uwindsor.ca/registrar](http://www.uwindsor.ca/registrar). The deadline date to submit an application to graduate is March 1 for Spring Convocation and August 1 for Fall Convocation.

In cases where credit is sought for work done elsewhere, all official transcripts or other documents as required by the Registrar's Office, but not already submitted, must be conveyed to the Registrar's Office no later than six weeks before Convocation. Failure to comply with these regulations will disqualify the student from graduation at the Convocation concerned (see [Standing Required for Graduation](#)).

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## ARTICULATION AGREEMENTS WITH COLLEGES OF APPLIED ARTS AND TECHNOLOGY

Formal articulation agreements, which are described below, are in place with Colleges of Applied Arts and Technology.

### ALL COLLEGES OF APPLIED ARTS AND TECHNOLOGY

1) **Bachelor of Business Studies (General) - Accounting Track:** Graduates of three-year diploma programs with an accounting major and a minimum cumulative average of B (70%) will receive twenty unspecified semester course equivalents towards this thirty-three course degree.

2) **Business Programs:** Graduates of three-year diploma programs in business from any College of Applied Arts and Technology may transfer to the Odette School of Business Administration at the University of Windsor subject to the following:

(a) Applicants will be granted a maximum of four terms' credit towards the Bachelor of Commerce program.

(b) A remedial course in Calculus may be necessary in order for transfer students to pursue the first-year Mathematics course required in the Bachelor of Commerce program.

Graduates of two-year diploma programs in business from any College of Applied Arts and Technology may transfer to the Odette School of Business Administration at the University of Windsor subject to the following:

(a) Applicants will be granted a maximum of two terms' credit towards the Bachelor of Commerce program.

(b) A remedial course in Calculus may be necessary in order for transfer students to pursue the first-year Mathematics course required in the Bachelor of Commerce program.

3) **General Arts and Science Diploma:** Graduates of the two-year Arts and Science diploma programs may receive transfer credit for up to ten courses. Transfer credit is awarded for approved courses with a minimum grade of B.

4) **Computer Science, or "Computer Programming", or "Information Technology" Diploma program** with a grade point average of 3.0 out of 4.0 or better (or a B grade or better), are eligible, within 10 years of graduation, to apply for admission to any degree program offered by the School of Computer Science at the University of Windsor under the provisions of this agreement, and may receive transfer credit for up to 15 semester courses.

5) **Developmental Services Worker Program:** Graduates of the Developmental Services Worker program who have a cumulative grade point average equivalent to B or better may receive credit equivalent to five courses (15.00 credits) consisting of non-major, introductory-level courses toward a B.A. or B.S.W. degree. Transfer credit is awarded for approved courses with a minimum grade of B.

6) **Child and Youth Worker:** Students who have completed the two-year Child and Youth Worker Diploma program with a cumulative average grade of B or better may receive up to ten university credits, provided they passed the college courses, for which transfer credit may be granted, with a grade of B- or better. Students will not be restricted to enrolling in a specific program. The course credits received will be applicable to any BA/BSW program in the Faculty of Arts and Social Sciences, and students would have to meet all regular requirements for the respective major of their choice.

7) **Early Childhood Education Program:** A student may enter a Bachelor of Arts or Bachelor of Social Work program after completing the two-year Diploma in Early Childhood Education. Depending upon the selected level and area of study, the student may receive up to ten course equivalents. Transfer credit is awarded for approved courses with a minimum grade of B.

8) **Medical Laboratory Science Program:** Graduates of the three-year Diploma in Medical Laboratory Science with a 2.7 G.P.A. (70% or equivalent) may receive the equivalent of ten semester course credits towards the Bachelor of Science degree in Biological Sciences, Biochemistry, or General Science.

9) **Diploma in Law and Security:** Graduates of the two-year Diploma in Law and Security program with a cumulative average grade of B or better may receive credit equivalent to five courses (15.00 credits) toward a B.A. or B.S.W. degree. Transfer credit is awarded for approved courses with a minimum grade of B- or better.

10) **Police Foundations Program:** A graduate of the two-year Diploma in Police Foundations program with a cumulative average grade of B or better and at least a grade of B- in specified College courses may receive up to one year (ten courses) of credit towards a B.A. or B.S.W. degree program in the Faculty of Arts and Social Sciences.

### FANSHAWE COLLEGE OF APPLIED ARTS AND TECHNOLOGY

1) **Fine Art Program:** Graduates of Fanshawe College who have completed a three-year Fine Art program may apply for transfer into an appropriate level of the Honours Bachelor of Fine Arts (Visual Arts) program. Transfer students must satisfy University regulations for transfer from CAATs and meet the academic requirements and standards of the B.F.A. program. Completion of the B.F.A. program in Visual Arts will normally require four terms of academic work or the equivalent at the University of Windsor. For further information, contact Visual Arts.

2) **Recreation and Leisure Services Program:** Students who have completed the two-year Recreation and Leisure Services Diploma Program at Fanshawe College with a cumulative average grade of B may receive up to ten Kinesiology

credits to be determined by the Faculty of Human Kinetics, provided they passed the respective college courses with a grade of B- or better.

#### **GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **Performing Arts Program:** Graduates of the George Brown College three-year Diploma program in Performing Arts with a cumulative average of B may gain admission to the third year of the B.F.A. in Acting program. A letter of recommendation from the Coordinating Director of the George Brown Theatre Program and a successful placement audition are also required. Completion of the B.F.A. will normally require four semesters of full-time study. Students may be required to take courses at the first or second year level if their audition indicates a need for such courses. Students who graduated from George Brown two or more years prior to application to the University of Windsor are subject to a placement audition before they can be covered by this agreement.

#### **GEORGIAN COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **Fine Arts Program:** Graduates of the three-year Diploma program in Fine Arts with a cumulative average of 2.7 (B) may gain admission to the third year of the B.F.A. Visual Arts program. Two letters of recommendation, a letter of intent and a successful portfolio are also required.

#### **HUMBER COLLEGE INSTITUTE OF TECHNOLOGY AND HIGHER LEARNING**

1) **Theatre Performance Program:** Graduates of the Humber College three-year Diploma program in Theatre Performance with a cumulative average of B may gain admission to the third year of the B.F.A. Acting program. A letter of recommendation from the Artistic Director of the Humber College Theatre Performance program and a successful placement audition are also required. Completion of the B.F.A. will normally require four semesters of full-time study. Students may be required to take courses at the first or second year level if their audition indicates a need for such courses. Students who graduated from Humber College two or more years prior to application to the University of Windsor are subject to a placement audition before they can be covered by this agreement.

#### **LAMBTON COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **Chemical Engineering Technology Program:** A student may enter a Bachelor of Science program after completing the three-year Diploma in Chemical Engineering Technology. Depending upon the selected level and area of study, the student may receive the equivalent of seventeen courses from Chemistry and Biochemistry.

2) **Environmental Technology Program:** A student may enter a Bachelor of Science program after completing the three-year Diploma in Environmental Technology. Depending upon the selected level and area of study, the student may receive the equivalent of nineteen courses from Chemistry and Biochemistry.

3) **Industrial Hygiene Technology Program:** A student may enter a Bachelor of Science program after completing the three-year Diploma in Industrial Hygiene Technology. Depending upon the selected level and area of study, the student may receive the equivalent of sixteen courses from Biological Sciences, and twenty courses from Chemistry and Biochemistry.

4) **Medical Laboratory Science Program:** Graduates of the three-year Diploma in Medical Laboratory Science with a 3.0 G.P.A. (75 percent or equivalent) may receive the equivalent of seventeen semester course credits towards the Bachelor of Science degree in Biological Sciences, Biochemistry, or General Science.

5) **Sports Facilities and Recreation Administration Program:** A student may enter a Bachelor of Human Kinetics (Leisure and Sport Management) program after completing the three-year Diploma in Sports Facilities and Recreation Administration with a cumulative average equivalent to a B or better. Students may receive up to the equivalent of fifteen course credits from the Kinesiology core curriculum and up to the equivalent of five course credits from the Leisure and Sport Management major.

6) **Graduates of the One-Year Pre-Health Science-Nursing Program:** A student with a minimum grade point average of 2.7 (B) and a minimum average of 2.7 (B) in BIO 100-5, BIO 220-5, CHM 110-6 and CHM 210-6, will be considered for admission to the B.Sc.N. program.

#### **MOHAWK COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **Medical Laboratory Science Program:** Graduates of the three-year Diploma in Medical Laboratory Technology with a 3.0 G.P.A. (75% or equivalent) may receive the equivalent of seventeen semester course credits towards the Bachelor of Science degree in Biological Sciences, Biochemistry, or General Science.

#### **ST. CLAIR COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **Journalism and New Media Program:** A student may enter a Bachelor of Arts after completing a two-year diploma with a cumulative average of 2.7 (B) and may receive the equivalent of ten semester courses from Communication Studies.

2) **Chemical Engineering Technology Program:** A student may enter a Bachelor of Science program after completing the three year Diploma in Chemical Engineering Technology. Depending upon the selected level and area of study, the student may receive the equivalent of seventeen semester course credits from Chemistry and Biochemistry.

3) **Medical Laboratory Science Program:** Graduates of the three-year Diploma in Medical Laboratory Science with a 3.0 G.P.A. (75% or equivalent) may receive the equivalent of seventeen semester course credits towards the Bachelor of

Science degree in Biological Sciences, Biochemistry, or General Science.

4) **Business Administration Information Systems:** Graduates of this program with a 3.0 G.P.A. or better, who have completed specific courses will be considered for admission to the General Bachelor of Computer Science on an individual basis, subject to the approval of the Dean of Science, and may receive up to fifteen semester course equivalents.

5) **International Trade Management Program:** Students who are admissible to the B.Comm. degree program and who have completed the Six Month Post-Graduate Certificate in International Trade Management with a cumulative G.P.A. of B or better, will be considered for advanced standing in five non-specific 200 level Business semester courses towards an Honours (four-year, 40 course) Bachelor of Commerce degree.

6) **Mechanical Engineering Technology - Automotive Product Design Program:** Graduates of the Mechanical Engineering Technology - Automotive Product Design program in the year 2001 or later, with a cumulative G.P.A. of B or better, with B grades in the fifteen core diploma program subjects, and with no grades below C on their College record, will be granted advanced standing in fifteen-seventeen semester courses towards the Bachelor of Applied Science in Mechanical Engineering (Automotive Engineering Option) degree.

7) **One-Year Pre-Health Science - Nursing Program:** Students at St. Clair College who successfully complete the one-year Pre-Health Science-Nursing certificate with a minimum overall grade point average of 2.7 (B) and a minimum science subject average of 2.7 (B) in GAS 11, GAS 21, GAS 11A and GAS 21A, will be considered for admission to the B.Sc.N. program.

8) **Dental Hygiene Diploma:** Students who have completed the two-year Diploma in Dental Hygiene with a cumulative average grade of B may receive up to five university credits for the following courses (or their equivalents), to apply toward any degree program in the Faculty of Arts and Social Sciences, provided they passed the respective college courses with a grade of B- or better: Communication Across Cultures, Anatomy and Physiology II, Ethics and Professionalism, Basic Psychology, Three additional Dental Hygiene courses with a B average.

#### **SHERIDAN COLLEGE INSTITUTE OF TECHNOLOGY AND ADVANCED LEARNING**

1) **Craft and Design Program:** Graduates of Sheridan College who have completed a three-year Craft and Design program may apply for transfer into an appropriate level of the Honours Bachelor of Fine Arts (Visual Arts) program. Transfer students must satisfy University regulations for transfer from CAATs and meet the academic requirements and standards of the B.F.A. program. Completion of the B.F.A. program in Visual Arts will normally require four terms of academic work or the equivalent at the University of Windsor. For further information, contact Visual Arts.

#### **SIR SANDFORD FLEMING COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

1) **One-Year General Arts and Science Program:** Students who have completed the one-year certificate in General Arts and Science from Sir Sandford Fleming with a cumulative average grade of B may receive up to five university course credits, provided they passed the respective college courses with a grade of B- or better. The course credits received will be applicable to any BA/BSW program in the Faculty of Arts and Social Sciences, and students would have to meet all regular requirements for the respective major of their choice.

#### **UNIVERSITY - TO - COLLEGE ARTICULATION AGREEMENTS WITH ST. CLAIR COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

University of Windsor graduates may obtain advanced standing into certain diploma programs offered by St. Clair College. More information on these articulation agreements is available at [www.stclaircollege.ca](http://www.stclaircollege.ca).

#### **FORMAL ARTICULATION AGREEMENTS WITH OTHER INSTITUTIONS**

##### **ONTARIO**

##### **Academy Of Learning**

Graduates of selected Academy of Learning diploma programs with a cumulative average of seventy-five percent or better may receive advanced standing (transfer credit) for specified courses in Computer Science and/or Business Administration provided that they qualify for admission under any of the policies listed under "Admission Requirements".

##### **McMaster University**

Students who have successfully completed the Labour Studies Certificate program will receive five 100-level unspecified course credits in the Faculty of Arts and Social Science programs at the University of Windsor. Students will still have to qualify for admission to the University based on the normal admission standards and students will be able to register in any program within the Faculty of Arts and Social Science.

##### **National Theatre School**

Graduates of the National Theatre School three-year Certificate program in Acting may gain admission to the third year of the B.F.A. in Acting program. A letter of recommendation from the Head of the National Theatre School and a successful placement audition are required. Completion of the B.F.A. will normally require four semesters of full-time study. Students may be required to take certain academic courses, as well as performance courses at the first or second year level if their audition indicates a need for such courses. Students who graduated from the National Theatre School two or more years prior to application to the University of Windsor are subject to a placement audition before they can be covered by this agreement.



## **BRUNEI**

### **University Brunei Darussalam (UBD)**

Honours Biology and Biotechnology program: Students will be admitted into this program at UBD with three A-levels or equivalent in Chemistry, Biology, and Mathematics with grades of C, or higher. Students completing specified UBD courses with a cumulative average of C+ (65%) or higher and who have completed the University of Windsor course 03-59-263-91 (Distance Education version of Organic Chemistry of Biomolecules) with a grade of B- or higher, will be eligible for transfer directly into the third year of the Honours Biology and Biotechnology program at the University of Windsor. Students must meet the University of Windsor's English language competency requirements and admission requirements before enrolling in 03-59-263-91. Successful transfer students will be considered to have all the prerequisites necessary for continuation in the program, and will receive credit for nineteen specified University of Windsor courses.

Honours Biochemistry and Biotechnology program: Students will be admitted into this program at UBD with three A-levels or equivalent in Chemistry, Biology, and Mathematics with grades of C, or higher. Students completing the specified UBD courses with a cumulative average of C+ (65%) or higher and who have completed the University of Windsor course 03-59-263-91 (Distance Education version of Organic Chemistry of Biomolecules) with a grade of B- or higher, will be eligible for transfer directly into the third year of the Biochemistry and Biotechnology program at the University of Windsor. Students must meet the University of Windsor's English language competency requirements and admission requirements before enrolling in 03-59-263-91. Successful transfer students will be considered to have all the prerequisites necessary for continuation in the program, and will receive credit for nineteen specified University of Windsor courses.

## **CHINA**

### **Anshan University of Science and Technology**

Anshan will accept students into a program leading to a degree granted by that institution. This program will be designed so as to provide the Anshan students with the option of transferring to the University of Windsor, to complete 10 or more University of Windsor credits and to be granted a University of Windsor Bachelor of Arts (Economics) or Bachelor of Arts (Honours Economics).

Students who complete at least one year of an undergraduate program at Anshan University of Science and Technology, with a G.P.A. of 7.0 (C+) or its equivalent at Anshan University, can apply for admission to an undergraduate program in Economics at the University of Windsor. Transferring students whose native language is not English must complete an English Proficiency Test administered by either the English Language Institute of the University of Michigan or, Test of English as a Foreign Language (T.O.E.F.L.).

## **HONG KONG**

### **Hong Kong Baptist University (HKBU)**

Students who have completed the two-year Associate Degree program of the College of International Education at HKBU with a cumulative average grade of B and who are otherwise admissible to the University of Windsor, including meeting the University of Windsor's English competency requirements, will receive University of Windsor credits, up to a total of twenty (20) semester courses, provided they passed the respective college courses with a grade of C- or better. Students will not be restricted to enrolling in a specific program but must present the necessary prerequisites for entry into the program of their choice.

## **UNITED STATES**

### **Broward Community College**

Students who have completed a minimum of 60 credit hours in either the Arts or Science streams of the Centre for American Education (CAE) program with a cumulative average grade of B and who are otherwise admissible to the University of Windsor, including meeting the University of Windsor's English competency requirements, will receive University of Windsor credits, up to a total of twenty semester courses, provided they passed the respective college courses with a grade of C- or better. Students will not be restricted to enrolling in a specific program but must present the necessary prerequisites for entry into the program of their choice.

### **Owens College**

A student who completes an Associate degree at Owens Community College with a grade point average of 2.7 or higher will be accepted by the University of Windsor with advanced standing in up to 20 semester courses in a Bachelor's degree program.

## **MALAYSIA**

### **Kolej Damansara Utama (KDU) College**

Students who have completed a minimum of 60 approved credit hours in either the Arts or Science stream of the School of American University Studies program at any campus of KDU (Malaysia) with a cumulative average grade of B and who are otherwise admissible to the University of Windsor, including meeting the University of Windsor's English competency requirements, will receive University of Windsor credits, up to a total of twenty semester courses, provided they passed the respective college courses with a grade of C- or better. Students will not be restricted to enrolling in a specific program but must present the necessary prerequisites for entry into the program of their choice.

### **Taylor's College**

A student who completes the American Degree Program at Taylor's College with a G.P.A. of 2.7 (B-) or higher will be accepted by the University of Windsor with advanced standing in up to 20 semester courses in an appropriate Bachelor's degree program. Excluded from this agreement is any provision for transfer from the Engineering Stream in the American

Degree Program to the Bachelor of Applied Science degree at the University of Windsor.

## **SINGAPORE**

### **Overseas Family College**

Students who have completed the two-year Diploma program at Overseas Family College with a cumulative average grade of B and who are otherwise admissible to the University of Windsor, including meeting English competency requirements, will receive University of Windsor credits, up to a total of twenty, provided they passed the respective college courses with a grade of C- or better. Students will not be restricted to enrolling in a specific program. The course credits received will be applicable to any Bachelor's program providing the degree requirements of that program allow it. Students will have to meet all regular requirements for the major of their choice.

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## STUDENT EXCHANGE PROGRAMS

The University of Windsor is a party to a number of multilateral and bilateral agreements with universities in other countries, which permit University of Windsor students to attend other institutions for periods up to one academic year as part of their degree program at Windsor. Normally, courses taken while participating under one of these agreements are treated as if they were taken at the University of Windsor, and do not require a [Letter of Permission](#).

Many agreements are open as to field of study, while others are intended for students in specific disciplines. In some (but not all) cases proficiency in a second language is required for participation. Other conditions of eligibility also vary from program to program.

Current agreements for exchange study are listed below, with field of study and language of instruction; for further information, or for an application form, contact [Windsor International](#) or go to [www.uwindsor.ca/exchange](http://www.uwindsor.ca/exchange).

### **Australia**

Deakin University - Open (preference to Human Kinetics) - *English*

Victoria University of Technology - Open - *English*

### **Canada**

Université du Québec à Montréal - French, Law - *French*

### **European Union**

EU/Canada Mobility (5 universities) - Social Justice - *English, Flemish, French, German, Spanish*

### **France**

IFI/ESC Rouen - Business - *English, French*

Ontario/Rhône-Alpes Exchange - (14 Universities) - Open - *French*

Université Jean Monnet - Open - *French*

University of Nice - Open - *French*

### **Germany**

Fachhochschule Bielefeld - Business - *German, English*

Ontario/Baden - Württemberg Exchange - (9 Universities) - Open - *German*

VWA - Studienakademie - Stuttgart (Business Co-op placements) - *German*

### **Ireland**

National University of Ireland, Maynooth - Open - *English*

### **Italy**

Università degli Studi di Udine - Open - *Italian*

### **Japan**

International Christian University - Open - *English, Japanese*

### **Mexico**

Autonomous University of Guadalajara - Open - *Spanish*

### **Netherlands**

Arnhem Business School - Business - *English*

University of Amsterdam - Philosophy - *English*

### **New Zealand**

Victoria University of Wellington - Open - *English*

### **North American Mobility Program**

Canada, Mexico, USA (4 Universities) - Accounting and Business - *English; Spanish*

### **People's Republic of China**

Hong Kong Polytechnic University - Business - *English*

### **Spain**

Universidad Publica de Navarra - Open - *Spanish*

### **Sweden**

Jönköping University - Business, Communication Studies, Engineering - *English*

University of Karlstad - Open - *English*

### **United Kingdom**

Keele University - Open - *English*

Southampton Institute - Open - *English*  
University of Derby - Open - *English*  
University of Leicester - Open - *English*  
University of Wales, Swansea - Open - *English*

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## **Academic Dates:**

*The following includes the academic dates for both undergraduate and graduate programs.*

### **2008 (January - August)**

January 2, 2008	University offices reopen.
January 7	All classes begin, day and evening. Field work begins in Social Work.
January 18	Last day of registration and change of course for Winter term courses, day and evening. Last day for full tuition refund.
January 25	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
February 1	Final day for application to Level 3 in Social Work.
February 1	Last day for reversal of incidental fees for course withdrawal.
February 15	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
February 18	Family Day Holiday. University offices closed.
February 25-29	Study week for all faculties except Consecutive Bachelor of Education. Field work continues in Social Work.
February 29	University offices closed.
March 1	Last day to file application for Spring graduation.
March 14	Last day to withdraw voluntarily from courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.
March 21	Good Friday (statutory holiday) (no classes)
March 23	Easter Sunday
	Deadline for recommending a PhD external examiner for students who plan

April 2	to graduate at Spring Convocation.
April 11	Last day of classes, day and evening, except Consecutive Bachelor of Education. Field work ends in Social Work.
April 14	Winter term final examinations begin, except Consecutive Bachelor of Education.
May 1	Interession, 12-week session, Summer Session and Summer Co-op fees are due.
May 12	Interession, 12-week session and Summer Co-op terms begin. Consolidation begins for the Faculty of Nursing.
May 16	Last day for late registration and change of course for Interession. Last day for full tuition refund for Interession courses. Last day for oral defense of dissertations, theses and major papers for Spring Convocation.
May 19	Victoria Day (statutory holiday) (no classes).
May 23	Last day for registration and change of course, 12-week session and Summer Co-op. Last day for full tuition refund for 12-week session and Summer Co-op courses. Last day for reversal of incidental fees for 6-week Interession courses.
May 26	Last day to deposit dissertations, theses and major papers for Spring Convocation.  Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
June 6	Last day to withdraw voluntarily from Interession courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Interession courses. Last day for reversal of incidental fees for 12-week and Summer Co-op courses.
June 11, 12, 13	Spring Convocation.
June 20	Interession classes end.
June 23	Interession examinations begin. Mid-term break for 12-week and Summer Co-op.

June 27	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
July 1	Observance of Canada Day. University offices closed.
July 2	Summer Session classes begin.
July 8	Last day for Summer Session late registration and course changes. Last day for full tuition refund for Summer Session courses.
July 22	Last day to withdraw voluntarily from 12-week session and Summer Co-op term courses. Last day to receive partial refund for 12-week session and Summer Co-op term courses. Last date for reversal of incidentals for 6-week Summer courses.
July 29	Last day to withdraw voluntarily from Summer Session courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Summer Session courses.
August 1	Last day to file application for Fall graduation.
August 4	Civic Holiday (statutory holiday) (no classes)
August 12	Last day of classes for Summer Session, 12-week session, and Summer Co-op term.
August 15	Summer Session and 12-week Session examinations begin.
August 15	Deadline for recommending an external examiner for an oral defense on the last day for Fall Convocation.
August 15, 2008	Fall term fees are due and payable.

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## Academic Dates:

*The following includes the academic dates for both undergraduate and graduate programs.*

### 2007 (January - December)

January 3, 2007	University offices reopen.
January 8	All classes begin, day and evening. Field work begins in Social Work.
January 19	Last day of registration and change of course for Winter term courses, day and evening. Last day for full tuition refund.
January 26	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
February 1	Final day for application to Level 3 in Social Work.
February 2	Last day for reversal of incidental fees for course withdrawal.
February 16	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
March 1	Last day to file application for Spring graduation.
February 26 to March 2	Study week for all faculties except Consecutive Bachelor of Education. Field work continues in Social Work.
March 2	University offices closed.
March 16	Last day to withdraw voluntarily from courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.
March 30	Deadline for recommending an external examiner for a Ph.D. oral defense on the last day for Spring Convocation.
April 6	Good Friday (statutory holiday) (no classes)
April 8	Easter Sunday
	Last day of classes, day and evening, except Consecutive Bachelor of Education. Field work



April 13	ends in Social Work.
April 16	Winter term final examinations begin, except Consecutive Bachelor of Education.
May 1	Intersession, 12-week session, Summer Session and Summer Co-op fees are due.
May 14	Intersession, 12-week session and Summer Co-op terms begin. Consolidation begins for the Faculty of Nursing.
May 18	Last day for late registration and change of course for Intersession. Last day for full tuition refund for Intersession courses.
May 21	Victoria Day (statutory holiday) (no classes).
May 23	Last day for oral defense of dissertations, theses and major papers for Spring Convocation.
May 25	Last day for registration and change of course, 12-week session and Summer Co-op. Last day for full tuition refund for 12-week session and Summer Co-op courses. Last day for reversal of incidental fees for 6-week Intersession courses.
May 30	Last day to deposit dissertations, theses and major papers for Spring Convocation.
May 30	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
June 8	Last day to withdraw voluntarily from Intersession courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Intersession courses. Last day for reversal of incidental fees for 12-week and Summer Co-op courses.
June 13-15	Spring Convocation.
June 22	Intersession classes end.
June 25	Intersession examinations begin. Mid-term break for 12-week and Summer Co-op.
June 29	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
July 2	Observance of Canada Day. University offices closed.

July 3	Summer Session classes begin.
July 9	Last day for Summer Session late registration and course changes. Last day for full tuition refund for Summer Session courses.
July 23	Last day to withdraw voluntarily from 12-week session and Summer Co-op term courses. Last day to receive partial refund for 12-week session and Summer Co-op term courses. Last date for reversal of incidentals for 6-week Summer courses.
July 30	Last day to withdraw voluntarily from Summer Session courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Summer Session courses.
August 1	Last day to file application for Fall graduation.
August 6	Civic Holiday (statutory holiday) (no classes)
August 10	Last day of classes for Summer Session, 12-week session, and Summer Co-op term.
August 10	Deadline for recommending an external examiner for an oral defense on the last day for Fall Convocation.
August 13	Summer Session and 12_week Session examinations begin.
August 15	Fall term fees are due and payable.
September 3	Labour Day (statutory holiday).
September 4	Classes begin in Faculty of Education.
September 4	Registration for First Year Law students. Classes begin in Second and Third Year Law.
September 5-7	Orientation for First Year Law
September 6	All classes begin, day and evening, except Law and Consecutive Bachelor of Education. Field work begins in Social Work.
September 10	Classes begin in First Year Law.
September 14	Last day for the oral defense of dissertations, theses and major papers for Fall Convocation.

September 18	Last day for course changes in Law.
September 19	Last day for late registration and change of course for Fall term day and evening, except Law. Last day for full tuition refund.
September 21	Last day to deposit dissertations, theses and major papers for Fall Convocation.
October 3	Last day for reversal of incidental fees for course withdrawal.
October 5	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
October 8	Thanksgiving Day (statutory holiday) (no classes).
October 20	Fall Convocation.
October 26	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
November 7	Last day to withdraw voluntarily from courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.
December 3	Last day of classes, Law.
December 5	Last day classes, day and evening, except Law. Fall term field work ends in Social Work.
December 6	Examinations begin in Law.
December 8	Fall term examinations begin except Law and Consecutive Bachelor of Education.
December 17	Winter term fees are due and payable.
December 22 to January 2, 2008	University offices closed for December Holiday recess.

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The first part refers to the Faculty, the second part to the subject area, the third to the level of the course. Thus, the course 02-46-220 would be a course in the Faculty of Arts and Social Sciences (02-), in the subject area of Psychology (46-) and would be at a level that places it among courses in the 200 series. The series 100, 200, 300, and 400 numbers are intended to indicate progressively more demanding content and correspondingly increasing background and competence on the part of the students enrolled in the course.</p> <p>Numbers in the range 100-199 are ordinarily used for the introductory courses in most disciplines. Within the range, however, a lower number does not necessarily signify more elementary content.</p> <p>It is important that students planning their courses have clearly in mind the significance of these numbers so that they may guard against undertaking course work at levels for which they are insufficiently prepared. A number of courses have stated prerequisites which are prior requirements for entry to a course. 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## STATEMENT OF RESPONSIBILITY OF THE UNIVERSITY

1. The content of this Calendar is provided for the general guidance of the student and is not intended to make any contractual commitments therefor. The Calendar is accurate at the time of printing, but programs, courses, staffing, etc. are subject to change from time to time as deemed appropriate by the University of Windsor in order to fulfill its role and mission, or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and, unless specified otherwise, are effective when made. The official University of Windsor academic calendars are: the Undergraduate Web Calendar, the Graduate Web Calendar, and the Faculty of Law Calendar.

2. This Calendar represents the University of Windsor's best judgment and projection of the course of conduct of the University of Windsor during the periods addressed herein. It is subject to change due to forces beyond the University of Windsor's control or as deemed necessary by the University of Windsor in order to fulfill its educational objectives.

3. Advisors are provided to assist students in planning their academic programs. Advisors are not authorized to change established policy of the University of Windsor. Students are solely responsible for assuring that their academic programs comply with the policies of the University of Windsor. Any advice which is at variance with established policy must be confirmed by the appropriate Dean's Office.

4. Any tuition fees and/or other charges described herein are good faith projections for the academic year. They are, however, subject to change from one academic term to the next as deemed necessary by the University of Windsor in order to meet its financial commitments and to fulfill its role and mission.

5. There are other fees and charges which are attendant upon a student's matriculation at the University of Windsor. These fees or charges may be determined by contacting the University offices which administer the programs or activities in which the student intends to enroll or engage.

6. The University of Windsor reserves the right to terminate or modify program requirements, content, and the sequence of program offerings from term to term for educational reasons which it deems sufficient to warrant such actions.

Further, the University of Windsor reserves the right to terminate programs from term to term for financial or other reasons which it determines warrant such action. The content, schedule, requirements and means of presentation of courses may be changed at any time by the University of Windsor for educational reasons which it determines are sufficient to warrant such action. Programs, services, or other activities of the University of Windsor may be terminated at any time due to reasons beyond the control of the University of Windsor.

7. The course descriptions herein are based upon reasonable projections of faculty and faculty availability and appropriate curriculum considerations. The matters described are subject to change based upon changes in circumstances upon which these projections were based and as deemed necessary by the University of Windsor to fulfill its role and mission.

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<a href="#">Notification of Disclosure of Personal Information to Statistics Canada</a>	<p>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.</p> <p>It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrollment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrollment information, previous education, and labour force activity.</p> <p>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.</p> <p>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.</p> <p>Further information on the use of this information can be obtained from Statistics' Canada's web site: <a href="http://www.statcan.ca">http://www.statcan.ca</a> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.</p>

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## GLOSSARY

This glossary explains some terms which are used frequently throughout this Calendar. It is intended as a quick-reference guide and may not necessarily offer the complete, official definitions and explanations as they apply to the University's programs and the administration of its regulations.

**Antirequisite** - A course or other level of attainment which, if already successfully completed, does not permit registration for credit in another course, and which cannot be taken for credit concurrently with that other course.

**Attempt** - Generally, any course for which a final grade has been assigned, including "WF" - Withdrew Failing. Failures which are repeated and for which credit is subsequently earned may or may not be considered as attempts, depending upon individual faculty regulations. If a student transfers from one program to another, not all previous attempts necessarily will be counted as attempts within the student's new program.

**Bachelor's Degree (Baccalaureate)** - The first university degree, for which a student follows a specific undergraduate program (e.g., B.A.- Bachelor of Arts).

**Certificate** - At the undergraduate level, a program consisting of eight to twelve one-term course equivalents in a specialized area(s) of study.

**Corequisite** - A course which must be taken concurrently with another course which lists it as a corequisite.

**Course** - A unit of study identified by a course title and a unique course number. Unless otherwise specified, the term "course" refers to a one-term, 3.0 credit course offering.

**Two-Term Course** - A course taught over two terms, usually the Fall and Winter terms. A two-term course normally carries twice the credit value of a one-term course, or 6.0 credits.

**Half Course** - A course having a value of 1.5 credits. Half courses may be offered for fewer contact hours per week over an entire term, or may be concentrated in either the first or the second half of a term.

**Credit** - A unit of academic value earned within a particular program. A credit value of 3.0 normally is assigned to a one-term (13-week) course. A two-term course, therefore, would have a credit value of 6.0; a half-course 1.5.

Other credit values may be assigned. Some courses may be taken for varying amounts of credit within a specific range (e.g. 2.0 to 9.0 credits); other courses may be offered for alternate credit values (e.g., 3.0 or 6.0 credits).

Credit values are used in the calculation of averages for academic standing and in the determination of the student's year or level within a specific program. (See also "Weight").

**Cross-Listed Courses** - Courses which are listed under two different numbers in two different subject areas. Cross-listed courses may be taken in either subject area, but credit may be earned in only one course.

**Cumulative Average** - An average which is based upon all courses counted as attempts within a student's current program.

**Diploma** - At the undergraduate level, a program of study less extensive than a degree program, but requiring more courses than a certificate program.

**Full-Time Student** - A student who is registered in four or more undergraduate courses in a term. (See 2.4.1.)

**Linked Courses** - Credit may not be allocated to certain courses until a subsequent course is also successfully completed. Such "linking" of courses will be noted in the course descriptions.

**Major** - A formal, specific concentration of courses within a subject area as defined by its degree program(s).

**Major Average** - An average based upon courses attempted within the student's major as defined by the student's degree program.

**Option** - Generally, a non-major course not specifically required in a program, but for which credit may be earned towards the degree, certificate, or diploma offered in that program.

Specific restrictions may apply in some programs.

**Part-Time Student** - A student who is registered in less than four undergraduate courses in a term (i.e., less than 12.0 credits). (See 2.4.1.)

**Prerequisite** - A course for which credit must have been earned prior to registration in another course which lists it as a prerequisite. ("Consent of Instructor" may be listed as an alternative to, or in addition to a given course prerequisite.)

**Program** - A combination of courses in a subject area (or areas) which fulfills the requirements for a degree, certificate, or



diploma.

**Program Approval** - For students in certain programs, consulting with and obtaining the signed approval of course selections by a faculty advisor may be required as part of the registration process.

**Registration** - The process of selecting courses, obtaining faculty approval for course selections where necessary, and making the appropriate arrangements with the University to pay the required fees.

**Required Course** - A course for which credit must be earned in a student's program.

**Semester** - Same as "Term" (see below).

**Standing Required** - Individual faculties set out specific requirements which students must meet in order to continue in their programs. These requirements normally include the maintenance of specific minimum cumulative and major averages, and also place certain restrictions upon the number of courses a student is permitted to have failed. Progress is reviewed at the end of each term.

**Term** - An academic period of thirteen weeks' duration. The Fall term extends from September to December; the Winter term from January to April. Intersession, which extends for six weeks from mid-May through the end of June, and Summer Session, which extends from the beginning of July to mid-August are considered together as a single term.

**Transcript** - A document issued by the Office of the Registrar which records all aspects of a student's registrations and grades obtained at the University. An "official" transcript is one which bears the official seal of the University and which is sent directly to another institution or official of an organization. "Unofficial" transcripts also may be issued to the student.

**Withdrawal** - A formal procedure set out within the regulations of the University for withdrawing from an individual course(s), or from the University entirely.

**Weight** - For students registered in the Faculty of Engineering, the calculation of averages is based upon a weighting factor. The weight of an individual course is equal to the number of lecture hours per week, plus one-half of the number of laboratory and/or tutorial hours per week.

**Year (or Semester)** - Attaining a particular Year or Semester level depends upon earning credit for a specific number of courses. The number of courses normally taken in one term/semester determines the Semester level; the number of courses normally taken in a program over both the Fall and Winter terms of a "regular" academic year would determine the Year level. In some programs, the attainment of a specific level also may reflect the earning of credits in a particular group or sequence of courses.

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<a href="#">Programs (Listed by Faculty)</a>		
<a href="#">Programs (Listed by Department)</a>	January 8	All classes begin, day and evening. Field work begins in Social Work.
<a href="#">Certificate Programs</a>		
<a href="#">Minors</a>	January 19	Last day of registration and change of course for Winter term courses, day and evening. Last day for full tuition refund.
<a href="#">Courses</a>		
<a href="#">Alphabetical by Department</a>		
<a href="#">Instructors</a>	January 26	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
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<a href="#">Admission Information</a>		
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<a href="#">Admission Requirements</a>		
<a href="#">English Language Proficiency</a>	February 2	Last day for reversal of incidental fees for course withdrawal.
<a href="#">Registration</a>		
<a href="#">Fee Regulations and Schedule</a>	February 16	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
<a href="#">Academic Regulations</a>		
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<a href="#">Honour Roll Criteria</a>		
<a href="#">Graduation</a>	February 26 to March 2	Study week for all faculties except Consecutive Bachelor of Education. Field work continues in Social Work.
<a href="#">Articulations and Exchanges</a>		
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<a href="#">Student Exchange Programs</a>	March 2	University offices closed.
<a href="#">Academic Dates</a>		
<a href="#">2008 (January - August)</a>		
<a href="#">2007 (January - December)</a>	March 16	Last day to withdraw voluntarily from courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.
<a href="#">Calendars</a>		
<a href="#">Graduate Calendar</a>		
<a href="#">Previous Calendars</a>	March 30	Deadline for recommending an external examiner for a Ph.D. oral defense on the last day for Spring Convocation.
<a href="#">Course Numbering System</a>		
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<a href="#">Faculty and Departments</a>	April 6	Good Friday (statutory holiday) (no classes)
<a href="#">University Administration</a>		
<a href="#">Statement of Responsibility</a>	April 8	Easter Sunday
<a href="#">Statistics Canada Disclaimer</a>		
<a href="#">Main Senate Webpage</a>		Last day of classes, day and evening, except Consecutive Bachelor of Education. Field work

April 13	ends in Social Work.
April 16	Winter term final examinations begin, except Consecutive Bachelor of Education.
May 1	Intersession, 12-week session, Summer Session and Summer Co-op fees are due.
May 14	Intersession, 12-week session and Summer Co-op terms begin. Consolidation begins for the Faculty of Nursing.
May 18	Last day for late registration and change of course for Intersession. Last day for full tuition refund for Intersession courses.
May 21	Victoria Day (statutory holiday) (no classes).
May 23	Last day for oral defense of dissertations, theses and major papers for Spring Convocation.
May 25	Last day for registration and change of course, 12-week session and Summer Co-op. Last day for full tuition refund for 12-week session and Summer Co-op courses. Last day for reversal of incidental fees for 6-week Intersession courses.
May 30	Last day to deposit dissertations, theses and major papers for Spring Convocation.
May 30	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
June 8	Last day to withdraw voluntarily from Intersession courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Intersession courses. Last day for reversal of incidental fees for 12-week and Summer Co-op courses.
June 13-15	Spring Convocation.
June 22	Intersession classes end.
June 25	Intersession examinations begin. Mid-term break for 12-week and Summer Co-op.
June 29	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
July 2	Observance of Canada Day. University offices closed.

July 3	Summer Session classes begin.
July 9	Last day for Summer Session late registration and course changes. Last day for full tuition refund for Summer Session courses.
July 23	Last day to withdraw voluntarily from 12-week session and Summer Co-op term courses. Last day to receive partial refund for 12-week session and Summer Co-op term courses. Last date for reversal of incidentals for 6-week Summer courses.
July 30	Last day to withdraw voluntarily from Summer Session courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund for Summer Session courses.
August 1	Last day to file application for Fall graduation.
August 6	Civic Holiday (statutory holiday) (no classes)
August 10	Last day of classes for Summer Session, 12-week session, and Summer Co-op term.
August 10	Deadline for recommending an external examiner for an oral defense on the last day for Fall Convocation.
August 13	Summer Session and 12_week Session examinations begin.
August 15	Fall term fees are due and payable.
September 3	Labour Day (statutory holiday).
September 4	Classes begin in Faculty of Education.
September 4	Registration for First Year Law students. Classes begin in Second and Third Year Law.
September 5-7	Orientation for First Year Law
September 6	All classes begin, day and evening, except Law and Consecutive Bachelor of Education. Field work begins in Social Work.
September 10	Classes begin in First Year Law.
September 14	Last day for the oral defense of dissertations, theses and major papers for Fall Convocation.

September 18	Last day for course changes in Law.
September 19	Last day for late registration and change of course for Fall term day and evening, except Law. Last day for full tuition refund.
September 21	Last day to deposit dissertations, theses and major papers for Fall Convocation.
October 3	Last day for reversal of incidental fees for course withdrawal.
October 5	Last day for completion of all requirements for graduate degrees under Phase I (100% tuition refund).
October 8	Thanksgiving Day (statutory holiday) (no classes).
October 20	Fall Convocation.
October 26	Last day for completion of all requirements for graduate degrees under Phase II (50% tuition refund).
November 7	Last day to withdraw voluntarily from courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.
December 3	Last day of classes, Law.
December 5	Last day classes, day and evening, except Law. Fall term field work ends in Social Work.
December 6	Examinations begin in Law.
December 8	Fall term examinations begin except Law and Consecutive Bachelor of Education.
December 17	Winter term fees are due and payable.
December 22 to January 2, 2008	University offices closed for December Holiday recess.

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## GRADUATION

Registration in any program does not constitute an application for a degree, certificate, or diploma.

An official application for graduation must be filled out online at [www.uwindsor.ca/registrar](http://www.uwindsor.ca/registrar). The deadline date to submit an application to graduate is March 1 for Spring Convocation and August 1 for Fall Convocation.

In cases where credit is sought for work done elsewhere, all official transcripts or other documents as required by the Registrar's Office, but not already submitted, must be conveyed to the Registrar's Office no later than six weeks before Convocation. Failure to comply with these regulations will disqualify the student from graduation at the Convocation concerned (see [Standing Required for Graduation](#)).



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## SOCIOLOGY AND ANTHROPOLOGY

### General Anthropology

*Total courses:* thirty.

*Major requirements:* twelve courses, including 49-111, 49-112, four 200-level courses in Anthropology, and six additional Anthropology courses. At least four Anthropology courses must be at or above the 300 level.

*Other requirements:*

(a) two courses from Arts or Languages;

(b) two courses from Science;

(c) four courses from areas of study outside of Social Sciences;

(d) four courses from any area of study, including Anthropology (49-) and any Sociology (48-) courses which are cross-listed with Anthropology;

(e) six courses from any area of study, excluding Anthropology (49-) and any Sociology (48-) courses which are cross-listed with Anthropology.

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## SOCIOLOGY AND ANTHROPOLOGY

### Honours Anthropology

*Major Requirements:* sixteen courses, as given below:

- 49-111, 49-112, 49-213, 49-355, 49-356, 49-415
- One of 49-418 or 49-412
- Two 200 level courses in Anthropology
- Three 300 level courses in Anthropology
- Two of 48/49-240, 48/49-241, 48/49-333, 48/49-352
- Two other courses in Anthropology

*Option Requirements:*

- two courses from Arts
- two courses from Languages or Science
- two courses from any area of study outside Social Science

*Other requirements:*

- 02-250
- seven courses from any area of study, including Anthropology and any Sociology courses that are cross-listed with Anthropology
- ten courses from any area of study, excluding Anthropology and any Sociology courses that are cross-listed with Anthropology

*Note:* Anthropology Honours students interested in graduate studies in Sociology should include the following courses in their program: 48-302, 48-308, plus one course from 48-403, 48-404, 48-405, 48-406, or its equivalent.

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## SOCIOLOGY AND ANTHROPOLOGY

### Combined Honours Anthropology Programs

*Anthropology:* twelve courses, including 49-111, 49-112, 49-213, 49-355, 49-356, 49-415 plus either 49-418 or 49-447; plus five other Anthropology courses (49-) at the 200 level or above.

*Other subject:* as prescribed by the other major

*Option Requirements:*

a) two courses from Arts

b) two courses from Languages or Science

c) two courses from any area of study outside Social Science

*Other requirements:*

a) 02-250

b) additional options (if required) to a total of forty

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## VISUAL ARTS

### General B.A. in Art History

*Total courses:* thirty.

*Major requirements:* sixteen courses, including 28-150, 28-214 and 28-215, plus nine other Art History courses chosen in consultation with a program advisor in Visual Arts, plus 27-105, 27-106, 27-107 and 27-108.

*Option requirements:* six courses including  
(a) two courses from Social Sciences;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements:*  
(a) 07-202, 07-203;  
(b) six more courses from any area of study, excluding Visual Arts.

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## INTER-FACULTY PROGRAMS

### Honours Bachelor of Arts and Science (BAS)

The Bachelor of Arts and Science program provides substantial education in the disciplines of both arts and sciences, and it puts an emphasis on critical thinking and argument. Throughout, students will take course designed to foster the skills of inquiry and, in the third and fourth years, they will take courses in the methods of inquiry and applied inquiry. In addition to developing students' research skills and involving them with topics of public concern, these courses develop their abilities and confidence as writers and speakers.

*Total courses:* forty.

*Major Core requirements:* A set of core courses that straddle the Arts and Sciences; a Major Concentration of 12 courses from a discipline in the Faculties of Arts/Social Sciences or Science, as determined by each Department; a Minor concentration of 6 courses from a discipline in the other Faculty.

*Other requirements:*

- At least 15 courses from each of the Faculty of Arts and Social Sciences and the Faculty of Science.
- Specific course requirements as specified in the Program Sequencing, below.
- To continue in the program, and to receive the Honours BAS degree, students must maintain an Honours (B-) average in all courses and in their Major concentration.
- It is intended that students obtain all required courses within any four-year sequence.

*Major concentration requirements will have the following structure:*

*Twelve (12) courses as follows:*

- no more than two (2) 100-level courses in the Major subject;
- at least four (4) 300-level or 400-level courses in the Major subject.

*Minor concentration requirements will have the following structure:*

*Six (6) courses as follows:*

- no more than two (2) 100-level courses in the Minor subject;
- at least one (1) 300-level or 400-level course in the Minor subject.

When a requirement in the Major or Minor Concentration is taken as part of the core BAS program course requirements, another course must be selected from within the area of concentration and substituted with the approval of the Coordinator of Inter-Faculty programs. Similarly, when a requirement in the Major Concentration is taken as part of the course requirements in the Minor Concentration, another course must be selected from within the area of Major Concentration and substituted with the approval of the Coordinator of Inter-Faculty programs.

*Required courses for Major and Minor concentrations are listed in the relevant program section of the calendar.*

### PROGRAM SEQUENCING

Students must select a Major and a Minor Concentration at the time of registration. Consultation is available from the Director of the program. The selection of electives in Years 2, 3 and 4 must satisfy the requirements for the Major and the Minor concentrations, and the general program requirement that students must complete at least 15 courses in each of the two Faculties.

**Year 1:** 11-161, 34-162, 43-102, 62-130 (or 62-140 and 62-141 if requirement for major or minor concentration), two courses selected as needed to satisfy major or minor requirements in Arts and Social Science, four courses consisting of any two of the following pairs: 55-140 and 55-141, 62-140 and 62-141, 59-140 and 59-141, 60-140 and 60-141, 61-140 and 61-141, 64-140 and 64-141, 41-110 and 41-111.

**Year 2:** one of 26-120, 26-260, 26-270, 29-141, or 07-234; one of 24-111, 24-130, 24-230, 24-330, 24-335, 26-105, 28-214, 32-106, 32-107; one of 53-220, 64-203, 61-213, 61-214, 66-201, 59-201; 65-205 or 55-208; plus any six additional courses, at least 2 from each of the Faculty of Arts and Social Sciences and the Faculty of Science, and consistent with satisfying the requirements for the Major and the Minor concentrations.

**Year 3:** 34-221, 56-310, 56-301; Plus any seven additional courses, at least 2 from each of the Faculty of Arts and Social Sciences and the Faculty of Science, and consistent with satisfying the requirements for the Major and the Minor concentrations.

**Year 4:** \*\*56-401, 56-421, 56-410, 56-420 (or other departmental requirement for the student's Major concentration); plus any six additional courses as needed to satisfying the remaining requirements for the Major concentration, the Minor concentration and/or the Program.

\*\*to be introduced.

## Major and Minor Concentrations

### Faculty of Arts and Social Sciences

Anthropology  
Classical Studies  
Modern Languages, Literatures and Civilizations  
Communication Studies  
Criminology  
Dramatic Art  
English, Language, Literature and Creative Writing  
French Studies  
History  
Music  
Philosophy  
Political Science  
Psychology  
Sociology  
Visual Arts  
Women's Studies

### Faculty of Science

Biochemistry  
Biological Sciences  
Chemistry  
Computer Science  
Earth and Environmental Sciences  
Economics  
Mathematics and Statistics  
Physics

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## BIOLOGICAL SCIENCES / PSYCHOLOGY

### B.Sc. Honours in Behaviour, Cognition and Neuroscience

Neuroscience is a strong and growing field that strives to understand brain function at the molecular, behavioural and cognitive levels. This interdisciplinary program comprises required courses primarily from the departments of Biological Sciences and Psychology. Students also participate in bi-weekly research colloquia. In their final year, students prepare a research-based thesis in behaviour, cognition or neuroscience. Students must maintain a G.P.A. of 8.0 or higher in Biology and Psychology courses. Entry to the fourth year thesis course, 46-496, requires a psychology average of 9.0 for Behaviour, Cognition and Neuroscience majors.

*Total courses:* forty.

*Major requirements - Biological Sciences:* 55-140, 55-141, 55-210, 55-211, 55-213, 55-258, 55-341, 55-425, 55-485; plus three additional biology courses.

*Major requirements - Psychology:* 46-115, 46-116, 46-223, 46-256 (or 46-336), 46-313, 46-322 (or 46-323), 46-353, 46-335, 46-358 and 46-457.

*Major requirements - Biological Sciences or Psychology:* one of 55-320, 46-229 (or 46-230); and an honours thesis in the area of behavioural or cognitive neuroscience chosen from 55-420, or 46-496 and 46-497, or 59-410.

*Other requirements:*

(a) 65-205 (or 02-250);

(b) one pair of both 64-130 and 64-131, or both 64-140 and 64-141, or both 60-104 (or 60-106) and 60-205, or both 61-140 and 61-141, or both 67-100 and 67-102

(c) 59-140, 59-141, 59-230, 59-261;

(d) four courses from Arts and Social Sciences excluding Psychology;

(e) four courses at 300 level or above in Biology, Chemistry or Psychology.

*Non-credit course:* Colloquia and Seminars in Current Behaviour, Cognitive and Neuroscience Research: bi-weekly presentations of recent research by investigators within the university and from other universities and research institutions. Attendance by key faculty members and all students is expected. A notation will be added to the student's transcript upon successful completion of the course.

#### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 55-140, 55-141, 59-140, 59-141, 46-115, 46-116, 02-250 (or 65-205); at least one pair of both 64-140 and 64-141 or both 60-104 (60-106) and 60-205, or both 61-140 and 61-141, or both 67-100 and 67-102, and one optional course (62-130 recommended).

*Second Year:* ten courses, including 55-210, 55-211, 55-213, 46-223, 46-256, 59-230 and 59-261.

*Third Year:* ten courses, including 55-320, 55-341, 46-353, 46-358, 46-313, any second, third or fourth level biology.

*Fourth Year:* ten courses: including 46-322 (or 46-323), 46-335, 55-485, 46-457, 55-420 (or 46-496 and 46-497, or 59-410).

55-425 should be taken in third or fourth year.

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## CHEMISTRY AND BIOCHEMISTRY

### Honours Biochemistry

*Total courses:* forty courses

*Major requirements:* twenty courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course) and four additional courses at the 300 or 400 level.

*Other requirements:*

(a) 55-140, 55-141, 55-211, 55-213, 62-140, 62-141, 64-140, 64-141 and 65-205;

(b) Four courses from Arts, Languages or Social Sciences;

(c) Seven courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*Note:* 65-205 can be taken anytime in second, third or fourth year.

*First Year:* ten courses, including 55-140, 55-141, 59-140, 59-141, 62-140, 62-141, 64-140, 64-141 and two other courses.

*Second Year:* ten courses, including 55-211, 55-213, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261 and one other course.

*Third and Fourth Years:* twenty courses, including 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course) and four additional courses at the 300 or 400 level.

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## CHEMISTRY AND BIOCHEMISTRY

### Honours Biochemistry with Thesis

*Total courses:* forty courses.

*Major requirements:* twenty courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course), 59-410\* and two additional courses at the 300 or 400 level.

\*It should be noted that only students who have maintained a major average of 8.0 and a cumulative average of 5.0 will be permitted to enroll in 59-410.

*Other requirements:*

(a) 55-140, 55-141, 55-211, 55-213, 62-140, 62-141, 64-140, 64-141 and 65-205;

(b) Four courses from Arts, Languages or Social Sciences;

(c) Seven courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*Note:* 65-205 can be taken anytime in second, third or fourth year.

*First Year:* ten courses, including 55-140, 55-141, 59-140, 59-141, 62-140, 62-141, 64-140, 64-141 and two other courses.

*Second Year:* ten courses, including 55-211, 55-213, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261 and one other course.

*Third and Fourth Years:* twenty courses, including 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course), 59-410 and two additional courses at the 300 or 400 level.

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## BIOLOGICAL SCIENCES

### Combined Honours Programs

*Total courses: forty.*

*Major requirements-Biological Sciences:* fourteen courses, including the "Core" courses of 55-140, 55-141, 55-210, 55-211, 55-213, and 55-341; plus 55-420 (a 6.00 credit hour course which counts as two courses). In addition to 55-420, at least three courses must be at the 300 level or above.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Other requirements:*

(a) 59-140, 59-141, 59-230, 59-261, 62-130, 65-205, and one pair of both 60-104 or 60-106 and 60-205, or both 60-140 and 60-141, or both 61-140 and 61-141, or both 64-130 and 64-131, or both 64-140 and 64-141, or both 67-100 and 67-102

(b) additional courses from any area of study to a total of forty.

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## CHEMISTRY AND BIOCHEMISTRY

### Honours Biochemistry and Biotechnology

*Total Courses:* forty courses

*Major requirements:* twenty-one courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course), 59-410 (6-credit, 2 semester course), 59-464, 59-468 and 59-480.

*Other Requirements:*

(a) 55-140, 55-141, 62-140, 62-141, 64-140, 64-141, 55-211, 55-213 and 65-205;

(b) Four courses from Arts, Languages or Social Sciences;

(c) Six courses from any area of study (an ethics course is strongly recommended.);

(d) In order to earn B.Sc. in a Biochemistry and Biotechnology, students who have a major average below 8.0 will be required to enroll in two other courses from Chemistry and Biochemistry at the 300 or 400 level.

### RECOMMENDED COURSE SEQUENCE

*Note:* 65-205 can be taken anytime in second, third or fourth year.

*First Year:* 55-140, 55-141, 59-140, 59-141, 62-140, 62-141, 64-140, 64-141 and two other courses.

*Second Year:* 55-211, 55-213, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261 and one other course.

*Third Year:* 59-320, 59-321, 59-362, 59-363, 59-365, 59-380 (6-credit, 2 semester course), and three other courses.

*Fourth Year:* 59-410 (6-credit, 2 semester course), 59-464, 59-468, 59-480 and five other courses.

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## BIOLOGICAL SCIENCES

### Honours Biological Sciences

Undergraduate students may be allowed, with the consent of the instructor, to take one graduate course for credit.

*Total courses:* forty.

*Major requirements:* twenty courses, including the "Core" courses 55-140, 55-141, 55-210, 55-211, 55-213, and 55-341; and fourteen other Biology courses. At least nine courses must be at the 300 level or above. (Recommended: 55-238 and 55-320.)

*Other requirements:*

(a) eight Science courses, including 59-140, 59-141, 59-230, 59-261, 65-205, 62-130 (or 62-140 and 62-141), and at least one pair of both 61-140 and 61-141, or both 64-130 and 64-131, or both 64-140 and 64-141, or both 60-104 or 60-106 and 60-205, or both 60-140 and 60-141, or both 67-100 and 67-102;

(b) six additional Science courses (five additional courses if taking 62-140 and 62-141), including additional courses in Biology. At least two of these courses must be at the 300 level or above;

(c) four options from Arts/Languages or Social Sciences, with at least one from each;

(d) two courses from any area of study.

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## BIOLOGICAL SCIENCES

### Honours Biological Sciences with Thesis

Undergraduate students may be allowed, with the consent of the instructor, to take one graduate course for credit.

*Total courses:* forty.

*Major requirements:* twenty courses, including the "Core" courses 55-140, 55-141, 55-210, 55-211, 55-213, and 55-341; and fourteen other Biology courses including 55-420\*. At least nine courses must be at the 300 level or above. (Recommended: 55-238 and 55-320.)

\*It should be noted that only students who have maintained a major G.P.A. of 8.0 and a cumulative G.P.A of 5.0 will be permitted to enroll in 55-420.

*Other requirements:*

(a) eight Science courses, including 59-140, 59-141, 59-230, 59-261, 65-205, 62-130 (or 62-140 and 62-141), and at least one pair of both 61-140 and 61-141, or both 64-130 and 64-131, or both 64-140 and 64-141, or both 60-104 or 60-106 and 60-205, or both 60-140 and 60-141, or both 67-100 and 67-102;

(b) six additional Science courses (five additional courses if taking 62-140 and 62-141), including additional courses in Biology. At least two of these courses must be at the 300 level or above;

(c) four options from Arts/Languages or Social Sciences, with at least one from each;

(d) two courses from any area of study.

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## BIOLOGICAL SCIENCES/COMPUTER SCIENCE

### Combined B.Sc. Honours in Biological Sciences and Computer Science

*Total courses: forty.*

*Major requirements - Biological Sciences:* fourteen courses, including the "Core" courses of 55-140, 55-141, 55-210, 55-211, 55-213, and 55-341; plus 55-420 (a 6.00 credit hour course which counts as two courses). In addition to 55-341 and 55-420, at least three courses must be at the 300 level or above.

*Major requirements - Computer Science:* fourteen courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, and 60-315; plus three additional Computer Science courses at the 300 level or above.

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## BIOLOGICAL SCIENCES

### Honours Biology and Biotechnology

*Total courses:* thirty eight (120 credits)

*Major requirements-Biological Sciences:* [55-140](#), [55-141](#), [55-210](#), [55-211](#), [55-213](#), [55-238](#), [55-341](#), [55-350](#), [55-380](#) (2 semesters), [55-420](#) (2 semesters), [55-460](#), [55-464](#), [55-465](#).

*Major requirements-Chemistry and Biochemistry:* [59-140](#), [59-141](#), [59-230](#), [59-250](#), [59-261](#), [59-320](#), [59-321](#), [59-362](#), [59-363](#), [59-365](#), [59-468](#), [59-480](#).

*Other requirements-twelve courses:*

(a) [60-104](#) or [60-106](#), [62-130](#) (or [62-140](#) and [62-141](#)), [64-140](#), [64-141](#) and [65-205](#);

(b) Four courses from Biotechnology Options (see below);

(c) Four courses from any other area of study or, if taking [62-140](#) and [62-141](#), three courses. (Recommended: [34-227](#) or [34-228](#)).

*Biotechnology Options:*

[55-242](#), [55-320](#), [55-351](#), [55-355](#), [55-357](#), [55-430](#), [55-453](#), [55-454](#), [55-480](#), [59-464](#), [59-466](#).

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including [55-140](#), [55-141](#), [59-140](#), [59-141](#), [60-104](#) (or [60-106](#)), [62-130](#), [64-140](#), [64-141](#), [65-205](#), and one optional course.

*Second Year:* ten courses, including [55-211](#), [55-213](#), [55-238](#), [55-242](#), [59-230](#), [59-250](#), [59-261](#), and three optional courses.

*Third Year:* nine course, including [55-210](#), [55-350](#), [55-380](#) (2 semesters), [59-320](#), [59-321](#), [59-362](#), [59-363](#), [59-365](#), and one optional course.

*Fourth Year:* nine courses, including [55-420](#) (2 semesters), [55-460](#), [55-464](#), [55-465](#), [59-468](#), [59-480](#), and three optional courses.

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	<b>ODETTE SCHOOL OF BUSINESS</b>
	<b>Bachelor of Commerce (Honours Business Administration)</b>
	The purpose of the Bachelor of Commerce program is to develop educated men and women with a grounding in business ideas and techniques which will help equip them for positions of responsibility in industry and commerce. The program is designed to provide the broad outlook needed in modern business, and accordingly stresses general procedures and methods of attack on problems. Students are guided toward independent study, and they are encouraged to grapple with business problems on their own. The objective is to give students an awareness of the position and significance of business in the world today.
	<i>Total courses:</i> forty.
	<i>Major Requirements – Business:</i> 70-151, 70-255, 71-100, 71-240, 71-243, 72-270, 72-271, 73-102, 73-213, 73-220, 73-331, 74-231, 75-100, 75-397, 75-498, 7X-3XX (Ethics); eight additional business courses
	<i>Other requirements:</i> 41-110, 41-111, 60-104, 62-194; six additional courses from outside of the Odette School of Business Administration; six courses from any area of study including Business.
	Students wishing a stronger Mathematics background or wishing to concentrate in finance should take 62-140 in addition to 62-194. Students may opt to take 62-130 in place of 62-140 but are cautioned that 62-130 is not a prerequisite for upper-level Mathematics courses.
	<b>YEAR 1</b>
	First Term
	75-100
	41-110
	60-104
	62-194
	One course from outside of Business Administration
	Second Term
	70-151
	71-100
	73-102
	41-111
	One course from outside of Business Administration
	<b>YEAR 2</b>
	First Term
	71-240
	70-255
	72-270
	74-231
	One course from outside of Business Administration
	Second Term
	71-243
	72-271
	73-213
	73-220
	One course from within or outside of Business Administration
	<b>YEAR 3</b>
	First Term
	7X-XXX Business Ethics
	73-331
	Three courses (Consult a faculty advisor).
	Second Term
	75-397
	Four courses. (Consult a faculty advisor).
	<b>YEAR 4</b>
	First and Second Terms



75-498 and nine additional courses. (Consult a faculty advisor.)

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## ODETTE SCHOOL OF BUSINESS

### CO-OPERATIVE EDUCATION PROGRAMS IN BUSINESS ADMINISTRATION

#### Bachelor of Commerce (Honours Business Administration)

The Business Administration Co-op Program will help students acquire valuable professional experience in the workplace while they are pursuing their academic careers.

Students are admitted into the Bachelor of Commerce Co-op Program either directly out of their Grade 12 (or equivalent) Year, or in the Fall term of their second year of study in the Odette School of Business Administration. The Co-operative option is not available for the Honours Business and Economics or the Commerce for University Graduates program. Admission to the Program is competitive. Students applying from secondary school will be admitted based on academic achievement (typically, a minimum of 75% is required). Second-year students will complete a co-op application form and may be invited to an interview.

Students admitted to the Program must maintain a major average of 8.0 or better and a cumulative average of 6.0 or better, and must successfully complete three paid work terms to remain in the Co-op Program. To remain in the Co-op program only one outstanding "F" grade is permitted.

The process for obtaining employment is competitive. The University does not guarantee employment. The interview process is as follows:

- 1) Job descriptions will be posted and all qualified co-op students will be invited to apply.
- 2) Employers will be sent the resumes of all students who have applied.
- 3) Interviews will take place and a match will be created.
- 4) Both employers and students will have input into the matching process.

The work/study sequence is as follows:

#### YEAR 1

Fall term: Study

Winter term: Study

#### YEAR 2

Fall term: Study

Winter term: Study

Summer term: Work

#### YEAR 3

Fall term: Study

Winter term: Work

Summer term: Study

#### YEAR 4

Fall term: Work

Winter term: Study

Summer term: Study

### PROGRAM REQUIREMENTS

*Total courses:* forty, plus three co-op work terms

*Major Requirements – Business:* 70-151, 70-255, 71-100, 71-240, 71-243, 72-270, 72-271, 73-102, 73-213, 73-220, 73-331, 74-231, 75-100, 75-397, 75-498, 7X-3XX (Ethics); 75-401, 75-402, 75-403; eight additional business courses.

*Other requirements:* 41-110, 41-111, 60-104, 62-194; six additional courses from outside of the Odette School of Business Administration; six courses from any area of study including Business.

Students wishing a stronger Mathematics background or wishing to concentrate in finance should take 62-140 in addition to 62-194. Students may opt to take 62-130 in place of 62-140 but are cautioned that 62-130 is not a prerequisite for upper-level Mathematics courses.

Work experience obtained with C.A. firms will count toward work experience required for obtaining a C.A. designation. Students in the C.A. stream will be given credit for work experience earned since September 1, 1997 with an office approved for the training of C.A. students.

YEAR 1

First Term

75-100

41-110

60-104

62-194

One course from outside of Business Administration

Second Term

70-151

71-100

73-102

41-111

One course from outside of Business Administration

YEAR 2

First Term

71-240

70-255

72-270

74-231

One course from outside of Business Administration

Second Term

71-243

72-271

73-213

73-220

One course from within or outside of Business Administration

Third Term

75-401 Work term

YEAR 3

First Term

7X-XXX Business Ethics

73-331

Three courses (Consult a faculty advisor).

Second Term

75-402 Work term

Third Term

75-397

Four courses. (Consult a faculty advisor).

YEAR 4

First Term

75-403 Work term

Second and Third Terms

75-498 and nine additional courses. (Consult a faculty advisor.)

**BUSINESS: COURSES**

**BUSINESS: PROFESSIONAL AND CERTIFICATE COURSES**

**BUSINESS: PROGRAMS**

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75-397

One course from within Business Administration

YEAR 4

First Term

7X-XXX Business Ethics

Three Business courses

One Computer Science course

Second Term

75-498

Three Business courses

One Computer Science course

**BUSINESS: COURSES**

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The objective of the program is to provide students with the knowledge, skills, and abilities to direct, co-ordinate, and manage information technology in current business organizations.</p> <p>Admission to this interdisciplinary program is from the Grade 12"U" or equivalent level only, to the University of Windsor, in consultation with representative(s) from the Faculty of Science, the Odette School of Business Administration, and the Centre for Career Education. OSS requirements include Grade 12"U" English, Advanced Functions and Introductory Calculus, Geometry and Discrete Mathematics, plus three other Grade 12 "U" credits, or their equivalents. An eighty percent average is recommended. At least sixty percent in all Grade 12"U" math (or equivalent) courses taken is required.</p> <p>Students admitted to this program must complete a total of forty semester courses, must maintain a major average of 8.0 or better, a cumulative average of 6.0 or better, and successfully complete three work terms. Specific Co-op requirements are available through the Centre for Career Education.</p> <p>The process for obtaining employment is competitive. The University does not guarantee employment. The interview process is as follows:</p> <ol style="list-style-type: none"> <li>1) Job descriptions will be posted and all qualified co-op students will be invited to apply.</li> <li>2) Employers will be sent the resumes of all students who have applied.</li> <li>3) Interviews will take place and a match will be created.</li> <li>4) Both employers and students will have input into the matching process.</li> </ol> <p>The work/study sequence is as follows:</p> <p><b>YEAR 1</b>          Fall term: Study          Winter term: Study</p> <p><b>YEAR 2</b>          Fall term: Study          Winter term: Study          Summer term: Work</p> <p><b>YEAR 3</b>          Fall term: Study          Winter term: Work          Summer term: Study</p> <p><b>YEAR 4</b>          Fall term: Work          Winter term: Study          Summer term: Study</p> <p><b>PROGRAM REQUIREMENTS</b></p> <p><i>Total courses:</i> forty plus three co-op work terms</p> <p><i>Major Requirements – Business:</i> 70-151, 70-255, 71-100, 71-240, 71-243, 72-270, 72-271, 73-220, 73-331, 74-231, 75-100, 75-397, 75-498, 7X-3XX (Ethics); 75-401, 75-402, 75-403; plus seven business electives</p> <p><i>Major requirements - Computer Science:</i> 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-315, 60-330, 60-334, 60-367, 60-393 plus two 300-level or above Computer Science courses.</p> <p><i>Other requirements:</i> 41-110, 41-111, 62-120, 62-140 (or 62-130), and 65-205.</p> <p>Students who substitute 62-130 in place of 62-140 are cautioned that 62-130 is not a prerequisite for upper-level Mathematics courses.</p> <p><b>RECOMMENDED COURSE SEQUENCE</b></p> <p><b>YEAR 1</b></p>
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First Term

41-110  
60-100  
60-140  
62-140  
75-100

Second Term

41-111  
60-141  
65-205  
70-151  
71-100

YEAR 2

First Term

60-212  
60-265  
62-120  
70-255  
71-240

Second Term

60-254  
60-256  
71-243  
73-220  
74-231

Third Term

75-401 Work term

YEAR 3

First Term

60-315  
60-330  
60-393  
72-270  
73-331

Second Term

75-402 Work term

Third Term

60-334  
60-367  
72-271  
75-397

One course from within Business Administration

YEAR 4

First Term

75-403 Work term

Second Term

7X-XXX Business Ethics  
Three Business courses  
One Computer Science course

Third Term

75-498  
Three Business courses  
One Computer Science course

**BUSINESS: COURSES**

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74-231  
7X-XXX Business Ethics  
One additional Business course

Second Term  
71-243  
75-397  
One Business courses  
Two Economics courses

#### YEAR 4

First Term  
Two Economics courses  
Three Business courses

Second Term  
75-498  
Two Business courses  
Two Economics courses

#### Notes:

- 1) Non-required courses taken in the Odette School of Business Administration should be chosen in consultation with the appropriate Area Chairperson and will lead to some specialization in the fields of P-IR, Finance and Marketing.
- 2) Non-required courses taken in Economics should likewise be chosen in consultation with an advisor.
- 3) In either case, all non-required courses in Business and Economics must be chosen from 300- or 400-level courses
- 4) Also, credit may not be obtained for both of 71-344 and 41-353.
- 5) Students who wish to accelerate their programs by taking courses in Summer must seek academic advising in the appropriate area.

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## ODETTE SCHOOL OF BUSINESS

### Bachelor of Commerce Program for University Graduates

Students who wish to pursue the degree of Bachelor of Commerce following a baccalaureate degree previously completed with a 7.0 (C+) average or better in an area other than Business Administration must complete sixty semester credit hours (twenty courses) in Business Administration subjects offered by the Odette School of Business Administration at the University of Windsor. These hours are in addition to those Business Administration courses or their equivalents already taken for credit toward another degree. (Although the program requirement is that twenty Business Administration courses be completed at the University of Windsor, advanced standing may be granted to a maximum of four courses for introductory Business Administration courses provided that such courses were passed with a minimum of C- grade and are beyond the student's initial degree requirements. If the courses were part of the initial degree, the student must substitute for such courses by taking additional courses.)

Applicants to the Bachelor of Commerce Program for University Graduates must have completed at least one university-level mathematics course prior to entry into the program. Applicants who do not present a university mathematics course will be required to take [62-194](#) (mathematics for Business) as indicated in the Recommended Sequence for this program. Applicants who do not possess a Grade 12"U" or equivalent mathematics course prior to entry to this program will be required to complete a Grade 12"U" mathematics course, or its equivalent, prior to graduation from the program.

Students with degrees from universities outside Canada may be required to complete additional courses.

*Total courses:* twenty to twenty-four courses

*Major requirements:* 70-151, 70-255, 71-100, 71-240, 71-243, 72-270, 72-271, 73-102, 73-213, 73-220, 73-331, 74-231, 75-100, 75-397, 75-498 and 7X-XXX (Business Ethics); plus four additional business courses.

*Other requirements:* 41-110, 41-111, 60-104 and 62-194. (Students who have not previously completed these requirements prior to entry into the program, should do so as early as possible to meet the prerequisites for various business courses.)

#### RECOMMENDED SEQUENCE (See Note 1)

##### First Term

70-151

71-100

73-102

74-231

75-100

##### Second Term

70-255

71-240

71-243

72-270

73-220

##### Third Term

7X-XXX Business Ethics

72-271

73-213

73-331

One other Business courses

##### Fourth Term

75-397

75-498

Three other Business courses

#### Notes:

1) The above sequence is based upon prior completion of "Other requirements". Students who have not previously completed these requirements should do so as early as possible to meet prerequisites for various Business courses.

For the purpose of the above recommended sequence, Intersession and Summer Session are treated as one term.

2) The maximum load for students in this program is six courses in each of the Fall and Winter terms and five courses over both Intersession and Summer Session.

#### **BUSINESS: COURSES**

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## ODETTE SCHOOL OF BUSINESS

### Bachelor of Business Studies (General) - Accounting Track

#### ADMISSION REQUIREMENTS

This program is restricted to graduates of three-year business diploma programs from colleges of applied arts and technology with a major in accounting and a minimum cumulative average of B or 70 percent. Those who qualify are granted twenty unspecified semester course equivalents towards this thirty-three-course degree.

The program requirements can be completed in three terms of full-time study or through Flexible Learning. Completion of the Bachelor of Commerce (Honours Business Administration) would require an additional seven courses. Students may retain only one of these degrees.

#### PROGRAM REQUIREMENTS

*Total courses:* thirty-three.

Major requirements: 70-360, 70-361, 70-456, 70-457, 70-458, 70-461, 71-243, 72-271, 73-213, 73-220, and 75-498; plus one additional Business course.

Other requirements: a non-Business course. (62-194 is recommended for those intending to pursue the B.Comm. degree.)

Students with an equivalent course to 70-360 or 70-361 may substitute another Accounting course at the 300 or 400 level. (70-460 is recommended for those working towards their C.A. designation.)

Students with an equivalent course in the 71-, 72-, 73-, or 74-, areas may replace that course with another from within or outside Business Administration at the 200 level or above, provided that at least four of the substituted courses are from Business Administration.

Residency requirement: Thirteen courses must be successfully completed at the University of Windsor.

#### RECOMMENDED COURSE SEQUENCE

First Term  
70-361  
71-243  
73-213  
One Business course  
One non-Business course (Recommended: 62-194.)

Second Term  
70-360  
70-456  
70-457  
70-461  
73-220

Third Term  
70-458  
72-271  
75-498

#### **BUSINESS: COURSES** **BUSINESS: PROFESSIONAL AND CERTIFICATE COURSES**

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## CHEMISTRY AND BIOCHEMISTRY

### Honours Chemistry

*Total courses:* forty courses

*Major requirements:* twenty courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-330, 59-340, 59-350 and six additional courses at the 300 or 400 level.

*Other requirements:*

(a) 62-140, 62-141, 64-140 and 64-141;

(b) 62-120 and a minimum of two additional courses from the following list: 60-106, 62-215, 62-216, 64-220 or 64-222;

(c) four courses from Arts, Languages or Social Sciences;

(d) nine courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140 and 64-141.

*Second Year:* ten courses, including 59-230, 59-235, 59-240, 59-241, 59-250 and 59-251. (*Recommended:* fulfill at least two requirements from (b) above).

*Third and Fourth Years:* twenty courses, including 59-261, 59-320, 59-321, 59-330, 59-340 and 59-350 and six additional Chemistry and Biochemistry courses at the 300 or 400 level.

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## CHEMISTRY AND BIOCHEMISTRY

### Honours Chemistry with Thesis

*Total courses:* forty courses

*Major requirements:* twenty courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-330, 59-340, 59-350, and 59-410\*; and four additional courses at the 300 or 400 level.

\*It should be noted that only students who have maintained a major average of 8.0 and a cumulative average of 5.0 will be permitted to enroll in 59-410.

*Other requirements:*

(a) 62-140, 62-141, 64-140 and 64-141;

(b) 62-120 and a minimum of two additional courses from the following list: 60-106, 62-215, 62-216, 64-220 or 64-222;

(c) four courses from Arts, Languages or Social Sciences;

(d) nine courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140 and 64-141.

*Second Year:* ten courses, including 59-230, 59-235, 59-240, 59-241, 59-250 and 59-251. (*Recommended:* fulfill at least two requirements from (b) above).

*Third and Fourth Years:* twenty courses, including 59-261, 59-320, 59-321, 59-330, 59-340, 59-350, 59-410, and four additional Chemistry and Biochemistry courses at the 300 or 400 level.

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## CHEMISTRY AND BIOCHEMISTRY

### Combined Honours Programs - Chemistry

*Programs combining Chemistry with another major will consist of the following:*

*Total courses: forty.*

*Major requirements - Chemistry and Biochemistry: fifteen courses, consisting of 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-330 (or 59-331), and 59-340; plus two additional courses at the 300 or 400 level.*

*Major requirements - Other Subject: as prescribed by that area of study.*

*Other requirements:*

(a) 62-120, 62-140, 62-141, 64-140, 64-141 and 64-220;

(b) additional courses, if necessary, from any area of study to a total of forty courses.

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## CHEMISTRY AND BIOCHEMISTRY / PHYSICS

### Honours Chemistry and Physics

*Total courses:* forty courses

*Major requirements - Chemistry and Biochemistry:* seventeen courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-320, 59-321, 59-330, 59-340, 59-341, 59-350; 59-441 or 59-445; plus two other courses at the 300 or 400 level.

*Major requirements - Physics:* nine courses, including 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-320, and 64-323; plus one other course at the 300 or 400 level.

*Note:* 64-310 may be taken in place of 59-340, and 64-311 may be taken in place of 59-341.

*Other requirements:*

(a) 62-120, 62-140, 62-141, 62-215, 62-216, and 62-318;

(b) two courses from Arts, Languages, or Social Sciences;

(c) six courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140, 64-141, and 64-151.

*Second Year:* ten courses, including 59-230, 59-235, 59-240, 59-241, 62-215, 62-216, 64-220, and 64-222.

*Third and Fourth Years:* twenty courses, including 59-250, 59-251, 59-320, 59-321, 59-330, 59-340 (or 64-310), 59-341 (or 64-311), 59-350, 59-441 or 59-445, 62-318, 64-250, 64-320, 64-323; plus two additional Chemistry courses at the 300 or 400 level and one additional Physics course at the 300 or 400 level. Students interested in taking advanced physics courses in place of advanced chemistry courses, or vice versa, may do so with the permission of the Undergraduate Coordinator in the Department of Chemistry and Biochemistry

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<a href="#">Glossary</a>	<i>Total courses:</i> forty courses
<a href="#">Search the Undergraduate Calendar</a>	<i>Major requirements - Chemistry and Biochemistry:</i> seventeen courses, including 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-320, 59-321, 59-330, 59-340, 59-341, 59-350; 59-441 or 59-445; 59-410* or both 64-412* and 64-413 (research).
<a href="#">Programs and Certificates</a>	*It should be noted that only students who have maintained a major average of 8.0 and a cumulative average of 5.0 will be permitted to enroll in 59-410 and 64-412.
<a href="#">Programs (Listed Alphabetically)</a>	<i>Major requirements - Physics:</i> nine courses, including 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-320, and 64-323; plus one other course at the 300 or 400 level.
<a href="#">Programs (Listed by Faculty)</a>	<i>Note:</i> 64-310 may be taken in place of 59-340, and 64-311 may be taken in place of 59-341.
<a href="#">Programs (Listed by Department)</a>	<i>Other requirements:</i>
<a href="#">Certificate Programs</a>	(a) 62-120, 62-140, 62-141, 62-215, 62-216, and 62-318;
<a href="#">Minors</a>	(b) two courses from Arts, Languages, or Social Sciences;
<a href="#">Courses</a>	(c) six courses from any area of study.
<a href="#">Alphabetical by Department</a>	<b>RECOMMENDED COURSE SEQUENCE</b>
<a href="#">Instructors</a>	<i>First Year:</i> ten courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140, 64-141, and 64-151.
<a href="#">Alphabetical by Department</a>	<i>Second Year:</i> ten courses, including 59-230, 59-235, 59-240, 59-241, 62-215, 62-216, 64-220, and 64-222.
<a href="#">Admission Information</a>	<i>Third and Fourth Years:</i> twenty courses, including 59-250, 59-251, 59-320, 59-321, 59-330, 59-340 (or 64-310), 59-341 (or 64-311), 59-350, 59-441 or 59-445, 62-318, 64-250, 64-320, 64-323, 59-410 or both 64-412 and 64-413. Students interested in taking advanced physics courses in place of advanced chemistry courses, or vice versa, may do so with the permission of the Undergraduate Coordinator in the Department of Chemistry and Biochemistry.
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## PSYCHOLOGY

### BA (General) Child Psychology

*Total courses:* thirty

*Major requirements:* ten courses including 46-115, 46-116, 46-223; at least four courses chosen from the following list: 46-224, 46-322, 46-323, 46-324, 46-327; three additional courses from Psychology.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:* twelve courses including:

(a) 02-250

(b) five courses from any area of study, including Psychology

(c) eight courses from any area of study, excluding Psychology.

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The Civil Engineering curriculum provides a diversity of applied course work and aids the student in selecting a major field of endeavour as well as a thorough background in the basic sciences and a broad understanding of the social sciences and humanities.</p> <p>The Civil Engineering program provides modern and comprehensive laboratory facilities in the following fields: Strength of Materials, Soil Mechanics, Hydraulics, Structures, Concrete, Sanitary Engineering, and Surveying. The Canadian Society for Civil Engineering has an active student section on campus.</p> <p><i>Note:</i> The baccalaureate degree program in Civil Engineering is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers.</p> <p><b>Bachelor of Applied Science in Civil Engineering</b></p> <p><i>OUTLINE OF STUDIES</i></p> <p>Note: All students will follow the sequence of study terms shown in their program of study.</p> <p><b>FIRST YEAR</b> (Common to all Engineering programs)</p> <p><b>Fall Term</b></p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: right;">Lect.</th> <th style="text-align: right;">Lab.</th> <th style="text-align: right;">Wt.</th> </tr> </thead> <tbody> <tr> <td>85-111.(Engrg. Mech. 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Mech.II)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> <tr> <td>85-124.(Circuit Analysis I)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> <tr> <td>85-130.(Graphical Comm.)</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2.5</td> </tr> <tr> <td>85-131.(Comp.-Aided Design)</td> <td style="text-align: right;">2</td> <td style="text-align: right;">2</td> <td style="text-align: right;">3</td> </tr> <tr> <td>62-141.(Integral Calculus)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3.5</td> </tr> <tr> <td>64-141.(Intro Physics II)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">3</td> <td style="text-align: right;">4.5</td> </tr> </tbody> </table> <p><b>Summer Term</b> (Co-op students only)</p> <p>85-198.(Work Term I)</p> <p><b>SECOND YEAR</b></p> <p><b>Fall Term</b></p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: right;">Lect.</th> <th style="text-align: right;">Lab.</th> <th style="text-align: right;">Wt.</th> </tr> </thead> <tbody> <tr> <td>85-211.(Comp.-Aided Analysis II)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">1.5</td> <td style="text-align: right;">3.75</td> </tr> <tr> <td>85-217.(Mech. of Def. Bod. I)</td> <td style="text-align: right;">2</td> <td style="text-align: right;">2</td> <td style="text-align: right;">3</td> </tr> <tr> <td>85-219.(Intro. to Engrg. Materials)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> <tr> <td>85-222.(Treatment of Expt. Data)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3.5</td> </tr> <tr> <td>87-210.(Surveying)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">3</td> <td style="text-align: right;">4.5</td> </tr> <tr> <td>62-215.(Vector Calculus)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3.5</td> </tr> </tbody> </table> <p><b>Winter Term</b></p>		Lect.	Lab.	Wt.	85-111.(Engrg. Mech. I)	2	2	3	85-118.(Prof. Development)	2	0	2	85-132.(Comp.-Aided Analysis I)	2	2	3	59-110.(Topics in Gen. Chemistry)	3	3	4.5	62-140.(Differential Calculus)	3	1	3.5	62-126.(Linear Algebra)	3	1	3.5		Lect.	Lab.	Wt.	85-122.(Engrg. Mech.II)	3	2	4	85-124.(Circuit Analysis I)	3	2	4	85-130.(Graphical Comm.)	1	3	2.5	85-131.(Comp.-Aided Design)	2	2	3	62-141.(Integral Calculus)	3	1	3.5	64-141.(Intro Physics II)	3	3	4.5		Lect.	Lab.	Wt.	85-211.(Comp.-Aided Analysis II)	3	1.5	3.75	85-217.(Mech. of Def. Bod. I)	2	2	3	85-219.(Intro. to Engrg. Materials)	3	2	4	85-222.(Treatment of Expt. Data)	3	1	3.5	87-210.(Surveying)	3	3	4.5	62-215.(Vector Calculus)	3	1	3.5
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	Lect.	Lab.	Wt.
85-233.(Fluid Mechanics I)	3	1	3.5
87-227.(Mech. of Def. Bod. II)	2	2	3
93-224.(Intro. Environ. Engrg.)	3	3	4.5
61-141.(Earth Systems II)	2	2	3
62-216.(Differential Equations)	3	1	3.5
Non-Technical Elective			

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR**

**Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)	3	1.5	3.75
87-310.(Str. Analysis I)	3	2	4
87-311.(Concrete Design I)	3	2	4
87-313.(Fluid Mech. and Hyd.)	3	2	4
87-315.(Soil Mechanics)	3	1.5	3.75
87-325.(Plan. and Constr. Mgmt.)	3	3	4.5

**Winter Term**

(Co-op students only)

85-398.(Work Term III)

**Summer Term**

	Lect.	Lab.	Wt.
87-314.(Transp. & Traffic Engrg.)	2	2	3
87-322.(Concrete Design II)	3	2	4
87-324.(Str. Steel Design)	3	2	4
87-326.(Geotechnical Engrg.)	3	2	4
42-200.(Resource Mgmt.)	3	0	3
One (1) Technical Elective			

**FOURTH YEAR**

**Fall Term**

(Co-op students only)

85-498.(Work Term IV)

**Winter Term**

	Lect.	Lab.	Wt.
87-323.(Hydrology I)	3	2	4
87-401.(Capstone Design Project)	2	4	4
87-410.(Str. Anal. and Design II)	3	2	4
87-412.(Hydraulics I)	3	2	4
93-413.(Water/Wastewater Col.)	3	2	4
One (1) Elective*			

**Summer Term**

	Lect.	Lab.	Wt.
85-421.(Engineering and Society)	3	0	3
87-401.(Capstone Design Project)	2	4	4
87-414.(Hwy. Design & Constr.)	2	2	3
87-428.(Foundation Engrg.)	2	1	2.5
Two (2) Electives*			

\* Students take one (1) **Non-technical Elective** and two (2) Technical Electives in their fourth year.

*TECHNICAL ELECTIVES*

	Lect.	Lab.	Wt.
87-421.(Str. Analysis III)	2	2	3
87-422.(Str. Design III)	2	2	3
87-423.(Timber & Masonry)	2	2	3
92-321.(Control Theory I)	3	1	3.5
93-414.(Solid Waste Mgmt.)	3	1	3
93-426.(Water/Wastewater Treat.)	2	2	3
61-436.(Hydrogeology)	2	3	3.5
93-428.(Environmental Assessment)	3	2	4

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**General Classical Civilization**

*Total courses:* thirty.

*Major requirements:* twelve courses in Classical Civilization (11-), Greek and Roman History (12-), Greek Language and Literature (13-), or Latin Language and Literature (14-), including 07-220, 11-161, 11-162; plus two of 13-100, 13-101, 13-200, 13-201, 14-100, 14-101, 14-200, and 14-201; and at least one course in each of any three of the following four areas:

(a) Art and Archaeology: 11-265, 11-266, 11-450;

(b) Greek and Roman History: 12-262, 12-263, 12-271, 12-272, 12-310;

(c) Literature: 11-211, 11-212, 11-221, 11-222, 11-350;

(d) Mythology and Religion: 11-229, 11-370, 11-232, 11-372 .

*Option requirements:* six courses including

(a) two Social Science courses;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) three other courses from Arts, Languages, Social Sciences, or Science, including Classical Civilization, Greek and Roman History, Greek Language and Literature, and Latin Language and Literature;

(b) eight courses from any area of study excluding Classical Civilization, Greek and Roman History, Greek Language and Literature, and Latin Language and Literature.

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**Combined Honours Classical Civilization**

*Total courses: forty.*

*Major requirements-Classical Studies:* sixteen courses in Classical Civilization (11-), Greek and Roman History (12-), Greek (13-) or Latin (14-) Language and Literature or Greek Philosophy (34-270 and/or 34-271), including 11-161 and 11-162; plus four of 13-100, 13-101, 13-200, 13-201, 14-100, 14-101, 14-200, and 14-201; and at least one course in each of the following four areas:

(a) Art and Archaeology: 11-265, 11-266, 11-450;

(b) Greek and Roman History: 12-262, 12-263, 12-271, 12-272, 12-310;

(c) Literature: 11-211, 11-212, 11-221, 11-222, or 11-350;

(d) Mythology and Religion: 11-229, 11-370 or 11-232, 11-372.

*Major requirements-Other Subject:* as prescribed by that program.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:* plus additional options, if necessary, to a total of forty courses.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Honours Classical Civilization (Greek or Latin Option)

*Total courses:* forty.

*Major requirements:* twenty courses, consisting of four Greek or Latin Language and Literature courses; plus 11-161, 11-162; and fourteen additional Classical Civilization (11-), Greek and Roman History (12-), Greek Language and Literature (13-), or Latin Language and Literature (14-) or Greek Philosophy courses (34-270 and/or 34-271), including at least one in each of the following four areas:

(a) Art and Archaeology: 11-265, 11-266, 11-450;

(b) Greek and Roman History: 12-262, 12-263, 12-271, 12-272, 12-310;

(c) Literature: 11-211, 11-212, 11-221, 11-222, 11-350;

(d) Mythology and Religion: 11-229, 11-232, 11-370, 11-232, 11-372 .

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) four other courses from Arts, Languages, Social Sciences, or Science, including Classical Civilization, Greek and Roman History, Greek Language and Literature, and Latin Language and Literature;

(b) ten courses from any area of study, excluding Classical Civilization, Greek and Roman History, Greek Language and Literature, and Latin Language and Literature.

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**Combined General Classics and Modern Languages**

*Total courses:* thirty.

*Major requirements:* twenty-four courses, including

(a) twelve of the fourteen courses prescribed by the General Modern Languages degree;

(b) twelve courses prescribed for the General Classical Civilization degree.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

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## COMMUNICATIONS STUDIES

### General Communication Studies

*Total courses:* thirty.

*Major requirements:* ten courses, including 40-101, four of six foundations courses [Foundations courses:40-200, 40-202, 40-225, 40-234, 40-257, 40-275], plus 5 additional courses, at least two of which must be at the 300 or 400 level.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) six courses from any area of study, including Communication Studies;

(b) eight courses from any area of study, excluding Communication Studies.

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## COMMUNICATION STUDIES

### Honours Communication Studies

*Total courses:* forty.

*Major requirements:* twenty courses including 40-101, 40-200, 40-202, 40-225, 40-234, 40-257, 40-275 plus thirteen additional courses, at least five of which must be at the 300 or 400 level, and at least two of those must be at the 400 level. (40-398, 40-399, 40-498 and 40-499 do not count as fulfilling the 300 and 400 level requirements.)

*Option requirements:* six courses including  
(a) two courses from Arts;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*  
(a) four courses from any area of study, including Communication Studies;  
(d) ten courses from any area of study, excluding Communication Studies.

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## COMMUNICATION STUDIES

### Combined Honours Programs

*Total courses: forty.*

*Major requirements-Communication Studies:* sixteen courses including 40-101, 40-200, 40-202, 40-225, 40-234, 40-257, 40-275 plus nine additional courses, at least three of which must be at the 300 or 400 level, and at least two of those must be at the 400 level. (40-398, 40-399, 40-498 and 40-499 do not count as fulfilling the 300 and 400 level requirements.)

*Major requirements-Other subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:* additional options (if required) to a total of forty courses.

*Note:*

Students interested in taking the first-year prerequisite for film making and video production courses (or any other film making or video production courses) must be Communication Studies General or Honours degree students. The Communication Studies Department may also limit or prevent enrollment of the same student in both video and film course sequences, depending on the overall availability of seats in production courses in relation to demand by Communication Studies General and Honours degree students. Entry into advanced film making and advanced video production courses will be based on academic performance and portfolio review after the completion of introductory film and/or video production courses. Advanced production students must successfully complete 40-310 in their first semester after admission to the advanced film and video production courses.

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## COMPUTER SCIENCE

### Bachelor of Computer Science (General)

*Total courses:* thirty.

*Major requirements:* fourteen courses, including 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-266, 60-322, 60-315, 60-330, 60-334 (or 60-367), plus two additional Computer Science courses.

*Other requirements:*

(a) 62-120, 62-130 (or 62-140), and 65-205;

(b) one course from Arts/Languages, and one from Social Sciences;

(c) eleven other courses from any area of study, including Computer Science.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 60-100, 60-140, 60-141, 62-120, and 62-140 (or 62-130).

*Second Year:* ten courses, including 60-212, 60-254, 60-256, 60-265, 60-266, and 65-205.

*Third Year:* ten courses, including 60-315, 60-322, 60-330, and 60-334 (or 60-367).

*Graduation:* In order to graduate with the Bachelor of Computer Science (General) degree, a student must obtain a grade of C- or better in each Computer Science course taken to fulfill major requirements and a cumulative average of 5.0 or better.

*Note:* Students who plan to complete an Honours Computer Science degree at a later date should restrict the number of Computer Science courses they take as options, in order to transfer seamlessly into a Computer Science Honours program. These students should consult a program advisor.

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## COMPUTER SCIENCE

### Bachelor of Computer Science (Honours)

*Total courses:* forty.

*Major requirements:* twenty-one courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, 60-311, 60-315, 60-322, 60-330, 60-354, 60-367, 60-440, 60-454, 60-499 (a 6.0 credit hour course), plus one additional Computer Science course at the 300 or 400 level.

*Other requirements:*

(a) 62-120, 62-140, 62-141, 62-190, 62-369 (or 62-380) and 65-205 (or 65-250);

(b) three courses from Arts, Languages or Social Sciences, with at least one from Arts/Languages and one from Social Sciences;

(c) three courses at the 200-400 level from Mathematics/Statistics or Computer Science (excluding 60-205, 60-207, 60-270, 60-305, 60-336);\*

(d) seven other courses from any area of study, excluding Mathematics/Statistics and Computer Science.

It is recommended that students pursuing a Multi-media specialization should pick 6 courses (in consultation with an academic advisor) from Visual Arts and Communication Studies.

\**Specializations:* Students may specialize in one of the following areas. A special annotation will be made on the transcript for a specialization in one of the following areas, if the specified courses are completed:

i) Artificial Intelligence specialization: 60-373; 60-374; 60-473 (or 60-474); and 60-499 project course on an approved topic in Artificial Intelligence.

ii) Multi-media specialization: 60-350; 60-450; at least one of 60-334 and 60-352; and 60-499 project course on an approved topic in Multi-media.

iii) Networks and Security specialization: 60-467; at least two of 60-368, 60-334, 60-468 and 60-436; and 60-499 project course, on an approved topic in Networks and Security.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 60-100, 60-140, 60-141, 62-120, 62-140, 62-141 and 62-190.

*Second Year:* ten courses, including 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, and 65-205 (or 65-250).

*Third Year:* ten courses, including 60-311, 60-315, 60-322, 60-330, 60-354, 60-367, and 62-369 (or 62-380).

*Fourth Year:* ten courses, including 60-440, 60-454, 60-499 (a 6.0 credit hour course).

*Graduation:* In order to graduate with the Bachelor of Computer Science (Honours) degree, a student must obtain a grade of C- or better in each required Computer Science course taken to fulfill major requirements; a major average of 8.0 or better; and a cumulative average of 5.0 or better.

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## COMPUTER SCIENCE

### Other Combined Honours Programs

*Total courses: forty.*

*Major requirements - Computer Science:* fourteen courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, and 60-315; plus three additional Computer Science courses at the 300 level or above.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Other requirements:*

(a) 62-120, 62-140, 62-141, 62-380 and 65-205;

(b) any additional, non-major requirements as determined by the second area of study;

(c) additional courses, if necessary, from any area of study to a total of forty courses.

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## COMPUTER SCIENCE

### Bachelor of Science (Honours Computer Information Systems)

*Total courses:* forty.

*Major requirements - Computer Science:* seventeen courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-266, 60-315, 60-322, 60-330, 60-334, 60-393, 60-499 (a 6.0 credit hour course), plus two additional Computer Science courses at the 300 or the 400 level.

*Major requirements - Business:* nine courses, including 70-151, 70-255, 71-140, 72-270, and 74-231, but excluding 73-101, 73-102, 73-213, 73-220 and 73-320.

*Other requirements:*

(a) 62-120, 62-130 (or 62-140), and 65-205;

(b) three courses from Arts, Languages or Social Sciences, with at least one from Arts/Languages and one from Social Sciences;

(c) eight additional courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 60-100, 60-140, 60-141, 62-120, 62-130 (or 62-140), 70-151, 71-140, and 72-270.

*Second Year:* ten courses, including 60-212, 60-254, 60-256, 60-265, 60-266, 65-205, and 74-231;

*Third Year:* ten courses, including 60-315, 60-322, 60-330, 60-334, and 60-393.

*Fourth Year:* ten courses, including 60-499 (a 6.0 credit hour course) and two Computer Science courses at the 300 or the 400 level.

*Graduation:* In order to graduate with the Bachelor of Science (Honours Computer Information Systems) degree, a student must obtain a grade of C- or better in each Computer Science and Business Administration course taken to fulfill major requirements; a major average of 8.0 or better; and a cumulative average of 5.0 or better.

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## COMPUTER SCIENCE

### Bachelor of Computer Science (General) for University Graduates

University graduates with a three-year General, four-year Major or four-year Honours degree (from a discipline other than Computer Science) may apply to the B.C.S (General) degree for University Graduates. This second degree program is offered in two formats:

#### **12-month Full time Degree Program**

*Major requirements:* thirteen courses including, 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-266, 60-315, 60-322, 60-330, 60-334 or 60-367, plus one additional Computer Science course.

*Other requirements:* 62-120, 62-130 (or 62-140), and 65-205.

#### PROGRAM SEQUENCING

##### *Summer*

Intersession (6 week offering starting May): 60-140

Summer (6 week offering starting July): 60-141

12-week term (starting May): 60-100, 60-265 and 65-205

##### *Fall*

6 week offering starting September: 60-212

6 week offering starting around October 20: 60-254

13 week term: 60-256, 60-266, one of 62-120, 62-130, 62-140

##### *Winter*

13 week: 60-315, 60-322, 60-330, 60-334 or 60-367, Computer Science elective, remaining Math course.

#### **32-Month Evening Degree Program**

*Major requirements:* thirteen courses including, 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-266, 60-315, 60-322, 60-330, 60-334 or 60-367, plus one additional Computer Science course.

#### PROGRAM SEQUENCING

##### *Year 1*

Fall: 60-140, 60-100

Winter: 60-141, 60-265

Intersession: 60-212

##### *Year 2*

Fall: 60-254, 60-256

Winter: 60-266

Intersession: 60-315

##### *Year 3*

Fall: 60-322, 60-330

Winter: 60-334 or 60-367, Computer Science elective

*Note:* Courses designed for the evening program will have 1 lecture a week from 7 to 10pm. Laboratories will be held from 5:30 to 7pm the same day. The evening program is open only to graduates who have successfully completed all the Mathematics course requirements for the B.C.S General degree program, or their equivalents. (62-120, 62-130 (or 62-140), and 65-205.)

Advanced standing may be granted for Computer Science and Mathematics and Statistics courses provided they (or their equivalents) were passed at an accredited University with a minimum grade of C-. At least 10 additional courses at the 200-400 level must be completed at the University of Windsor to obtain the B.C.S. degree for University Graduates.

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## COMPUTER SCIENCE

### Bachelor of Science (Honours Computer Science with Software Engineering Specialization)

*Total courses:* forty.

*Major requirements - Computer Science:* twenty-four courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, 60-280, 60-311, 60-315, 60-322, 60-330, 60-354, 60-367, 60-411, 60-440, 60-454, 60-480, 60-499 (a 6.0 credit hour course), plus one additional Computer Science.

*Other requirements:*

(a) 62-120, 62-140, 62-141, 62-190, and 65-250 (or 65-205);

(b) any four of 24-210, 26-140, 34-129, 34-228, 46-115, 71-140, or 71-340;

(c) two courses from Arts, Languages or Social Sciences, including one from Arts/Languages and one from Social Sciences;

(d) four additional courses from any area of study, excluding Mathematics and Statistics and Computer Science.

(e) one course at the 200-400 level from Mathematics/Statistics or Computer Science (excluding 60-205, 60-207, 60-270, 60-305, 60-336).

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 60-100, 60-140, 60-141, 62-120, 62-140, 62-141 and 62-190.

*Second Year:* ten courses, including 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-266, 60-280, and 65-250 (or 65-205).

*Third Year:* ten courses, including 60-311, 60-315, 60-322, 60-330, 60-354, 60-367.

*Fourth Year:* ten courses, including 60-411, 60-440, 60-454, 60-480, and 60-499 (a 6.0 credit hour course).

*Graduation:* In order to graduate with the Bachelor of Science (Honours Software Engineering) degree, a student must obtain a grade of C- or better in each Computer Science course taken to fulfill major requirements; a major average of 8.0 or better; and a cumulative average of 5.0 or better.

To remove any suggestion that the word "engineering," in the context of courses or programs in Computer Science implies the meaning of "engineering" as used in the context of courses or programs in Professional Engineering, it is hereby acknowledged that Software Engineering is a collection of principles, models, methods, and techniques for the development, maintenance, evolution, and reuse of software that meets fundamental performance and quality requirements in an economic and competitive manner.

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## SOCIOLOGY AND ANTHROPOLOGY

### Honours Criminology

The number of places available in the third year of the Criminology Honours program is limited, and admission will be competitive. Entry shall be for the Fall term only. Students are eligible to apply for entry into the criminology program only after completing twenty but no more than thirty courses. In particular, applicants must have successfully completed the following courses: 48-101, 48-102 (or 49-112), 48-202, 48-260, 48-262, 48-207 or 48-261, and 34-129 or 34-226.

Applications and information sheets are available at the Office of the Registrar and must be returned to that office by May 1<sup>st</sup>. No late applications will be accepted. Decisions will be rendered by June 1<sup>st</sup>, with notification shortly thereafter.

*Total courses:* forty

*Major requirements:* sixteen, including

(a) 48-101, 48-102 (or 49-112), 48-202, 48-210, 48-260, 48-262, 48-302, 48-308, 48-310 (or 49-355) and 48-363;

(b) 48-207 or 48-261;

(c) 34-129 or 34-226;

(d) two of 48-361, 48-362, 48-367, 48-368, 48-370, 48-371, and 49-323;

(e) 48-466; and one of 48-460, 48-461, 48-464, and 48-465.

*Other requirements:*

(a) 02-250;

(b) seven courses from any area of study, including Sociology

(c) ten courses from any area of study, excluding Sociology (48-) and any Anthropology (49-) courses cross-listed with Sociology.

*Options:*

(a) two courses from Arts or Languages;

(b) two courses from Science;

(c) two courses from Arts, Languages, or Science

### RECOMMENDED COURSES

See Criminology website: [www.uwindsor.ca/criminology](http://www.uwindsor.ca/criminology)

*Notes:*

1) Criminology Honours students interested in graduate studies should take one course from 48-403, 48-404, 48-405, 48-406, 48-408, or 48-415 (or 49-415), since these courses or their equivalents are required for admission to the graduate program in Sociology.

2) Students interested in government service should include French language courses among their options; other non-English language courses also are recommended.

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<a href="#">Programs (Listed by Faculty)</a>	Admission requirements and application procedures for entry to the third year of any program combining Criminology Honours with another subject are as above for Criminology Honours.
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<a href="#">Certificate Programs</a>	<i>Major requirements:</i> fifteen, including (a) 48-101, 48-102 (or 49-112), 48-202, 48-210, 48-260, 48-262, 48-302, 48-308, 48-310 (or 49-355) and 48-363; (b) 48-207 or 48-261; (c) 34-129 or 34-226; (d) two of 48-361, 48-362, 48-367, 48-368, 48-370, 48-371, and 49-323; (e) 48-466.
<a href="#">Minors</a>	
<a href="#">Courses</a>	An equivalent statistics course may be substituted for 48-308, in which case one additional Sociology (48-) or Anthropology (49-) course is required.
<a href="#">Alphabetical by Department</a>	<i>Major requirements – Other Area of Study:</i> as prescribed by that area of study.
<a href="#">Instructors</a>	<i>Other requirements:</i>
<a href="#">Alphabetical by Department</a>	(a) 02-250;
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<a href="#">Application Information</a>	(a) two courses from Arts or Languages;
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## PSYCHOLOGY

### Honours Developmental Psychology

This program is intended for students who wish to study the discipline of lifespan developmental psychology (child, adolescent, and/or adult development) over a four-year period, including those who might wish to study at the graduate level in professions or disciplines other than psychology.

*Total courses:* forty.

*Major requirements:* eighteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-320, 46-353 or 46-358, 46-427, and at least two 200-level courses, two 300-level courses, and two 400-level courses from the following list: 46-223, 46-224, 46-225, 46-322, 46-323, 46-324, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, 46-428.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) 02-250;
- (b) five courses from any area of study, including Psychology;
- (c) ten courses from any area of study, excluding Psychology.

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## PSYCHOLOGY

### Honours Developmental Psychology with Thesis

This program is oriented primarily toward students with a serious interest in psychological research who intend to study at the graduate level in psychology. Students taking this program should be able to do independent research (thesis) work, and have competence in statistics and research methods. In the fourth year, the program requires completion within a two-term period (Fall and Winter terms only) of a thesis. The thesis is an independent research study, completed in conjunction with a research advisor. Entry to the fourth year thesis course, 46-496, requires psychology and cumulative course averages of at least 9.0. Students must consult with the Psychology Undergraduate Program Advisor before undertaking an Honours Developmental Psychology with Thesis program.

*Total courses:* forty.

*Major requirements:* eighteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-313, 46-320, 46-331, 46-353 or 46-358, 46-427, 46-496 and 46-497; and at least two 200-level courses, two 300-level courses, and two 400-level courses from the following list: 46-223, 46-224, 46-225, 46-322, 46-323, 46-324, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, 46-428.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250;

(b) five courses from any area of study, including Psychology;

(c) ten courses from any area of study, excluding Psychology.

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## PSYCHOLOGY

### Combined Honours Programs in Developmental Psychology

*Total courses: forty.*

*Major requirements - Developmental Psychology:* fourteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-320, 46-353 or 46-358, 46-427, and six of: 46-223, 46-224, 46-225, 46-313, 46-322, 46-323, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, 46-428. The total number of Psychology courses must include at least four 300-level courses and two 400-level courses.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250;

(b) additional options (if required) to a total of forty.

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## PSYCHOLOGY

### Combined Honours Programs in Developmental Psychology with Thesis

*Total courses: forty.*

*Major requirements - Developmental Psychology:* fourteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-313 or an equivalent statistics course from another area of study, 46-320, 46-331, 46-353 or 46-358, 46-427, 46-496, 46-497, and four of: 46-223, 46-224, 46-225, 46-322, 46-323, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, 46-428. The total number of Psychology courses must include at least four 300-level courses. Entry to the fourth year thesis course, 46-496, requires psychology and cumulative course averages of at least 9.0. Students must consult with the Psychology Undergraduate Program Chair before undertaking a Combined Honours Developmental Psychology with Thesis program.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250;

(b) additional options (if required) to a total of forty.

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## DIASPORA STUDIES

### Combined Honours in Diaspora Studies

*Total Courses: forty*

*Major requirements-Diaspora Studies: 14 courses as follows*

(a) 45-170, 07-236, 40-262, 47-210, 49-112;

(b) three of 07-235, 26-354, 34-255, 46-235, 46-236, 46-342, 46-445, 48/49-333;

(c) two of 26-361, 40-245, 40-462, 48/49-240, 48/49-241;

(d) two of 26-371, 43-361, 43-369, 45-370;

(e) one of 40-234, 40-337, 45-275, 48-210, 48/49-355;

(f) One Diaspora practicum (to be designed/designated).

*Major requirements—Other area of study: as prescribed by that area of study.*

*Option requirements: six courses including*

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements: additional courses (if required) to a total of 40 courses.*

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## DRAMATIC ART

### General Bachelor of Arts in Drama

*Total courses:* thirty.

*Major requirements:* ten courses, including 24-100 and 24-200; plus one course from each of groups A, B, and C; and five additional Dramatic Art courses as chosen in consultation with a Dramatic Art program advisor.

*Option requirements:* six courses including  
(a) two courses from Social Sciences;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements:*  
(a) six courses from Arts, Languages, Social Sciences, and Science, including Dramatic Art;  
(b) eight courses from any area of study, excluding Dramatic Art.

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## DRAMATIC ART

### Bachelor of Arts (Honours Drama)

*Total courses: forty.*

Major requirements: twenty courses, including 24-100 and 24-200; plus one course from each of groups A, B, and C; and fifteen additional Dramatic Art courses as chosen in consultation with a Dramatic Art program advisor.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) 26-122 and 26-123, or two English options as recommended by an advisor in Dramatic Art;

(b) four courses from Arts, Languages, Social Sciences, and Science, including Dramatic Art;

(c) eight courses from any area of study, excluding Dramatic Art.

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## DRAMATIC ART

### Bachelor of Arts (Combined Honours Programs)

*Total courses:* forty.

*Major requirements - Dramatic Art:* sixteen courses as recommended by a Dramatic Art program advisor.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) one course at the 300 level or above from any area of study including Dramatic Art or the student's second major.

(b) additional options (if required) to a total of forty courses.

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## DRAMATIC ART / COMMUNICATION STUDIES

### Bachelor of Arts (Honours Drama and Communication Studies)

*Total courses: forty.*

*Major requirements - Dramatic Art:* sixteen courses, including 24-100 and 24-200, 24-421, plus one course from each of groups A, B, and C; and ten additional Dramatic Art courses as chosen in consultation with a Dramatic Art program advisor.

*Major requirements - Communication Studies:* sixteen courses including 40-101, 40-200, 40-202, 40-225, 40-234, 40-257, 40-275 plus nine additional courses, at least one of which must be at the 300 level, and at least two must be at the 400 level.

*Other requirements:*

(a) two courses from Languages or Science;

(b) English 26-122 and 26-123, or two options as recommended by a Dramatic Art program advisor;

(c) three additional options, excluding Dramatic Art and Communication Studies;

(d) one course at the 300 level or above from any area of study, including Dramatic Art and Communication Studies.

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## DRAMATIC ART

### Bachelor of Arts (Honours Drama in Education and Community)

This program is designed for those students interested in pursuing future careers in the educational and developmental fields such as elementary classroom teachers and secondary theatre arts teachers; special education teachers; drama consultants; play and recreational leaders in the community; and specialists in theatre for young audiences.

Field work will be assigned only if a student is assessed to have suitable personal qualities as well as academic qualifications.

Students wishing to obtain certification from the Ontario College of Teachers must enrol in a Faculty of Education upon the successful completion of this program.

Drama in Education and Community students may select options in Visual Arts. To do so, they must apply to Visual Arts during the Winter term of their first year. Their requests will be reviewed by interview and/or portfolio.

A concentration of six courses in a second teachable subject is advisable for students wishing to apply to a Faculty of Education. Students wishing to pursue a career in teaching are strongly advised to consult an academic advisor.

### ADMISSION REQUIREMENTS

- 1) All candidates must meet the requirements for admission to the University of Windsor.
- 2) In addition, an interview and workshop will be required.
- 3) enrollment is limited.

### PROGRAM REQUIREMENTS

*Total courses:* forty.

*Major requirements:* twenty courses, including 24-100, 24-160, 24-161, 24-200, 24-225, 24-260, 24-261, 24-277, 24-284, 24-360, 24-371, 24-377, and 24-479; plus two of 24-378, 24-470, 24-471, and 24-479; and five additional Dramatic Art courses to be identified in consultation with a Dramatic Art program advisor.

*Option requirements:* six courses including

- (a) two courses from Social Science;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) four English courses. (Recommended: 26-100, 26-122, and 26-123);
- (b) four Psychology courses: 46-115, 46-116, 46-223, and 46-224;
- (c) two courses from Music (32- or 33-), Visual Arts (27-), or Kinesiology (95-);
- (d) four additional courses from any area of study.

### STANDING REQUIRED

In addition to complying with the general university regulations (see Standing Required for Continuation in Programs), in order to advance in the Drama in Education and Community program, students must obtain a minimum grade of C in the following courses: 24-160, 24-161, 24-260, 24-261, 24-360, 24-371, 24-377, 24-378, 24-470, 24-471, 24-479.

Under exceptional circumstances, and with permission of the Academic Standing Committee, a student may be permitted to upgrade. If the student obtains a grade of C or better in the deficient course(s), and a major average of 8.0 or better, the student may be re-interviewed for the Drama in Education and Community program.

Grades will be reviewed at the end of each semester, and students who do not achieve the minimum grade of C in all required core courses will be required to withdraw from the program. These students may transfer into the B.A. Drama program.

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This intensive program requires four years of study. Students develop performance techniques through courses in acting, voice, interpretation, improvisation, and movement. They are also exposed to training from professional Canadian theatre artists who conduct workshops ranging in length from one day to six weeks. All B.F.A. (Acting) students participate in University Players productions.</p> <p>This professional program is designed for those students wishing to pursue a career in professional theatre, television, or film. It is also designed to prepare students to pursue graduate work and related arts.</p> <p>Transfer credit articulation agreements with the National Theatre School, Humber College, and George Brown College may allow graduates of their three-year Theatre Performance programs to obtain advanced standing.</p> <p><i>Total courses:</i> forty.</p> <p><i>Major requirements:</i> twenty-eight courses, the "core" of twenty-six courses, consisting of 24-100, 24-120, 24-121, 24-130, 24-200, 24-220, 24-221, 24-223, 24-224, 24-228, 24-230, 24-321, 24-322, 24-323, 24-324, 24-330 (or 24-333), 24-344, 24-420, 24-429, and 24-451; plus two courses from the range of 24-453 to 24-458; and the following 1.50 credit hour courses: 24-126, 24-127, 24-128, 24-129, 24-226, 24-227, 24-326, and 24-327; and two additional, non-core Dramatic Art courses to be identified in consultation with a faculty advisor.</p> <p><i>Other requirements:</i></p> <p>(a) two of 11-212, 26-122, 26-123, 26-326, 26-327, 26-328, or 26-356;</p> <p>(b) two additional English courses, including any not already selected from the previous list;</p> <p>(c) two Social Science courses;</p> <p>(d) two courses from any area of study, excluding Dramatic Art;</p> <p>(e) three courses from any area of study, including Dramatic Art;</p> <p>(f) 24-275**.</p> <p>**24-275 will not be counted in the major average for the BFA.</p> <p>In addition to complying with the general university regulations (see <i>Standing Required for Continuation in Programs</i>) in order to advance in the B.F.A. program, students must obtain a minimum grade of C in all required performance courses, specifically: 24-120, 24-121, 24-126, 24-127, 24-128, 24-129, 24-220, 24-221, 24-223, 24-224, 24-226, 24-227, 24-228, 24-321, 24-322, 24-323, 24-324, 24-326, 24-327, 24-420, 24-429, 24-451, 24-453, 24-454, 24-455, 24-456, 24-457, and 24-458.</p> <p>Under exceptional circumstances, and with permission of the Academic Standing Committee, a student may be permitted to upgrade. If the student obtains a grade of C or better in the deficient course(s), and a major average of 8.0 or better, the student may re-audition for the B.F.A. program.</p> <p>Grades will be reviewed at the end of each semester, and students who do not achieve the minimum grade of C in all required performance courses will be required to withdraw from the program. These students may transfer into the B.A. Dramatic Art program.</p> <p><b>DRAMATIC ART: COURSES</b></p> <p><b>DRAMATIC ART: PROGRAMS</b></p> <p><b>DRAMATIC ART: INSTRUCTORS</b></p> <p><b>FACULTY OF ARTS AND SOCIAL SCIENCES: GENERAL INFORMATION AND REGULATIONS</b></p> <p><b>GENERAL UNDERGRADUATE REGULATIONS</b></p>
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<a href="#">Glossary</a>	<i>Total courses: forty.</i>
<a href="#">Search the Undergraduate Calendar</a>	<i>Major requirements-Earth and Environmental Sciences: fourteen courses consisting of 61-140, 61-141, 67-100, 67-102; plus ten other Earth and Environmental Science courses at the 200 level or above, chosen in consultation with an Earth and Environmental Science advisor.</i>
<a href="#">Programs and Certificates</a>	<i>Major requirements-Other Subject: as prescribed by that area of study.</i>
<a href="#">Programs (Listed Alphabetically)</a>	<i>Other requirements:</i>
<a href="#">Programs (Listed by Faculty)</a>	(a) 60-104 and 62-130 and two other Science or Mathematics courses as prescribed by Earth and Environmental Sciences;
<a href="#">Programs (Listed by Department)</a>	(b) four courses from Arts and Social Sciences, if other Honours area is Science, or, four courses from Science, if other Honours area is not Science;
<a href="#">Certificate Programs</a>	(c) additional courses, if necessary, from any area of study to a total of forty courses.
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## ECONOMICS

### Bachelor of Arts (Economics)

*Total courses:* thirty.

*Major requirements:* eleven courses, including 41-110, 41-111, 41-212, 41-221, and 41-231; and six 200-, 300- or 400-level courses. (With the approval of a program advisor, equivalent statistics courses may be substituted for 41-212.)

*Other requirements:*

(a) 02-250, or 65-205;

(b) eight courses from outside Social Sciences with at least two from Arts/Languages and two from Sciences;

(c) four courses from any area of study including Economics;

(d) six courses from any area of study excluding Economics.

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## ECONOMICS

### Bachelor of Arts (Honours Economics)

*Total courses:* forty.

*Major requirements:* twenty courses in Economics including 41-110, 41-111, 41-212 (or 65-251), 41-221, 41-222, 41-231, 41-232, 41-313, 41-414 , 41-323, 41-333, 41-407 and eight additional courses, at least five of which have to be at the 300- or 400- level.

*Other Requirements:*

(a) 62-120, 62-140, and either 65-205 or 65-250 (if taking 65-250, the student must take 62-141 as an elective and as a prerequisite for 65-250) ;

(b) seventeen courses from any area of study, of which a maximum of two may be from Economics.

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## ECONOMICS

### Bachelor of Science (Honours Economics)

*Total courses:* forty.

*Major requirements:* twenty courses in Economics including, 41-110, 41-111, 41-212 (or 65-251), 41-221, 41-222, 41-231, 41-232, 41-313, 41-414, 41-323, 41-333, 41-406, 41-424, 41-434, six Economics elective courses at the 300 or 400 level.

*Other requirements:* 65-250, 62-120, 62-140, 62-141, 62-190, 60-104, plus one additional course (200-level or higher) from the Department of Mathematics and Statistics.

*Other requirements:* An additional 13 courses, a maximum of which two may be Economics courses.

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## ECONOMICS

### Bachelor of Arts (Combined Honours Programs)

*Total courses:* forty.

*Major requirements-Economics:* thirteen courses in Economics including 41-110, 41-111, 41-212 or (65-251), 41-221, 41-222, 41-231, 41-232 and six additional in Economics, at least four of which have to be at the 300- or 400- level.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Other requirements:* 65-205 (or 65-250) plus additional options to a total of forty.

The critical requirement for the four-year Economics Honours is the inclusion of Economics 41-110 and 41-111 in the first year of the program. Similarly Economics 41-221, 41-222, 41-231, and 41-232 should be included in the second year of the program.

Students intending to specialize in Economics in a four-year Honours program should satisfy the Mathematics requirements as early as possible in the program.

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## EDUCATION

### Consecutive Bachelor of Education Degree

#### APPLICATION

Candidates wishing to enter the one-year, pre-service program of study must apply through the Ontario Universities' Application Centre using the on-line application form ([www.ouac.on.ca/teas/](http://www.ouac.on.ca/teas/)).

Applications must be received by the Centre by the announced date.

Applicants select one of three possible levels of teaching specialization: Primary-Junior (Junior Kindergarten to Grade 6), Junior-Intermediate (Grades 4 to 10), and Intermediate-Senior (Grade 7 to 12). Pertinent theory and exemplary teaching practices are supplemented by directed observation and field experience.

#### SELECTION OF CANDIDATES

Candidates will be selected for admission to the Pre-Service program on the basis of superior academic qualifications and experience profiles.

The Faculty of Education also offers an Equity Admissions Program.

#### ADMISSION REQUIREMENTS

1) A candidate for admission to the one-year, pre-service program of study leading to the Bachelor of Education (General) Degree and the Ontario Certificate of Qualification must submit proof of graduation with an approved degree from an accredited university.

The candidate's university degree program must include at least ninety academic credits or equivalent beyond the Ontario Secondary Diploma (or equivalent.)

2) A candidate who wishes to qualify for the Ontario Certificate of Qualification, Intermediate-Senior concentration, will be required to select two teachable subjects from the following: Biology, Chemistry, Computer Science, Dramatic Arts, English, French, Geography, History, Mathematics, Music-Instrumental, Music-Vocal, Physical and Health Education, Physics, Religious Education in the Roman Catholic Schools, Science (General), Individual and Society, and Visual Arts.

Junior-Intermediate candidates will be required to select one teachable subject from the same list, excluding Individual and Society.

A candidate for the Intermediate-Senior level must have as prerequisites for the major teachable subject at least ten semester courses or equivalent (thirty credits) and for the minor teachable subject at least six semester courses or equivalent (eighteen credits). Prerequisites for Individual and Society include courses in Anthropology, Psychology, and/or Sociology. Candidates for the Junior-Intermediate area should have as prerequisites for their teachable subject at least six semester courses or equivalent (eighteen credits).

3) *The following are required of all applicants:*

(a) completed application form with the documents noted on form;

(b) birth certificate and Social Insurance Number (S.I.N.);

(c) proof of Canadian Citizenship or permanent residency as defined by the Immigration Act (Canada), or of eligibility for employment in Canada (if the Ontario Certificate of Qualification or a Temporary Letter of Standing is to be awarded);

(d) legal proof of change of name must be submitted where the name being used differs from that shown on the birth certificate.

4) *Additional requirements:*

(a) Prior to September 15, the candidate must present proof of a tuberculin test as required by the Ontario Ministry of Health. The test must have been administered during the previous twelve months.

(b) An official police criminal record check. The check must have been obtained within the previous six months.

(c) After acceptance, students are required to submit to the Faculty a recent photograph (passport-size) for identification purposes within the Faculty of Education.

(d) Candidates are advised that they are responsible for their own transportation to and from field placements.

#### DEGREE REQUIREMENTS

1) The letter grading system of the University is used in reporting courses. (see 2.6.3). Candidates who obtain three or more final course grades below C will not be recommended for certification. Candidates who are unsuccessful in practice teaching or obtain a grade of F in any course will not be recommended for either a degree or certification.

2) Sessional records include term assignments, oral and written tests, and practical work. The general attitude of the candidate to his or her work, adaptability to teaching, and the probability of future success as a teacher may be taken into consideration in determining sessional standing.

3) Final grades awarded are based upon the accumulated evaluation of the candidate. Formal final examinations may be held; however, no formal supplemental examinations will be allowed.

#### *TEACHER CERTIFICATION*

The Faculty of Education provides programs and courses in teacher education but does not issue a teaching certificate. The responsibility for teacher certification lies with the Ontario College of Teachers. Upon successful completion of the requirements for teacher certification in Ontario, a recommendation will be made by the Dean of the Faculty to the Ontario College of Teachers indicating eligibility for the Ontario Certificate of Qualification. Candidates who successfully complete either the Consecutive or the Concurrent Programs of Study including Practice Teaching will be awarded the B.Ed. degree of the University of Windsor, and will be recommended to the Ontario College of Teachers indicating eligibility for an Ontario Certificate of Qualification.

#### *OUTLINE OF STUDY*

The number of lecture hours per week is indicated in parentheses after each course listed.

#### ***Compulsory Courses:***

80-203. Psychology in Education (2)  
or  
80-207. Introduction to Issues in Education (available with permission only to students who have already taken 80-203 or equivalent.) (2)  
80-204. Education of Exceptional People (2)  
80-205. Organization and Management in Educational Administration (2)  
80-499. Practice Teaching

#### ***Optional Course:***

80-200. Religious Education in Roman Catholic Schools (1)

#### ***Additional Requirements for Primary-Junior Candidates:***

80-311. Visual Art Methodology (1)  
80-313. Health and Physical Education Methodology (1)  
80-314. Language Arts Methodology (2)  
80-315. Mathematics Methodology (2)  
80-316. Music Methodology (1)  
80-317. Science Methodology (1)  
80-318. Social Studies Methodology (1)  
AND  
80-312. Instructional Technology (1), or  
80-319. Issues in Education (1)

#### ***Additional Requirements for Junior-Intermediate Candidates:***

80-321. Visual Art Methodology (1.5, one semester)  
80-322. Instructional Technology (1)  
80-323. Health and Physical Education Methodology (1.5, one semester)  
80-324. Language Arts Methodology (1)  
80-325. Mathematics Methodology (1)  
80-326. Music Methodology (1.5, one semester)  
80-327. Science Methodology (1.5, one semester)  
80-328. Social Studies Methodology (1.5, one semester)

#### ***Junior-Intermediate candidates must also select one course from the following:***

#### *TABLE OF OPTIONS*

80-352. Art (3)  
80-353. Computer Science (3)  
80-356. English (3)  
80-358. French (3)  
80-359. Geography (3)  
80-362. History (3)  
80-365. Religious Education in Roman Catholic Schools (3)  
80-366. Mathematics (3)  
80-367. Music-Vocal (3)  
80-368. Music-Instrumental (3)  
80-369. Health and Physical Education (3)  
80-373. Biology (3)  
80-374. Chemistry (3)  
80-376. Physics (3)  
80-379. Dramatic Arts (3)

80-380. Science-General (3)

***Additional Requirements for Intermediate-Senior Candidates:***

80-330. Topics in IS Methodology (1, one semester)

80-332. Instructional Technology (2, one semester)

80-334. Language Across the Curriculum (1.5, one semester)

80-340. Integrated Theme Project (1.5, one semester)

**Plus two options chosen from:**

80-331. Visual Art Methodology (1.5 one semester)

80-333. Health and Physical Education Methodology (1.5 one semester)

80-335. Mathematics Methodology (1.5 one semester)

80-336. Music Methodology (1.5 one semester)

80-337. Science Methodology (1.5 one semester)

80-338. Social Studies Methodology (1.5 one semester)

80-339. Guidance and Career Education (1.5 one semester)

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EDUCATION / LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

## Concurrent Bachelor of Arts in French Studies/Bachelor of Education

The Concurrent Bachelor of Arts in French Studies/Bachelor of Education Program is offered jointly over four or five years by the French Studies Program and the Faculty of Education. The program prepares individuals to teach at the junior and intermediate levels (grades 4 to 10), with a particular emphasis on teaching French as a Second Language in grades 4 to 8.

Graduates of this program will receive two degrees and will acquire the necessary skills and knowledge for teaching French as a Second Language (Core French or Immersion) in the English language school system (Public or Roman Catholic school system) and fulfill the requirements for certification by the Ontario College of Teachers. It offers students the opportunity to begin working towards teaching certification early in their academic career. Students can qualify for the Bachelor of Arts (General or Honours) degree in French Studies while concurrently studying education and doing practice teaching in schools. Practice teaching begins in year one of the program. All students should see an advisor in the French Studies Program and in the Faculty of Education, each year, to discuss course selection and academic progress.

### APPLICATION AND ADMISSION

Admission is to first-year only. Applicants must present six Grade 12"U" or "M" courses including Grade 12"U" English I, Grade 12"U" French, or their equivalents (such as College Boreal High School equivalency French courses) to be accepted. Admission also requires submission of a student profile and may require an interview. Enrollment is limited to 15 students.

### PROGRAM REQUIREMENTS

#### **CONCURRENT BACHELOR OF ARTS IN FRENCH STUDIES (GENERAL)/ BACHELOR OF EDUCATION**

*Total course equivalents:* forty-three

The Bachelor of Arts (General) degree with a major in French Studies requires thirty courses of which sixteen courses must be in French Studies.

*Major requirements:* sixteen courses, consisting of:

- (a) six Language Training courses: 29-121, 29-122, 29-215 (or 29-315), 29-221, 29-222, 29-325;
- (b) four Literature courses: 29-141, plus one 200-level course, and two 200, 300 or 400-level courses (students are strongly encouraged to choose a range of Literature courses from France, Francophone Canada and the Francophone World);
- (c) three Linguistics courses: 29-230, 29-231, 29-330;
- (d) one additional 200, 300 or 400-level course in Literature or one 300 or 400-level course in Linguistics;
- (e) two Culture courses: 29-260, 29-270.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Arts or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:* eight courses, consisting of:

- (a) eight courses from any area of study, excluding French Studies courses.

*Education requirements:* [13 course equivalents]

- (a) 80-203 (4.0), 80-204 (4.0), 80-205 (4.0), 80-321 (1.5), 80-322 (2.0), 80-323 (1.5), 80-324 (2.0), 80-325 (2.0), 80-326 (1.5), 80-327 (1.5), 80-328 (1.5), 80-355 (3.0), 80-357 (3.0);
- (b) 80-491 (1.5), 80-492 (2.0), 80-493 (2.0), 80-494 (2.0) (seventy days of Practice Teaching);
- (c) 80-200 (2.0) (only for Roman Catholic teacher candidates).

### RECOMMENDED COURSE SEQUENCES - EDUCATION

#### **Year 1**

Education: 80-203 (32 hours).  
Intersession: 80-491 (ten days).

#### **Year 2**

Education: 80-321, 80-323, 80-326, 80-327, and 80-328 (12 hours each) plus 80-322, 80-324, and 80-325 (16 hours each)  
Intersession: 80-492 (twenty days).

#### **Year 3**

Education: 80-204 and 80-355 (32 hours).  
Intersession: 80-493 (twenty days).

#### **Year 4**

Education: 80-205 and 80-357 (32 hours each), plus 80-200 (16 hours, only for Roman Catholic teacher candidates).

Intersession: 80-494 (twenty days).

### **CONCURRENT BACHELOR OF ARTS IN FRENCH STUDIES (HONOURS)/BACHELOR OF EDUCATION**

*Total courses:* fifty-three

The Bachelor of Arts (Honours) degree with a major in French Studies requires forty courses of which twenty-three courses must be in French Studies. Students who wish to complete the Bachelor of Arts in French Studies (Honours) degree, should make the decision to pursue an Honours degree during their second year of studies.

Students pursuing a Bachelor of Arts in French Studies (Honours) degree may take a year, normally their third year, in which they take no Education courses. This permits students to complete French Studies requirements, options and other requirements or minor requirements in another program. This also permits students to immerse themselves in French language and culture by spending their third year (optional) at the Université de Nice, France, in a program operated jointly with The University of Western Ontario, The University of Guelph and Memorial University or by spending their third year at any French universities participating in the Ontario/Rhône-Alpes student exchange. Students can also pursue studies in French at the Université du Québec à Montréal at the undergraduate level, for one or two semesters.

*Major requirements:* twenty-three courses, consisting of:

- (a) eight Language Training courses: 29-121, 29-122, 29-215 (or 29-315), 29-221, 29-222, 29-325, 29-328, 29-329;
- (b) five Literature courses: 29-141 and 29-357, plus one 200-level course, and two 200, 300 or 400-level courses (students are strongly encouraged to choose a range of Literature courses from France, Francophone Canada and the Francophone World);
- (c) four Linguistics courses: 29-230, 29-231, 29-330, 29-332;
- (d) one additional 200, 300 or 400-level course in Literature or one 300 or 400-level course in Linguistics;
- (e) one Franco-Canadian course;
- (f) one 400-level course;
- (g) two Culture courses: 29-260, 29-270;
- (h) one additional course from any area in French Studies.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Arts or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:* eleven courses, consisting of:

- (a) ten courses from any area of study, excluding French Studies courses;
- (b) one course from any area of study, including French Studies courses.

*Education requirements:* [13 course equivalents]

- (a) 80-203 (4.0), 80-204 (4.0), 80-205 (4.0), 80-321 (1.5), 80-322 (2.0), 80-323 (1.5), 80-324 (2.0), 80-325 (2.0), 80-326 (1.5), 80-327 (1.5), 80-328 (1.5), 80-355 (3.0), 80-357 (3.0);
- (b) 80-491 (1.5), 80-492 (2.0), 80-493 (2.0), 80-494 (2.0) (seventy days of Practice Teaching);
- (c) 80-200 (3.0) (only for Roman Catholic teacher candidates).

### **RECOMMENDED COURSE SEQUENCES - EDUCATION**

#### **Year 1**

Education: 80-203 (32 hours).

Intersession: 80-491 (ten days).

#### **Year 2**

Education: 80-321, 80-323, 80-326, 80-327, and 80-328 (12 hours each) plus 80-322, 80-324, and 80-325 (16 hours each)

Intersession: 80-492 (twenty days).

#### **Year 3**

Education: no required courses.

Intersession: no required courses.

#### **Year 4**

Education: 80-204 and 80-355 (32 hours).

Intersession: 80-493 (twenty days).

#### **Year 5**

Education: 80-205 and 80-357 (32 hours each), plus 80-200 (16 hours, only for Roman Catholic teacher candidates).

Intersession: 80-494 (twenty days).

### **PRACTICE TEACHING**

Students pursuing a Concurrent Bachelor of Arts in French Studies (General and Honours)/Bachelor of Education (General) degrees are required to participate in practice teaching. Directed observation and practice teaching will be arranged by the Faculty of Education to include practical experience in appropriate schools and programs from grades 4 to 10, inclusive.

### **STANDING REQUIRED FOR CONTINUATION IN PROGRAM**

Students must comply with general university regulations.

Normally, students complete all requirements for a Bachelor of Arts in French Studies (General)/Bachelor of Education (General) in four years. Those pursuing a Bachelor of Arts in French Studies (Honours)/Bachelor of Education (General), normally will complete all requirements in five years. Any variation must be approved by the Dean of Arts and Social Sciences and the Dean of Education or their designates.

Students must obtain and maintain a minimum major grade point average of 8.0 in French Studies courses in order to remain in the Concurrent Bachelor of Arts in French Studies/Bachelor of Education Program.

#### *STANDING REQUIRED FOR GRADUATION AND CERTIFICATION*

For Standing Required for Graduation, see [Undergraduate Regulations](#).

Graduates of the program will receive both the Bachelor of Arts in French Studies (General or Honours) and the Bachelor of Education (General) degrees.

The Faculty of Education does not issue a teaching certificate. The Ontario Certificate of Qualification is issued by the Ontario College of Teachers upon recommendation of the Dean of the Faculty of Education. Only Canadian citizens or Permanent Residents of Canada qualify for this certificate.

Students who obtain three or more final grades in Education courses below a grade point of 6.0 will not be recommended for certification by the Ontario College of Teachers. Students who are unsuccessful in practice teaching or obtain a grade point of 1.0 in any Education course will not be recommended for either a Bachelor of Education (General) degree or certification by the Ontario College of Teachers.

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## EDUCATION / MATHEMATICS AND STATISTICS

### Concurrent Bachelor of Mathematics/Bachelor of Education

The Concurrent Bachelor of Mathematics/Bachelor of Education Program is offered jointly over four or five years by the Department of Mathematics and Statistics and the Faculty of Education. The aim is to provide the opportunity and education to individuals who wish to teach mathematics in schools at the intermediate and senior levels (Grade 7 through the end of secondary school).

Graduates of this program will receive two degrees and will acquire the necessary skills and knowledge for two teachable subjects and fulfill the requirements for certification by the Ontario College of Teachers. It offers students the opportunity to begin working towards teaching certification early in their academic careers. Students can qualify for the Bachelor of Mathematics degree while concurrently studying education and doing practice teaching in schools. Practice teaching begins in Year One of the program. All students should see an advisor in the Department of Mathematics and Statistics, and in the Faculty of Education, on a regular basis, to discuss course selection and academic progress.

#### APPLICATION AND ADMISSION

Admission is to first-year only. Applicants must present six Grade 12 "U" or "M" courses including Grade 12 "U" English I, Grade 12 "U" Advanced Functions and Introductory Calculus, and Grade 12 "U" Geometry and Discrete Mathematics, or their equivalents. Admission also requires completion and submission of a student profile, by the prescribed deadline. Enrollment in this program is limited to 10 students.

#### PROGRAM REQUIREMENTS

##### **CONCURRENT BACHELOR OF MATHEMATICS (GENERAL)/ BACHELOR OF EDUCATION**

*Total course equivalents:* Forty-five

##### **CONCURRENT BACHELOR OF MATHEMATICS (HONOURS)/ BACHELOR OF EDUCATION**

*Total course equivalents:* Fifty-five

All students are required to complete the requirements of the Bachelor of Mathematics (General or Honours) degree program, in addition to the following Education courses: 80-203 (4.0), 80-204 (4.0), 80-205 (4.0), 80-331 (1.5), 80-332 (2.0), 80-333 (1.5), 80-334 (2.0), 80-335 (2.0), 80-336 (1.5), 80-337 (1.5) and 80-338 (1.5) and 80-366 (6.0); plus one additional course in the range of 80-352 through 80-380 (6.0); and seventy days of Practice Teaching (80-491 (1.5), 80-492 (2.0), 80-493 (2.0) and 80-494 (2.0)). Requirements can also be met for teaching in the Roman Catholic school system by taking 80-200 as an eighth Education course.

Mathematics will be the first teachable subject for students in this program. All students must select a group of courses that provide a second teachable subject (6 approved courses in one area) and are advised to seek the recommendations of the program co-ordinators to ensure that their selection of courses fulfills B.Math.(General or Honours) degree requirements, as well as the requirements for a 'teachable' subject from the perspective of the Faculty of Education.

Many students elect to complete the Bachelor of Mathematics (Honours) degree, thus increasing the range of their career opportunities. Students should make this decision during their second year of studies.

#### RECOMMENDED COURSE SEQUENCES

##### **CONCURRENT BACHELOR OF MATHEMATICS (GENERAL)/ BACHELOR OF EDUCATION**

*First Year:* 62-120, 62-140, 62-141, 62-190, 60-140, 60-141, an arts and a social science course; and the education courses, 80-203 and 80-205.

*Intersession:* 80-491 (ten days).

*Second Year:* eight courses in the B.Math. program; and the education courses 80-331, 80-332, 80-333, 80-334, 80-335, 80-336, 80-337 and 80-338.

*Intersession:* 80-492 (twenty days).

*Third Year:* seven courses in the B.Math. program; plus 80-204 and 80-366.

*Intersession:* 80-493 (twenty days).

*Fourth Year:* seven courses in the B.Math. program; and one further course in the range 80-352 through 80-380, excluding 80-366; plus 80-200 if applicable.

*Intersession:* 80-494 (twenty days).

## **CONCURRENT BACHELOR OF MATHEMATICS (HONOURS)/ BACHELOR OF EDUCATION**

*First Year:* 62-120, 62-140, 62-141, 62-190, 60-140, 60-141, an arts and a social science course; and the education courses, 80-203 and 80-205.

*Intersession:* 80-491 (ten days).

*Second Year:* eight courses in the B.Math. program; and the education courses 80-331, 80-332, 80-333, 80-334, 80-335, 80-336, 80-337 and 80-338.

*Intersession:* 80-492 (twenty days).

*Third Year:* ten courses in the B.Math program.

*Fourth Year:* seven courses in the B.Math. program; plus 80-204 and 80-366.

*Intersession:* 80-493 (twenty days).

*Fifth Year:* seven courses in the B.Math. program; and one further course in the range 80-352 through 80-380, excluding 80-366; plus 80-200 if applicable.

*Intersession:* 80-494 (twenty days).

*Note:* Third year in this sequence contains no Education courses. This is to permit students to complete required Mathematics and Statistics courses for prerequisite purposes, and to ensure that the practice teaching component is close to the end of the program, to meet certification requirements. Having the fourth year without Education courses, rather than the third, is also permitted.

### **PRACTICE TEACHING**

Directed observation and practice teaching will be arranged by the Faculty of Education to include practical experience in schools and programs applicable to the concentration for which the student is a candidate. Candidates in this program will complete their practice teaching in classes from grade seven to the end of Secondary School, inclusive.

### **STANDING REQUIRED FOR CONTINUATION**

Students must comply with the general university regulations. In addition candidates who obtain a final grade of less than a C in (a) practice teaching, or (b) three or more Education courses in the program will not be recommended for certification. Flexible learning available at Windsor allows students to take some of their required B.Math. courses in Summer Term (Intersession or Summer courses).

### **GRADUATION**

For Standing Required for Graduation. Graduates of the program will receive both the Bachelor of Mathematics (General or Honours) and the Bachelor of Education (General) degrees.

The Faculty of Education does not issue a teaching certificate. The Ontario Certificate of Qualification is issued by the Ontario College of Teachers upon recommendation of the Dean of the Faculty of Education. Only Canadian citizens or Permanent Residents of Canada qualify for this certificate.

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## EDUCATION / SCIENCE

### Concurrent Bachelor of Science (General Science)/Bachelor of Education

The Concurrent Bachelor of Science (General Science)/Bachelor of Education Program is offered jointly over four years by the Faculty of Science and the Faculty of Education. The program prepares individuals to teach science in schools at the intermediate and senior level (Grade 7 through the end of secondary school).

Graduates of this program will receive two degrees and will acquire the necessary skills and knowledge for two teachable subjects and fulfill the requirements for certification by the Ontario College of Teachers. It offers students the opportunity to begin working towards teaching certification early in their academic careers. Students can emphasize Biology, Chemistry or Physics as "first teachable" subjects in the General Science program while concurrently studying education and doing practice teaching in Schools. Students wishing to select Mathematics as their first teachable should enrol in the Concurrent BMath (General)/BEd or the Concurrent BMath (Honours)/BEd. Practice teaching begins in year one of the program. All students should see an advisor in the Office of the Dean of Science and in the Faculty of Education, each year, to discuss course selection and academic progress.

#### APPLICATION AND ADMISSION

Admission is to first-year only. Applicants must present six Grade 12 "U" or "M" courses including English 1, Advanced Functions and Introductory Calculus and two of Geometry and Discrete Mathematics, Biology, Chemistry and Physics, or their equivalents. Admission requires completion and submission of a student profile, by the prescribed deadline, and may require an interview. Enrollment in this program is limited to 20 students.

*Total course equivalents: forty-five*

#### Education requirements: [15 course equivalents]

All Students are required to complete the requirements of the B.Sc. (General Science) degree program (30 credit minimum), in addition to: the following Education courses; 80-203 (4.0), 80-204 (4.0), 80-205 (4.0), 80-331 (1.5), 80-332 (2.0), 80-333 (1.5), 80-334 (2.0), 80-335 (2.0), 80-336 (1.5), 80-337 (1.5) and 80-338 (1.5); plus two of 80-366 (6.0), 80-373 (6.0), 80-374 (6.0), 80-376 (6.0), or 80-380 (6.0); and seventy days of Practice Teaching (80-491 (1.5), 80-492 (2.0), 80-493 (2.0), 80-494 (2.0)). Requirements can also be met for teaching in the Roman Catholic school system by taking 80-200.

All students must select a group of Science courses that provide two teachable subjects (10 approved courses in one area, and six in another) and are advised to seek the recommendations of the program co-ordinators to ensure that their selection of courses fulfills B.Sc. (General Science) degree requirements, as well as the requirements for a teachable subject from the perspective of the Faculty of Education. Students must take the major "core" courses in any area that is intended as a "first" or "second" teachable subject.

Many students elect to go on to complete an honours degree in one of their teachable subjects, thus increasing the range of their career opportunities.

*The General Science degree totals thirty credits and requires:*

#### Major requirements: 14 courses

(a) six Science "core" courses, consisting of three, two-course sequences chosen from both 55-140 and 55-141; both 59-140 and 59-141; both 60-140 and 60-141 (or both 60-104 and 60-106 (or 60-205); both 61-140 and 61-141; both 62-130 and 65-205 (or both 62-140 and 62-141, or both 62-140 and 65-205); both 64-140 and 64-141; both 67-100 and 67-102

(Physical Geography may not be used as a teachable);

(b) eight additional Science courses, consisting of any four courses at the 200 level or above from two of the areas of concentration selected above. (Some areas of study offer courses which may not be taken for credit by students majoring in the area of study. Such courses may not be taken to satisfy this requirement.)

#### Other requirements:

(a) four additional Science courses consisting of two Computer Science courses from 60-104 (or 60-106) and 60-205, or 60-140 and 60-100 (or 60-141), or 60-106 and 60-100, unless the student chose a Computer Science pair as one of the three Science first-year core pairs; and two Mathematics and Statistics courses from 62-140 and 62-141 (or 65-205), or 62-130 and 65-205, unless the student's first or second teachable is mathematics or physics in which case another pair of first year science courses should be chosen from 55-140 and 55-141; 59-140 and 59-141; 61-140 and 61-141; and 67-100 and 67-102;

(b) two of English 26-100; Philosophy 34-160, 34-227, 34-228; plus two additional courses from the Arts and Social Sciences;

(c) eight courses from any area of study.

At least four courses in the areas of Science concentration must be at the 300 level or above and may be counted as courses in Major requirements (b) or Other requirements (a) or (c).

#### RECOMMENDED COURSE SEQUENCE

*First Year:* three pairs of 100-level science courses; an arts and a social science course; and the education courses, 80-203,

80-205 and 80-491 (2 term, Fall and Winter, registration). Note: 80-491 commences following the end of the Winter exam period.

*Second Year:* nine courses in the B.Sc. program; and the education courses, 80-331, 80-332, 80-333, 80-334, 80-335, 80-336, 80-337 and 80-338 and 80-492 (2 term, Fall and Winter, registration). Note: 80-492 commences following the end of the Winter exam period.

*Third Year:* five (or six) courses in the B.Sc. program; plus 80-204, 80-493 (2 term, Fall and Winter, registration) and one of 80-373, 80-374, 80-376, or 80-380. Note: 80-493 commences following the end of the Winter exam period.

*Fourth Year:* eight (or seven) courses in the B.Sc. program; 80-494 (2 term, Fall and Winter, registration) and one further course of 80-366, 80-373, 80-374, 80-376, or 80-380; plus 80-200 if applicable. Note: 80-494 commences following the end of the Winter exam period.

#### *PRACTICE TEACHING*

Directed observation and practice teaching will be arranged by the Faculty of Education to include practical experience in schools and programs applicable to the concentration for which the student is a candidate. Candidates in this program will practice teach from grade seven to the end of Secondary School, inclusive.

#### *STANDING REQUIRED FOR CONTINUATION*

Students must comply with the general university regulations. In addition candidates who obtain a final grade of less than a C in (a) practice teaching, or (b) three or more Education courses in the program will not be recommended for certification. Candidates must complete all requirements of the Concurrent Program in four years. Flexible learning available at Windsor allows students to take some of their required B.Sc. courses in Summer Term (intersession or summer courses) or by distance education.

#### *GRADUATION*

Graduates of the program will receive both the Bachelor of Science and the Bachelor of Education (General) degrees.

The Faculty of Education does not issue a teaching certificate. The Ontario Certificate of Qualification is issued by the Ontario College of Teachers upon recommendation of the Dean of the Faculty of Education. Only Canadian citizens or Permanent Residents of Canada qualify for this certificate.

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The aim is to provide the opportunity and preparation to individuals who wish to teach at the preschool and Primary-Junior levels.</p> <p>Graduates of this program will receive two degrees and a diploma and will acquire the necessary skills and knowledge to fulfill the requirements for certification by the Ontario College of Teachers.</p> <p><i>PROGRAM REQUIREMENTS</i></p> <p>All students are required to complete the thirty-course requirement of the University of Windsor General B.A. (or B.Math. or B.Sc.) degree program, in addition to the Education courses 80-203 (4.0), 80-204 (4.0), 80-205 (4.0), 80-311 (2.0), 80-313 (2.0), 80-314 (3.0), 80-315 (3.0), 80-316 (2.0), 80-317 (2.0), 80-318 (2.0), 80-319 (2.0), and Practice Teaching (80-491 (2.0), 80-492 (2.0), 80-493 (2.0), and 80-494 (2.0)). The St. Clair College Early Childhood Education component will consist of the following courses, ECE 100C, ECE 106C, ECE 117C, ECE 120C, ECE 130C, ECE 209C, ECE 210C, ECE 216C, ECE 230C, ECE 310C, ECE 408C, ECE 409C, ECE 411C, and field placements. Requirements can also be met for teaching in the Roman Catholic school system.</p> <p><i>COURSE SEQUENCE</i></p> <p><i>FIRST YEAR</i></p> <p><i>Fall Term:</i> five B.A. (B.Math. or B.Sc.) courses  <i>Winter Term:</i> five B.A. (or B.Math. or B.Sc.) courses</p> <p><i>SECOND YEAR</i></p> <p><i>Fall Term:</i> four B.A. (B.Math. or B.Sc.) courses; the B.Ed course 80-203 (Educational Psychology), 80-491 (full-year course)  <i>Winter Term:</i> ECE 100C, ECE 117C, ECE 120C, ECE 130C, ECE 210C, ECE 409C, and ECE 106; 80-491 (full-year course)  <i>Spring Term:</i> two weeks of E.C.E. preschool field placement and two weeks of B.Ed. JK/SK practice teaching (80-491 (full-year course))</p> <p><i>THIRD YEAR</i></p> <p><i>Fall Term:</i> three B.A. (B.Math. or B.Sc.) courses; the B.Ed courses 80-314, and 80-315; 80-492 (full-year course)  <i>Winter Term:</i> three B.A. (B.Math. or B.Sc.) courses; the B.Ed courses 80-311, 80-313, 80-316 and 80-317; 80-492 (full-year course)  <i>Spring Term:</i> four weeks of B.Ed. Junior grades practice teaching ( 80-492 (full-year course))</p> <p><i>FOURTH YEAR</i></p> <p><i>Fall Term:</i> ECE 209C, ECE 230C, ECE 310C, ECE 408C, ECE 411C, ECE 216C and 4 week field placement; 80-493 (full-year course)  <i>Winter:</i> four B.A. (B.Math. or B.Sc.) courses; the B.Ed. course 80-204, 80-493 (full-year course)  <i>Spring:</i> four weeks of E.C.E. Infant/Toddler field placement</p> <p><i>FIFTH YEAR</i></p> <p><i>Fall Term:</i> three B.A. (B.Math. or B.Sc.) courses; the B.Ed. courses 80-318 and 80-319; 80-494 (full-year course)  <i>Winter Term:</i> three B.A. (B.Math. or B.Sc.) courses; the B.Ed. course 80-205; 80-494 (full-year course)  <i>Spring Term:</i> 4 weeks of B.Ed. Primary grades practice teaching (80-494 (full-year course))</p> <p><i>STANDING REQUIRED FOR CONTINUATION</i></p> <p>Students must comply with the general university regulations, and with the academic regulations of their particular B.A., B.Math. or B.Sc. program. In addition, candidates who obtain three or more final Education course grades below C will not be recommended for certification. Candidates who are unsuccessful in practice teaching or obtain a grade of F in any course will not be recommended for either a degree or certification. Students may repeat only one B.Ed. course, excluding 80-491, 80-492, 80-493, 80-494, for upgrading throughout the program. Any deviation from the prescribed sequence of courses must be approved by the Dean of the Faculty of Education.</p> <p><i>GRADUATION</i></p> <p>Graduates of the program receive both the Bachelor of Arts (or the Bachelor of Science) and the Bachelor of Education</p>
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(General) degrees from the University of Windsor, and the Diploma in Early Childhood Education from St. Clair College.

The Faculty of Education does not issue a teaching certificate. The Ontario Certificate of Qualification is issued by the Ontario College of Teachers upon recommendation of the Dean of the Faculty of Education. Only Canadian citizens or Permanent Residents of Canada qualify for this certificate. Under certain conditions, the Ontario College of Teachers may grant a non-Canadian citizen an Interim Certificate of Qualification.

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## EDUCATION

### Bachelor of Education/Diploma in Technological Education

The program will be designed to accommodate candidates who are presently teaching technological education subjects in Ontario secondary schools. These candidates must be teaching on a Ministry of Education and Training granted "Letter of Permission."

In addition, applicants will need to meet all three of the following admission requirements:

- Ontario secondary school graduation, or its equivalent.
- One of:

- five years of skilled wage-earning business or industrial experience in the selected Technological Studies area, OR  
- a combination of post-grade 12 education related to the selected Technological Studies area, and skilled business or industrial experience totaling at least five years. The latter must include at least two years of skilled wage-earning experience in the selected Technological Studies area of which no fewer than sixteen months must have been spent in continuous employment, OR

- at least 3700 hours of skilled wage-earning experience and successful completion of a post-secondary education program acceptable to the Ontario College of Teachers and which includes at least 24 months (6 semesters of full-time study) of academic studies related to the selected Technological Studies area. This wage-earning experience need not be continuous employment.

- Competence in one Technological Studies area (Communication Technology, Construction Technology, Hospitality Services, Manufacturing Technology, Personal Services, Technological Design and Transportation Technology).

### Program Curriculum Structure

Candidates will be required to take the following courses:

- Education of Exceptional People (3 credits)
- Psychology in Education (3)
- Organization and Management in Educational Administration (3)
- Introduction to Issues in Education (3)
- Curriculum Development for Technological Studies (6)
- Principles and Methods of Teaching Technological Studies (6)
- Internship (6)
- Practicum (6)

**Total courses:** 8

### Standing Required for Continuation in Program

Candidates who obtain a grade of F in any course will be required to withdraw from the program.

### Standing Required for Graduation

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Candidates who obtain three or more final course grades below C will not be recommended for certification. Candidates who are unsuccessful in the internship or the practicum will not be recommended for either a diploma/degree or certification.

### Program Sequencing/Progression

All courses will be offered by the Faculty of Education. Courses will be designed to be meaningful to candidates regardless of their broad-based discipline; assignments, however, will be discipline-specific. The program is offered over 14 months in two 7-week summer institutes with practicum and internship being completed during the intervening Fall/Winter school year.

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## ELECTRICAL AND COMPUTER ENGINEERING

### Bachelor of Applied Science in Electrical and Computer Engineering

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

#### SECOND YEAR

##### Fall Term

	Lect.	Lab.	Wt.
85-211.(Comp.-Aided Analysis II)	3	1.5	3.75
85-214.(Circuit Analysis II)	3	1.5	3.75
85-222.(Treatment of Expt. Data)	3	1	3.5
88-217.(Digital Logic Design I)	3	1.5	3.75
62-215.(Vector Calculus)	3	1	3.5
64-220.(EM Fields & Photons)	3	1.5	3.75

##### Winter Term

	Lect.	Lab.	Wt.
88-224.(Signals and Systems)	3	1.5	3.75
88-225.(Physical Electronics)	3	1.5	3.75
88-226.(Electronics I)	3	1.5	3.75
88-228.(EM Waves & Rad. Syst.)	3	1.5	3.75
62-216.(Differential Equations)	3	1	3.5
Non-Technical Elective*			

##### Summer Term

(Co-op students only)

85-298. (Work Term II)

**THIRD YEAR****Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)			
88-313.(Electromech. Sys. I)	3	1.5	3.75
88-316.(Electronics II)	3	1.5	3.75
88-330.(Dig. Logic Design II)	3	1.5	3.75
Technical or Non-Technical Elective*	3	1.5	3.75

**Winter Term**

(Co-op students only)

85-398. (Work Term III)

**Summer Term**

	Lect.	Lab.	Wt.
88-324.(Control Syst. I)			
88-327.(Microprocessors)	3	1.5	3.75
88-329.(Analog Comm.)	3	1.5	3.75
42-200.(Resource Mgmt.)	3	1.5	3.75
Technical or Non-Technical Elective	3	0	3

\*Students must select a total of one technical and one non-technical elective during the third year from the approved list available in the Department.

**FOURTH YEAR****Fall Term**

(Co-op students only)

85-498. (Work Term IV)

**Winter Term**

<b>Core Subjects - All Students</b>	Lect.	Lab.	Wt.
88-400.(Capstone Design Project)	0	6	3
88-431.(Control Systems II)	3	1.5	3.75
88-457.(Digital Signal Processing)	3	1.5	3.75

**Electives (Select two electives from the list below)**

	Lect.	Lab.	Wt.
88-419.(Dig. Communications)	3	1.5	3.75
88-436.(Computer Communications)	3	1.5	3.75
88-437.(Intelligent Computing)	3	1.5	3.75
88-443.(Embedded Sys. Design )	3	1.5	3.75
88-444.(Analog Int. Circuit Design)	3	1.5	3.75
88-445.(Power Electronics)	3	1.5	3.75

**Summer Term**

<b>Core Subjects - All Students</b>	Lect.	Lab.	Wt.
85-421.(Engineering & Society)	3	0	3
88-400.(Capstone Design Project)	0	6	3
88-432.(EM waves & Rad. Sys. II)	3	1.5	3.75

**Electives (Select three electives from the list below)**

	Lect.	Lab.	Wt.
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88-433.(Digital Integrated Circuits)	3	1.5	3.75
88-434.(Automotive Electronics)	3	1.5	3.75
88-435.(Microelectromech. Sys.)	3	1.5	3.75
88-438.(Coding & Info. Theory)	3	1.5	3.75
88-439.(Multimedia Systems)	3	1.5	3.75
88-440.(Wireless Communications)	3	1.5	3.75
88-447.(Comp. Networks & Security)	3	1.5	3.75
88-448.(Digital Comp. Arch.)	3	1.5	3.75
88-449.(Automotive Sensors)	3	1.5	3.75

### Special Directed Study

The additional directed study courses listed below are available only to fourth-year students with a GPA of 11.0 or better in their third year and with the permission of the Department Head. Each may be used to satisfy one (1) course requirement in the General Engineering Option.

88-410.(Directed Study I) Wt. 3.0  
88-420.(Directed Study II) Wt. 3.0

*Upon request, the Department will provide students with letters indicating that they have completed an area of specialization based on the successful completion of the following cluster of courses:*

Students who wish to specialize in:

Electronics, are recommended to include the following courses in their selection of electives:

*Winter:*

88-444 (Analog Integrated Circuit Design)  
88-445 (Power Electronics)

*Summer:*

88-433 (Digital Integrated Circuits)  
88-434 (Automotive Electronics)  
88-435 (Microelectromechanical Systems)

Communications, are recommended to include the following courses in their selection of electives:

*Winter:*

88-419 (Digital Communications)  
88-436 (Computer Communications)

*Summer:*

88-438 (Coding and Info. Theory)  
88-439 (Multimedia Systems)  
88-440 (Wireless Communications)

Automotive Electronics, are recommended to include the following courses in their selection of electives:

*Winter:*

88-443 (Embedded System Design)  
88-445 (Power Electronics)

*Summer:*

88-434 (Automotive Electronics)  
88-435 (Microelectromechanical Systems)  
88-449 (Automotive Sensors)

Computer Engineering, are recommended to include the following courses in their selection of electives:

*Winter:*

88-437 (Intelligent Computing)  
88-443 (Embedded System Design)

*Summer:*

88-447 (Computer Networks and Security)  
88-448 (Digital Computer Architecture)  
88-449 (Automotive Sensors)

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### General English Language and Literature

*Total courses:* thirty.

*Major requirements:* twelve courses, including:

(a) 26-120, 26-210, and 26-211 (Students are encouraged to take 26-210 and 26-211 in their first year.);

(b) 26-260 or 26-270;

(c) one other 200-level course;

(d) one course from each of Categories A through E.

*Option requirements:* six courses, including:

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) eight courses from any area of study, excluding English;

(b) four courses from any area of study, including English.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### Honours English Language and Literature

*Total courses:* forty.

*Major requirements:* twenty courses, including:

- (a) 26-120, 26-210, 26-211 (Students are encouraged to take 26-210 and 26-211 in their first year.);
- (b) 26-260 or 26-270;
- (c) 26-290, 26-291, or 26-293;
- (d) two Category A courses;
- (e) one course from each of Categories B through E;
- (f) one Practicum course (26-302, 26-305, 26-306, 26-307, 26-309) or a 400-level course;
- (g) one more 400-level course;
- (h) one of 26-280, 26-285, 26-290, 26-301, 26-354, 26-383. (Note 26-285 is a new course.)

*Recommended:* 26-309 (Scholarship and Bibliography).

Option requirements: six courses, including:

- (a) two courses from Social Sciences;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Arts.

Other requirements:

- (a) four courses from any area of study, including English;
- (b) ten courses from any area of study, excluding English.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### Combined Honours English Language and Literature

*Total courses:* forty.

*Major requirements:* seventeen courses, including:

(a) 26-120, 26-210, 26-211, and 26-280;

(b) 26-260\* or 26-270;

(c) One of 26-290, 26-291, or 26-293;

(d) two Category A courses;

(e) one course from each of Categories B through E;

(f) Two 400-level courses, or one 400-level course and one "practicum" course.

Recommended: 26-309 (Scholarship and Bibliography);

(g) three\* additional English courses.

*Major requirements -Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses, including:

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:* additional options (if required) to a total of forty.

\*If 26-260 is used to satisfy both a 200-level requirement and the Category C requirement, the student must take one additional course under (g) to bring the total number of English courses up to the required seventeen for the degree program.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### Honours English Literature and Creative Writing

*Total courses:* forty.

*Major requirements:* twenty courses, including:

- (a) 26-120, 26-210, 26-211 (Students are encouraged to take 26-210 and 26-211 in their first year.);
- (b) 26-260 or 26-270;
- (c) 26-290, 26-291, or 26-293;
- (d) 26-203 (a 6.0-credit course) and 26-498 (a 6.0-credit course);
- (e) 26-304;
- (f) two Category A courses;
- (g) one course from each of Categories B through E;
- (h) one of 26-280, 26-285, 26-290, 26-301, 26-354, 26-383. (Note: 26-285 is a new course.)

*Option requirements:* six courses, including:

- (a) two courses from Social Sciences;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) four courses from any area of study, including English;
- (b) ten courses from any area of study, excluding English.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### Combined Honours English Literature and Creative Writing

*Total courses:* forty.

*Major requirements:* seventeen courses, including:

(a) 26-120, 26-210, 26-211 (Students are encouraged to take 26-210 and 26-211 in their first year.);

(b) 26-260 or 26-270;

(c) 26-290, 26-291, or 26-293;

(d) 26-203 (a 6.0-credit course) and 26-498 (a 6.0-credit course);

(e) 26-304;

(f) one Category A course;

(g) one from each of Categories B through D;

(h) one of 26-280, 26-285, 26-290, 26-301, 26-354, 26-383. (Note 26-285 is a new course.).

*Recommended:* 26-305 (Editing Practicum).

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses, including:

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:* additional options (if required) to a total of forty.

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## BIOLOGICAL SCIENCES

### Honours Biological Sciences - Co-operative Program in Environmental Biology

The Co-operative Program in Environmental Biology aims to provide students with a strong background in pure and applied ecology. Students will be exposed to the principles of population, community and ecosystem ecology, as well as theories and techniques involved in assessing contamination of freshwater systems. The Co-operative Education Program offers students the opportunity to combine their classroom experiences with related work experiences.

#### ACADEMIC REQUIREMENTS

Honours Biological Sciences - Co-operative Program in Environmental Biology students must maintain full-time academic status and satisfy the following:

- Must maintain a minimum cumulative average of 5.0, and
- Must maintain a minimum major average of 8.0, and
- Must not have more than one outstanding F on their transcript.

#### WORK-STUDY SEQUENCE

<i>Year of Study</i>	<i>Fall Semester</i>	<i>Winter Semester</i>	<i>Summer Semester</i>
Year 1	Study	Study	2 week field course
Year 2	Study	Study	Work
Year 3	Work	Study	Study
Year 4	Study	Work	Work
Year 5	Study		

#### PROGRAM REQUIREMENTS

Undergraduate students may be allowed, with the consent of the instructor, to take one graduate course for credit. In order to continue in the program students must maintain a major G.P.A of 8.0 and a cumulative G.P.A. of 5.0.

*Total courses:* forty-four.

*Major requirements:* twenty-two courses, including the "Core" courses of 55-140, 55-141, 55-210, 55-211, 55-213, and 55-341; plus 55-486 (or another approved ecological field study course), 55-320, 55-430, 55-444, and 55-445; plus the research course, 55-420 (a 6.0 credit course which counts as two courses); and five of 55-201, 55-324, 55-325, 55-359, 55-437, 55-440, and 55-468; 55-298, 55-299, 55-498 and 55-499; and four additional Biology courses. Course selections are to be made in consultation with the Co-op Program co-ordinator.

*Other requirements:*

- twelve additional courses from Science, including 59-140, 59-141, 59-230, 59-261, 60-104, 61-436, 62-130 or 62-140, 65-205, and one pair of both 61-140 and 61-141, or both 64-130 and 64-131, or both 64-140 and 64-141, or both 67-100 and 67-102. (One of 59-320 or 59-321 is strongly recommended.)
- four courses from Social Sciences. (Recommended: 42-131 and 45-201);
- two courses from Arts or Languages. (Recommended: 26-100.)

## BIOLOGICAL SCIENCES: PROGRAM REGULATIONS AND INFORMATION

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The public has been aware of the risks involved in handling a wide range of hazardous and toxic materials by major incidents which have occurred in spite of improved design methods and operating techniques to overcome potential problems. Consequently, legislation is being formulated and enacted to control the release of toxic chemicals and pollutants into our environment. Environmental engineers are trained not only to solve problems of immediate concern, but also to develop practices and processes to systematically avoid their occurrence.</p> <p>Environmental engineers have qualifications which will permit them to focus upon the transport, transformation and removal of contaminants in air, water, and soil, as well as the broader aspects of environmental planning and impact assessment.</p> <p><i>Note:</i> The baccalaureate degree program in Environmental Engineering is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers. With appropriate selection of electives, students would be qualified to apply to medical schools.</p> <p><b>Bachelor of Applied Science in Environmental Engineering</b></p> <p><i>OUTLINE OF STUDIES</i></p> <p>Note: All students will follow the sequence of study terms shown in their program of study.</p> <p><b>FIRST YEAR</b> (Common to all Engineering programs)</p> <p><b>Fall Term</b></p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: right;">Lect.</th> <th style="text-align: right;">Lab.</th> <th style="text-align: right;">Wt.</th> </tr> </thead> <tbody> <tr> <td>85-111.(Engrg. Mech. 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Mech.II)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> <tr> <td>85-124.(Circuit Analysis I)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> <tr> <td>85-130.(Graphical Comm.)</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2.5</td> </tr> <tr> <td>85-131.(Comp.-Aided Design)</td> <td style="text-align: right;">2</td> <td style="text-align: right;">2</td> <td style="text-align: right;">3</td> </tr> <tr> <td>62-141.(Integral Calculus)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">1</td> <td style="text-align: right;">3.5</td> </tr> <tr> <td>64-141.(Intro Physics II)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">3</td> <td style="text-align: right;">4.5</td> </tr> </tbody> </table> <p><b>Summer Term</b> (Co-op students only)</p> <p>85-198.(Work Term I)</p>		Lect.	Lab.	Wt.	85-111.(Engrg. Mech. I)	2	2	3	85-118.(Prof. Development)	2	0	2	85-132.(Comp.-Aided Analysis I)	2	2	3	59-110.(Topics in Gen. Chemistry)	3	3	4.5	62-140.(Differential Calculus)	3	1	3.5	62-126.(Linear Algebra)	3	1	3.5		Lect.	Lab.	Wt.	85-122.(Engrg. Mech.II)	3	2	4	85-124.(Circuit Analysis I)	3	2	4	85-130.(Graphical Comm.)	1	3	2.5	85-131.(Comp.-Aided Design)	2	2	3	62-141.(Integral Calculus)	3	1	3.5	64-141.(Intro Physics II)	3	3	4.5	<p><b>SECOND YEAR</b></p> <p><b>Fall Term</b></p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: right;">Lect.</th> <th style="text-align: right;">Lab.</th> <th style="text-align: right;">Wt.</th> </tr> </thead> <tbody> <tr> <td>85-217.(Mech. of Def. Bod. I)</td> <td style="text-align: right;">2</td> <td style="text-align: right;">2</td> <td style="text-align: right;">3</td> </tr> <tr> <td>85-222.(Treatment of Expt. 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Elective\*

**Winter Term**

	Lect.	Lab.	Wt.
85-224.(Technical Communications)			
93-224.(Intro. Environ. Engrg.)	2	1	2.5
55-141.(Cell Biology)	3	3	4.5
59-261.(Organic Chem. of Bio.)	3	3	4.5
62-216.(Differential Equations)	3	3	4.5
Elective*	3	1	3.5

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR****Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)			
87-313.(Fluid Mech. & Hyd.)	3	1.5	3.75
87-315.(Soil Mechanics)	3	2	4
93-312.(Thermodynamics)	3	1.5	3.75
93-314.(Environ. Chem. Anal.)	3	2	4
Elective*	3	2	4

**Winter Term**

	Lect.	Lab.	Wt.
87-323.(Hydrology I)			
93-321.(Transport Phenomena)	3	2	4
93-322.(Occup. Hygiene & Safety)	3	2	4
93-328.(Air Pollution control)	3	2	4
99-218.(Environmental Law)	2	2	3
Elective*	3	0	3

**Summer Term**

(Co-op students only)

85-398.(Work Term III)

\*One elective must be chosen from the list of **non-technical electives**. The others must be approved by the Department Head.

**FOURTH YEAR****Fall Term**

(Co-op students only)

85-498.(Work Term IV)

**Winter Term**

	Lect.	Lab.	Wt.
93-409.(Capstone Design Project)			
93-413.(Water/Wastewater Col.)	2	4	4
93-430.(Env. Engrg. Microbiology)	3	2	4
61-436.(Hydrogeology)	3	0	3
93-438.(Chemical Reaction Eng'g)	2	3	3.5
One (1) Technical elective**	3	2	4

**Summer Term**

Lect.	Lab.	Wt.
-------	------	-----

85-421.(Engineering and Society)	3	0	3
93-409.(Capstone Design Project)	2	4	4
93-414.(Solid Waste Mgmt.)	3	1	3.5
93-426.(Water/Wastewater Treat.)	2	2	3
93-428.(Environ. Assessment)	3	2	4
One (1) Technical Elective**			

\*\* Students take two (2) Technical Electives in their Fourth year.

*TECHNICAL ELECTIVES*

	Lect.	Lab.	Wt.
87-412.(Hydraulics I)	3	2	4
91-321.(Manuf. Technology & Process)	3	2	4
92-324.(Engineering Measurements)	3	3	4.5
92-455.(Effects & Control/Noise)	2	1.5	2.75

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Environmental Geoscience

Students should consult with an Earth and Environmental Sciences advisor before making elective course choices to make sure that the choices conform to the requirements for professional licensure as a geoscientist.

*Total courses:* forty.

*Major requirements:* twenty-three courses, including 61-140, 61-141, 61-220, 61-224, 61-231, 61-232, 61-280, 61-326, 61-327, 61-436, 67-100, 67-210, 67-246, plus ten additional courses from 61-323, 61-324, 61-328, 61-424, 61-430, 61-441, 61-499, 67-102, 67-221, 67-320, 67-334, 67-402, and 87-315.

Students who intend continuing on to graduate studies should take 61-499 (Thesis).

*Other requirements:*

(a) ten courses from Mathematics and Science, including 55-140, 55-141, 59-140, 59-141, 62-130 (or 62-140 and 62-141) and 65-205. Additional courses must be selected from those courses that count towards a major in the other discipline;

(b) two courses, one from each of Arts and Social Sciences. (Recommended: 34-227, 45-211, and 50-393.);

(c) five additional courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including, 55-140, 55-141, 59-140, 59-141, 61-140, 61-141, 62-130, 65-205, and 67-100.

*Second Year:* ten courses, including 61-220, 61-224, 61-231, 61-232, 61-280, 67-210, and 67-246.

*Third Year:* ten courses, including 61-326 and 61-327.

*Fourth Year:* ten courses, including 61-436.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Environmental Geoscience With Thesis

Students should consult with an Earth and Environmental Sciences advisor before making elective course choices to make sure that the choices conform to the requirements for professional licensure as a geoscientist.

*Total courses:* forty.

Major requirements: twenty-three courses, including 61-140, 61-141, 61-220, 61-224, 61-231, 61-232, 61-280, 61-326, 61-327, 61-436, 67-100, 67-210, 67-246, 61-499\*, plus eight additional courses from 61-323, 61-324, 61-328, 61-424, 61-430, 61-441, 67-102, 67-221, 67-320, 67-334, 67-402, and 87-315.

\*It should be noted that only students who have maintained a major G.P.A. of 8.0 and a cumulative G.P.A of 5.0 will be permitted to enroll in 61-499.

*Other requirements:*

(a) ten courses from Mathematics and Science, including 55-140, 55-141, 59-140, 59-141, 62-130 (or 62-140 and 62-141) and 65-205. Additional courses must be selected from those courses that count towards a major in the other discipline;

(b) two courses, one from each of Arts and Social Sciences. (Recommended: 34-227, 45-211, and 50-393.);

(c) five additional courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including, 55-140, 55-141, 59-140, 59-141, 61-140, 61-141, 62-130, 65-205, and 67-100.

*Second Year:* ten courses, including 61-220, 61-224, 61-231, 61-232, 61-280, 67-210, and 67-246.

*Third Year:* ten courses, including 61-326 and 61-327.

*Fourth Year:* ten courses, including 61-436 and 61-499.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Environmental Science

The environmental problems confronting our society increasingly demand interdisciplinary solutions, and the individual who has been prepared by an interdisciplinary education is in a strong position to contribute to societal needs. This program provides preparation for a career in environmental science. With the B.Sc., the graduate will be able to work as part of an interdisciplinary or multidisciplinary research team, or to work with government agencies or utilities in the monitoring of environmental quality. Students who complete an honours research thesis will be eligible for graduate school.

The field of environmental science requires education in a mix of biology (ecology) and study of the physical environment, as well as a background in the aspects of chemistry involved in chemical assessment and monitoring of the environment. Students will also have the opportunity at some point to elect to emphasize biology, physical geography or geology, or to take a similar number of courses in all three areas. This program places strong emphasis on the technical side of environmental assessment, in contrast to the field of environmental studies in which human and planning-related aspects of the environment are emphasized.

In addition to the three core areas of geology, physical geography and biology, the chemistry of the environment is addressed through courses in instrumentation and analysis, and the application of chemical principles to environmental problems is developed in course offerings in geochemistry. The additional development that makes this program unique and particularly relevant to modern environmental scientists is the incorporation of required courses in Geographic Information Systems, or GIS. The GIS approach to organization of spatial data is central to integrated assessment of environmental variables and biological responses.

Inquiries about the Environmental Science Program should be directed to the Department of Earth and Environmental Sciences, Room 204 Memorial Hall, extension 2486.

### Program Requirements

*Total courses:* forty.

*Major requirements:* twenty-two courses, including Biology 55-140, 55-141, 55-210, 55-211, 55-213, 55-237, 55-341; Geology 61-140, 61-141, 61-220, 61-224, 61-232, 61-328, 61-441; Environmental Science 66-280; and Physical Geography 67-100, 67-102, 67-246, 67-210, 67-310, 67-334, 67-402.

*Other requirements:*

(a) Chemistry 59-140, 59-141, 59-230; Mathematics and Statistics 62-130, 65-205; Computer Science 60-104 or 60-106; Human Geography 42-200;

(b) eleven courses chosen from the list of approved courses in Science and Arts And Social Sciences; up to four can be from the Faculty of Arts and Social Sciences; at least one must be from Arts (01-) and one from Social Sciences (02-). Any substitutions for the approved courses must be approved by the Department Head.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Environmental Science with Thesis

The environmental problems confronting our society increasingly demand interdisciplinary solutions, and the individual who has been prepared by an interdisciplinary education is in a strong position to contribute to societal needs. This program provides preparation for a career in environmental science. With the B.Sc., the graduate will be able to work as part of an interdisciplinary or multidisciplinary research team, or to work with government agencies or utilities in the monitoring of environmental quality. Students who complete an honours research thesis will be eligible for graduate school.

The field of environmental science requires education in a mix of biology (ecology) and study of the physical environment, as well as a background in the aspects of chemistry involved in chemical assessment and monitoring of the environment. Students will also have the opportunity at some point to elect to emphasize biology, physical geography or geology, or to take a similar number of courses in all three areas. This program places strong emphasis on the technical side of environmental assessment, in contrast to the field of environmental studies in which human and planning-related aspects of the environment are emphasized.

In addition to the three core areas of geology, physical geography and biology, the chemistry of the environment is addressed through courses in instrumentation and analysis, and the application of chemical principles to environmental problems is developed in course offerings in geochemistry. The additional development that makes this program unique and particularly relevant to modern environmental scientists is the incorporation of required courses in Geographic Information Systems, or GIS. The GIS approach to organization of spatial data is central to integrated assessment of environmental variables and biological responses.

Inquiries about the Environmental Science Program should be directed to the Department of Earth and Environmental Sciences, Room 204 Memorial Hall, extension 2486.

### Program Requirements

*Total courses:* forty.

*Major requirements:* twenty-four courses, including Biology 55-140, 55-141, 55-210, 55-211, 55-213, 55-237, 55-341; Geology 61-140, 61-141, 61-220, 61-224, 61-232, 61-328, 61-441; Environmental Science 66-280, 66-499 (a 6 credit course); and Physical Geography 67-100, 67-102, 67-246, 67-210, 67-310, 67-334, 67-402.

*Other requirements:*

(a) Chemistry 59-140, 59-141, 59-230; Mathematics and Statistics 62-130, 65-205; Computer Science 60-104 or 60-106; Human Geography 42-200;

(b) nine courses chosen from the list of approved courses in the Faculties of Science and Arts and Social Sciences; up to four can be from the Faculty of Arts and Social Sciences; at least one must be from Arts (01-) and one from Social Sciences (02-).

### RECOMMENDED COURSE SEQUENCE

The courses that are part of this program are well-defined, and since Science courses typically build on Prerequisites, the sequence of courses must be carefully followed. The sequencing outlined below is not very flexible for the first and second year, when students take a common core of introductory Biology, Geology, Physical Geography, Chemistry, and Mathematics and Statistics. However, the program has some flexibility in the third and fourth years.

#### FIRST YEAR

Fall term: 55-140, 59-140, 61-140, 62-130, 67-100.

Winter term: 55-141, 59-141, 61-141, 65-205, 67-102.

#### SECOND YEAR

Fall term: 55-210, 59-230, 61-220, 61-224, 61-232.

Winter Term: 55-211, 55-213, 42-200, 60-104 or 60-106, one elective\*\*.

#### THIRD YEAR

Fall term: 55-237, 67-246, three electives\*\*.

Winter term: 66-280\*, 55-341, 67-210, 67-334, one elective\*\*

#### FOURTH YEAR

Fall term: 66-499+, 61-441, 67-402, 67-310, one elective\*\*.

Winter term: 66-499+, 61-328, three electives\*\*.

+ Thesis, available only to Honours students with a major G.P.A. of 8.0 or above.

\* Field course in environmental science.

\*\*Approved Elective Courses

Students in this program will take nine or eleven approved electives, depending on whether or not they undertake honours thesis research. To be eligible to take thesis research a student must be in honours standing (major G.P.A. of 8.0 or above). The elective courses, listed in the following table, are all relevant to environmental science.

*APPROVED SCIENCE ELECTIVES*

*Biology:* 55-324, 55-325, 55-430, 55-437, 55-444, 55-445, 55-468

*Chemistry:* 59-250, 59-320, 59-321

*Computer Science:* 60-106

*Geology:* 61-231, 61-323, 61-324, 61-326, 61-424, 61-430, 61-436

*Physical Geography:* 67-220, 67-221, 67-320, 67-332, 67-370, 67-410

Any Arts or Social Science course that constitutes a program requirement for the Bachelor of Environmental Studies degree.

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	<b>INTER-FACULTY PROGRAMS</b>
	<b>Honours Bachelor of Environmental Studies (BES)</b>
	This program is truly interdisciplinary in approach and will introduce students to the social, cultural, economic, political, legal, and ethical factors affecting human interaction with the environment while at the same time ensuring they acquire a basic literacy in the physical and biological sciences. Graduates will understand the human dimensions of environmental issues and will be knowledgeable, skilled individuals capable of analyzing complex human-environmental situations and formulating effective political and social strategies to address human impact.
	<i>Total courses:</i> forty
	<i>Major requirements:</i>
	(a) twenty courses consisting of, 34-227, 34-228, 48-227, 42-200, 45-212, 49-340, 50-393, 55-101 or 55-140, 58-100, 61-141, 61-213, 61-246, 67-100, 67-102, 67-210, 67-246, 67-280, 67-332, 67-334, 99-218
	(b) plus eight courses from one of the following areas of concentration: Resource Management or Environmental Values and Policies.
	Other requirements:
	(a) 02-250, 41-110, 45-100, 48-101, 48-102, 48-308 (or 42-231 or 50-231);
	(b) six courses from any area of study.
	Area of Concentration: Resource Management
	At least 3 of the following must be taken: 67-220, 67-221, 67-310, 67-320, 67-402, 67-410.
	27-385. Green Corridor
	34-329. Animals and Ethics
	45-238. Political Geography
	66-201. Science, Technology and Society
	45-249. Political Economy of Agriculture and Food (also offered as 42-249)
	55-141. Cell Biology (prerequisite: 55-140)
	55-208. Plants and Society
	58-499. Environmental Studies Research Project
	59-201. Chemistry in the Marketplace
	61-210. Introduction to Oceanography
	61-214. Geology and International Development
	61-247. Environmental Auditing in Mineral Resource Development
	64-203. Physics, Society and the Environment
	67-220. Climatology
	67-221. Advanced Geomorphology
	67-310. GIS Problem Solving & Spatial Modelling
	67-320. Watershed Hydrology
	67-370. Climate Change
	67-402. Remote Sensing
	67-410. GIS and Spatial Decision Support Systems
	71-140. Principles of Management
	Area of Concentration: Environmental Values and Policy
	27-385. Green Corridor
	34-323. Globalization and Social Justice (or 48-375/49-375. Social Justice and Global Change)
	34-329. Animals and Ethics
	34-330. Theories of Nature
	40-101. Introduction to Communication Studies
	40-257. Foundations of Political Economy of Communications
	40-367. Communication, Environment and Development
	42-131. Introduction to Cultural Geography
	45-249. Political Economy of Agriculture and Food (also offered as 42-249)
	45-160. Issues in World Politics
	45-220. Introduction to Public Administration
	45-221. Canadian Public Administration and Policy
	45-238. Political Geography
	45-268. International Organizations
	45-275. Introduction to Research Methods
	45-326. (Municipal) Urban Administration
	45-360. International Conflict and its Resolution
	45-363. Principles of International Law
	48-228. Class, Wealth and Power in Canada

48-327. Social Movements  
50-320. Women, Power, and the Environment  
54-204. Worker Health & Safety  
58-499. Environmental Studies Research Project  
71-140. Principles of Management

## **PROGRAM SEQUENCING**

### **Year 1**

#### **Fall**

45-100. Introduction to Canadian Government and Politics  
48-101. Principles and Methods of Sociology  
67-100. Introduction to Geomorphology  
Option/Elective or area of concentration  
Option (60-104 recommended for an introduction to basic computing skills)

#### **Winter**

48-102. Social Institutions and Social Change  
55-101. Organisms and the Environment (or 55-140)  
58-100. Introduction to Environmental Studies  
61-141. Earth Systems II: The Earth's Surface  
67-102. Atmosphere and Climate

### **Year 2**

02-250. Basic Statistics for the Social Sciences  
34-227. Environmental Ethics  
41-110. Introduction to Economics  
67-246. Aerial Photography and Cartography  
45-212. Environmental Policy and Politics  
34-228. Technology, Human Values and the Environment  
42-200. Introductory Resource Management  
61-213. Geology and the Environment  
67-210. Introduction to GIS  
Option/Elective or area of concentration

### **Year 3**

48-227. Globalization and Social Change  
48-308. Intermediate Statistics  
61-246. Environmental Decision Analysis  
50-393. Environmental Planning  
67-280. Field Measurement and Mapping Techniques  
67-332. Principles of Resource Management  
4 Options/Elective or area of concentration

### **Year 4**

48-340. Food and Global Sustainability  
67-334. Environmental Impact Assessment  
99-218. Environmental Law  
7 Options/Elective or area of concentration

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## FAMILY AND SOCIAL RELATIONS

### General Family and Social Relations

Total courses: thirty.

#### *Major Requirements:*

(a) 46-115, 46-116; 48-101, 48-102, 48-104, 48-210 (or equivalent);

(b) one of 43-249, 43-250, 43-335, 48-351;

(c) six of 46-223, 46-224, 46-240, 47-117, 47-118, 48-204, 48-205, 48-206, 48-306 (or 49-306), 48-329, 48-450, 48-354, 48-409, 48-461;

(d) two of 41-110, 46-225, 46-322, 47-204, 47-210, 48-226 (or 49-226), 48-251, 49-214.

#### *Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

#### *Other requirements:*

(a) 02-250 (or equivalent)

(b) eight courses from any area of study, including Social Sciences. Courses listed above not used to fulfill other requirements may be chosen.

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## FAMILY AND SOCIAL RELATIONS

### Honours Family and Social Relations

Total courses: forty.

*Major Requirements:* twenty seven courses, including

(a) 46-115, 46-116, 46-223, 46-224, 46-327, 48-101, 48-102, 48-104, 48-204, 48-205, 48-206, 48-210 (or equivalent), 48-329, 48-450;

(b) 46-313 or 48-308;

(c) one of 43-249, 43-250, 43-335, and 48-351;

(d) one of 46-240 or 48-306 (or 49-306);

(e) three of 46-225, 47-117, 47-118, 48-354, and 49-214;

(f) one of 48-310 (or 49-355) or 48-416;

(g) two of 43-463, 46-423, 46-424, 46-440, 46-463, 48-409, 48-461, 48-496;

(h) four of 41-110, 46-322, 46-323, 47-204, 47-210, 48-226 (or 49-226), 48-251, 48-352 (or 49-352), 49-214.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250 (or equivalent)

(d) six courses from any area of study, including any course listed above not used to fulfill other requirements.

*Note:* Family and Social Relations Honours students interested in graduate studies in Sociology should include the following courses in their program: 48-302, 48-308, plus one course from 48-403, 48-404, 48-405, 48-406, or their equivalents.

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## FAMILY AND SOCIAL RELATIONS

### Combined Honours Family and Social Relations

(Not available for a Combined Honours degree with Sociology.)

*Total courses:* forty.

*Major requirements-Family and Social Relations:* fifteen courses, consisting of:

(a) 46-115, 46-116, 48-101, 48-102, 48-104, 48-210 (or equivalent), 48-306 (or 46-240), 48-308 (or 46-313, or equivalent);

(b) two of 46-223, 46-224, 46-327;

(c) two of 48-204, 48-205, 48-206, 48-251, 49-214;

(d) one of 48-450, 48-351, 48-352, 48-354;

(e) one of 43-463 (or 46-463), 46-423, 46-424, 48-409, 48-461, 48-496;

(f) one of 48-310 (or 49-355), 48-416.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250 (or equivalent)

(b) additional courses from any area of study as required, to a total of forty.

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## INTER-FACULTY PROGRAMS

### Honours Bachelor of Forensic Science (BFS)

Forensic Science is the study of evidence in modern criminal investigation for presentation in courts of law. The Bachelor of Forensic Science (Hons.) Program will provide students with an education in both the Arts and the Sciences, with a focus on acquiring the skills and knowledge essential to the practice of professional Forensic Science. The program will enable students to develop as inquisitive researchers, have an understanding of scientific processes and protocols, lab procedures, criminality, judicial systems, (physical) evidence, the significance of high ethical standards, sophisticated interpersonal skills, and effective report writing and public speaking skills.

Admission will take place for the beginning of the third year. The number of places available in the third year of the Bachelor of Forensic Science Honours program is limited, and admission will be competitive. Students are normally eligible to apply for entry into the Forensic Science program only after completing twenty but no more than thirty courses. Applicants must have successfully completed the following courses: 48-101, 55-140, 55-141, 59-140, 59-141, 62-140, 62-141, 65-205, 48-260, 57-201.

*Total courses:* forty.

*Major requirements:* twenty-seven courses consisting of 01-209; 48-101; 48-260; 48-262; 49-111; 49-112; 55-140; 55-141; 59-140; 59-141; 59-230; 59-261; 62-140; 62-141; 65-205; 64-140; 64-141; 99-219; 57-201; 57-301; 57-302; 57-303; 57-400; 57-401; 57-402; two of the following: 24-210, 34-160 or 43-287.

*Other requirements:*

(a) Ten additional courses from one of the three following areas of concentration: Molecular Biology/Biochemistry; or Biology; or Chemistry. At least six must be at the 300 level or above. The area of concentration must be declared prior to entry of 2nd year studies.

(b) Three open options from outside the area of concentration

*Area of Concentration:* Molecular Biology/Biochemistry

*Required Courses*

55-202. Human Anatomy

55-211. Genetics

55-213. Introduction to Molecular Biology

59-320. Analytical Chemistry

59-321. Principles of Instrument. Analysis and 5 of:

55-204. Human Physiology I

55-210. Ecology

55-242. Immunology

55-350. Molecular Cell Biology

55-357. Animal Cells & Tissues

55-485. Nerves, Muscles and Glands

59-362. Metabolism I

59-363. Metabolism II

59-365. Protein and Nucleic Acid Chem

59-468. DNA Science

59-480. Bioinformatics/Genomics/Proteomics

*Area of Concentration:* Biology

*Required Courses*

55-210. Ecology

55-211. Genetics

55-324. Population Ecology

55-325. Community Ecology

55-341. Evolution

55-359. Invertebrate Biology

and 4 of:

49-215. Principles of Physical Anthropology

49-323. Forensic Anthropology

55-202. Human Anatomy

55-204. Human Physiology I

55-205. Human Physiology II

55-213. Introduction to Molecular Biology

55-357. Animal Cells & Tissues

55-320. Experimental Principles & Design

55-425. Animal Behaviour  
55-437. Conservation Biology  
55-468. Plant Ecology

Area of Concentration: Chemistry

Required Courses

59-240. Introduction to Physical Chemistry I  
59-241. Introduction to Physical Chemistry II  
59-250. Introduction to Inorganic Chemistry I  
59-251. Introduction to Inorganic Chemistry II  
59-320. Analytical Chemistry  
59-321. Principles of Instrument Analysis  
and 4 of:  
59-330. Spectroscopic Structure Identification  
59-331. Intermediate Organic Chemistry  
59-340. Quantum Chemistry  
59-341. Molecular Spectroscopy  
59-351. Materials Chemistry  
59-365. Protein and Nucleic Acid Chemistry  
59-421. Advanced Analytical Chemistry  
59-470. Introduction to Computational Chemistry  
59-466. Drug Design

*PROGRAM SEQUENCING*

**Year 1**

48-101. Principles and Methods of Sociology  
49-111. Introduction to Physical Anthropology and Archaeology  
49-112. Culture in Comparative Perspective  
55-140. Biological Diversity  
55-141. Cell Biology  
59-140. General Chemistry I  
59-141. General Chemistry II  
62-140. Differential Calculus  
62-141. Integral Calculus  
57-201. Introduction to Forensic Science

**Year 2**

48-260. Introduction to Criminology  
65-205. Statistics for the Sciences  
59-230. Introductory Organic Chemistry  
59-261. Organic Chemistry of Biomolecules  
64-140. Introductory Physics I  
64-141. Introductory Physics II  
4 other courses

**Year 3**

01-209. Ethics in the Profession  
48-262. Administration of Criminal Justice  
99-219. Law of Evidence for Forensics  
57-301. Laboratory in Forensic Science  
57-302. Pro-seminar in Forensic Science  
5 other courses

**Year 4**

57-303. Forensic Identification  
57-400. Research and Issues in Forensic Science  
57-401. Practicum in Forensic Science  
57-402. Research Paper in Forensic Science  
6 other courses

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	<b>INTER-FACULTY PROGRAMS</b>
	<b>BA (Honours) in Forensics and Criminology</b>
	The Honours Bachelor of Arts degree in Forensics and Criminology provides a unique inter-faculty program that combines courses from the sciences and social sciences. The program provides training in the identification, collection and presentation of evidence in criminal investigations, as well as an education in criminology including criminal justice, penology, policing, victimology, security, youth justice, and deviance.
	Admission will be competitive and will take place at the beginning of the third year. Students are normally eligible to apply for entry into the Double Major program only after completing twenty but no more than thirty courses. Applicants must have successfully completed the following courses: 34-226, 48-101, 49-112, 48-202, 55-141, 62-130, 65-205 (or 02-250), 43-287, 48-260, 48-262, 57-201.
	<i>Total courses: forty.</i>
	<i>Major requirements:</i> thirty courses consisting of 01-209; 34-226; 43-287; 48-101; 48-202; 48-207; 48-210; 48-260; 48-261; 48-262; 48-302; 48-308; 48-310 or 49-355; 48-363; 49-111; 49-112; 49-215; 49-323; 55-140; 55-141; 55-211; 62-130; one of 02-250 or 65-205; 57-201; 57-303; 57-400; three of 46-220, 48-361, 48-362, 48-367, 48-368, 48-369, 48-370, 48-375 or 49-375; one of 48-460, 48-461, 48-464, 48-465, 48-466.
	<i>Other requirements:</i> ten open options
	<b>PROGRAM SEQUENCING</b>
	<b>Year 1</b>
	55-141. Cell Biology
	55-140. Biological Diversity
	01-209. Ethics in the Professions
	57-201. Introduction to Forensic Science
	43-287. History of Crime
	65-205. Statistics for the Sciences (or 02-250)
	62-130. Elements of Calculus
	48-101. Principles & Methods of Sociology
	49-112. Culture in Comparative Perspective
	49-111. Introduction to Physical Anthropology & Archaeology
	<b>Year 2</b>
	49-215. Principles of Physical Anthropology
	48-262. Administration of Criminal Justice
	48-260. Introduction to Criminology
	48-207. Canadian Social Problems
	48-210. Quantitative Research
	48-308. Intermediate Statistics
	48-202. Foundations in Sociological Theory
	34-226. Law, Punishment and Morality
	Option course
	One of:
	49-355. Field Methods in Anthropology (48-355) or option course
	48-310. Qualitative Research or option course
	<b>Year 3</b>
	57-303. Forensic Identification
	48-302. Contemporary Sociological Theory
	48-261. Law and Social Justice
	55-211. Genetics
	48-363. Penology
	Two options courses
	<i>Three of:</i>
	46-220. Introductions to Adjustment and Personality
	48-361. Youth in Conflict with the Law
	48-362. Victimology
	48-375. Social Justice and Global Change (49-375)
	48-367. Corporate and Government Crime
	48-368. Policing Society
	48-369. Crime Control and Security
	48-370. Selected topics in Criminology
	<b>Year 4</b>
	49-323. Forensic Anthropology

57-400. Research and Issues in Forensic Science

Seven option courses

*One of:*

48-460. Social Construction of Deviance

48-461. Family Law and Social Policy

48-464. Sociology of Law

48-465. Women, Law and Crime

48-466. Crime and Criminology

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### General Bachelor of Arts in French Studies

*Total courses:* thirty.

*Major requirements:* sixteen courses, consisting of:

(a) six Literature courses: 29-141; plus two of 29-252, 29-253, 29-255, 29-350; and two of 29-257, 29-353, 29-354, 29-356; and one of 29-270, 29-284, 29-383, 29-385;

(b) six Language Training courses: 29-121, 29-122, 29-215 (or 29-315), 29-221, 29-222; and one of 29-325, 29-328, 29-329; (c) three Linguistics courses: 29-230 and 29-231; and one of 29-330, 29-332;

(d) one additional course from 29-260, 29-261, 29-281, or 29-357, Franco-Canadian courses, or Special Topics (400-level) courses.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) eight courses from any area of study, excluding French.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Honours Bachelor of Arts in French Studies

*Total courses:* forty.

Major requirements: twenty-three courses, consisting of:

- (a) eight Literature courses: 29-141 and 29-357; plus two of 29-252, 29-253, 29-255, 29-350; and two of 29-257, 29-353, 29-354, 29-356; plus two of 29-270, 29-284, 29-383, 29-385;
- (b) seven Language Training courses: 29-121, 29-122, 29-215 (or 29-315), 29-221, 29-222; and two of 29-325, 29-328, 29-329;
- (c) four Linguistics courses: 29-230 and 29-231; and 29-330, 29-332;
- (d) two additional courses from 29-260, 29-281, 29-383, 29-385 or Special Topics (400-level),
- (e) two additional courses from any area in French.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Arts or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) ten courses from any area of study, excluding French;
- (b) one course from any area of study, including French.

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<a href="#">Certificate Programs</a>	(a) seven Literature courses: 29-141, 29-357 plus two of 29-252, 29-253, 29-255, 29-350; and two of 29-257, 29-353, 29-354, 29-356; and one of 29-270, 29-284, 29-383, 29-385;
	(b) six Language Training courses: 29-121, 29-122, 29-215 (or 29-315), 29-221, 29-222; and one of 29-325, 29-328, 29-329;
	(c) three Linguistics courses: 29-230 and 29-231; and one of 29-330, 29-332;
	(d) one additional courses from 29-260, 29-281, 29-283, 29-385, Special Topics (400-level) courses.
	<i>Major requirements-Other Subject: as prescribed by that area of study.</i>
<a href="#">Minors</a>	<i>Option requirements: six courses including</i>
<a href="#">Courses</a>	(a) two courses from Social Sciences;
<a href="#">Alphabetical by Department</a>	(b) two courses from Arts or Science;
	(c) two courses from any area of study, excluding Arts.
	<i>Other requirements: additional options (if required) to a total of forty courses.</i>
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## FACULTY OF SCIENCE

### Bachelor of Science (General Science)

*Total courses:* thirty.

*Major requirements:* 14 courses

(a) six Science "core" courses, consisting of three, two-course sequences chosen from both 55-140 and 55-141; both 59-140 and 59-141; both 60-104 and 60-106 (or 60-205), or both 60-140 and 60-141; both 61-140 and 61-141; both 62-130 and 65-205 (or both 62-140 and 62-141, or both 62-140 and 65-205); both 64-140 and 64-141; both 67-100 and 67-102; (b) eight additional Science courses, consisting of any four courses at the 200 level or above from two of the areas of concentration selected above. (Some areas of study offer courses which may not be taken for credit by students majoring in the area of study. Such courses may not be taken to satisfy this requirement.)

*Other requirements:*

(a) four additional Science courses;

(b) four courses from Arts/Languages and Social Sciences, with at least one from each;

(c) eight courses from any area of study.

At least four courses in the areas of Science concentration must be at the 300 level or above and may be counted as courses in Major requirements (b) or Other requirements (a) or (c).

### Standing Required for Continuation in the B.Sc. (General Science) Program

### Standing Required for Graduation from the B.Sc. (General Science) Program

In order to graduate from the B.Sc. (General Science) program, a student must obtain a cumulative average of 5.0 or better in all courses and an average of 5.0 or better in all required Faculty of Science courses in these programs.

Students receiving the B.Sc. (General Science) degree will have the designation, "General Science" respectively indicated on their transcripts.

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## FACULTY OF SCIENCE

### Bachelor of Science (General Science) Degree Completion Program

This program is for graduates of a College diploma program in Medical Laboratory Technology (Science). Please contact the Office of the Registrar for further details of this program, which can be completed by Flexible Learning, or on-campus. Students admitted to this program should seek academic counselling in the Faculty of Science Office.

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## FACULTY OF SCIENCE

### Concurrent Bachelor of Science (General Science) Degree / Medical Laboratory Science Diploma

The Concurrent Bachelor of Science (General Science) Degree/Medical Laboratory Science Diploma Program is offered jointly over four years by the Faculty of Science of the University and the Department of Health Sciences of St. Clair College. The aim is to provide the opportunity and training to individuals who wish to pursue a career in health care primarily in the area responsible for the quality of health care laboratory testing.

Graduates of this program will receive both a degree from the University and a diploma from St. Clair College. The program includes a clinical internship in a hospital or private health care testing laboratory and graduates will acquire the necessary skills and knowledge to apply for national registration with the Canadian Society for Medical Laboratory Science (CSMLS). Students attend courses offered at either the University or St. Clair College and in some terms attend both institutions.

In the list that follows, substitutes can be considered for courses marked with an asterisk, provided the alternatives still meet the requirements of the B.Sc. General Science degree. However the list presented includes the courses likely to be useful to graduates in clinical practice or in the national registration examinations (CSMLS).

#### PROGRAM REQUIREMENTS

An asterisk (\*) in the list below indicates a course that is required for credit transfer to the MLS Diploma.

#### FIRST YEAR

##### Fall Term

University of Windsor Courses  
 55-141.\* Biological Diversity  
 55-202.\* Human Anatomy  
 55-204.\* Physiology I  
 59-140.\* General Chemistry I  
 62-140.\* Calculus A or 62-130.\* Elements of Calculus

##### Winter Term

University of Windsor Courses  
 55-140.\* Cell Biology  
 55-205.\* Physiology II  
 59-141.\* General Chemistry II  
 65-205.\* Statistics for the Sciences  
 26-100.\* Composition

St. Clair College Courses  
 MDL-110. Med. Lab. Orientation and Skills

##### Spring Term

St. Clair College Courses  
 MDL-303. Instrumental Techniques  
 MDL-306. Anatomy and Physiology Laboratory  
 MDL-307. Introduction to Clinical Laboratory  
 MDL-316. Clinical Immunology  
 MDL-317B. Introductory Microbiology Laboratory only

#### SECOND YEAR

##### Fall Term

University of Windsor Courses  
 55-211.\* Genetics  
 55-238.\* Introductory Microbiology with Laboratory  
 59-230.\* Introductory Organic Chemistry

St. Clair College Courses  
 MDL-427A. Clinical Chemistry A  
 MDL-435A. Histotechnology/Histology A

##### Winter Term

University of Windsor Courses  
55-213.\* General Physiology  
59-261.\* Organic Chemistry of Biomolecules  
60-104. Computer Concepts

St. Clair College Courses  
MDL-427B. Clinical Chemistry B  
MDL-435B. Histotechnology/Histology B

*Summer Term*

University of Windsor Courses  
02-XX-XX1. Social Science Option  
60-205. Introduction to the Internet

**THIRD YEAR**

*Fall Term*

University of Windsor Courses  
55-350. Molecular Cell Biology or 55-352. Medical Microbiology  
59-362. Intermediary Metabolism I  
71-140. Principles of Management

St. Clair College Courses  
MDL-426A. Clinical Microbiology A  
MDL-428A. Hematology A  
MDL-429A. Transfusion Science A

*Winter Term*

St. Clair College Courses  
MDL-426B. Clinical Microbiology B  
MDL-428B. Hematology B  
MDL-429B. Transfusion Science B  
MDL-420. Mycology and Parasitology

*Summer Term*

Hospital Internship- 32 continuous weeks begins  
MDL-505. Clinical Chemistry Internship  
MDL-519. Clinical Microbiology Internship  
MDL-522. Hematology Internship  
MDL-523. Histotechnology Internship  
MDL-524. Clinical Work Experience  
MDL-525. Transfusion Science Internship  
MDL-706G. Change and the Workplace

**FOURTH YEAR**

*Fall Term*

Hospital Internship continues  
MDL-505. Clinical Chemistry Internship  
MDL-519. Clinical Microbiology Internship  
MDL-522. Hematology Internship  
MDL-523. Histotechnology Internship  
MDL-524. Clinical Work Experience  
MDL-525. Transfusion Science Internship  
MDL-706G. Change and the Workplace

*Winter Term*

University of Windsor Courses  
03-xx-xx2. Science Option  
03-55-xx3. Biology Option  
59-363. Intermediate Metabolism II  
02-xx-xx1. Social Science Option(recommend 46-116)  
71-243. Human Resources Management

*Summer Term*

Review for CSMLS Examinations  
MDL-920. Hematology Review

MDL-921. Transfusion Science Review  
MDL-922. Histotechnology Review  
MDL-923. Clinical Microbiology Review  
MDL-924. Clinical Chemistry Review

#### *CLINICAL PLACEMENTS*

Directed observation and work study will be arranged by St. Clair College at an accredited hospital or private laboratory to include practical experience in the medical laboratory technology profession in Ontario.

#### *STANDING REQUIRED FOR CONTINUATION*

- 1) In addition to complying with the general university regulations students must also maintain a program G.P.A. and a term G.P.A. of 2.00 or better in all courses taken at St. Clair College.
- 2) If a student has not met the minimum G.P.A. requirements at the end of any term, the student automatically will be placed on probation.
- 3) If, at the end of the Winter term, a student has not met the minimum G.P.A. requirements at the College, the student's record will be referred to the Academic Standing Committee for decision. An Academic Warning will be issued by St. Clair College if, at the end of the semester, 15% of the St. Clair College program credit hours have been failed.
  - (a) If the required degree G.P.A. at the University is between 4.0 and 4.9, or at the end of a semester, the St. Clair College program semester G.P.A. falls below 2.00, and if not more than 32% of the St. Clair College program credit hours have been failed, the student normally will be allowed to continue on probation until the next evaluation period.

By the subsequent evaluation period, the required degree G.P.A. and the diploma program and term G.P.A. must be at least 5.0 and 2.00 respectively, or the student will be required to withdraw.

- (b) If the degree G.P.A. at the University is below 4.0, or if the diploma program or term G.P.A. is below 2.00 for two consecutive semesters, or if the student has failed three or more diploma courses (or the same course twice), or more than 32% of diploma program hours, the student normally will be required to withdraw.

- 4) A student who has been required to withdraw from the Concurrent program may not apply for re-admission to the Concurrent program, but may be permitted to transfer to an alternative degree program at the University, or a diploma program at St. Clair College with approval from the Associate Dean of the Faculty of Science and the Chair of Health Sciences at St. Clair College. However, in most cases a student who has been required to withdraw may not register in the Faculty of Science at the University for twelve months and may not apply for re-admission to another program in the Faculty of Science at the University before the subsequent Summer term.

#### *STANDING REQUIRED FOR GRADUATION*

In addition to complying with the general University regulations students must obtain a diploma program and final term G.P.A. of 2.00 or better in St. Clair College courses.

Graduates of the program will receive both the Bachelor of Science (General Science) degree from the University and the Medical Laboratory Science diploma from St. Clair College.

St. Clair College does not issue a professional entry to practice. Registration requires successful completion of examinations from the Canadian Society of Medical Laboratory Science (CSMLS). Upon successful completion of the CSMLS exams the graduate may apply for registration with the College of Medical Laboratory Technologists of Ontario for a license to practice in Ontario.

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## EARTH AND ENVIRONMENTAL SCIENCES / COMPUTER SCIENCE

### Honours Geoinformatics

There is a growing demand for people who have an understanding of information technology and application development, as well as the physical and environmental systems that they represent. Advances in geospatial technology have led to a need for graduates who can organize and analyze spatial data using Global Positioning Systems, Geographic Information Systems, and Remote Sensing methods. The Geoinformatics degree is designed to address these needs, and will provide students with the knowledge and skills that comes from integrating the disciplines of Earth and Environmental Sciences and Computer Science.

*Total courses:* forty.

*Major requirements-Earth and Environmental Sciences:* fourteen courses, consisting of 61-140, 61-141, 61-232, 67-100, 67-102, 67-210, 67-246, 67-280, 67-310, 67-402, and 67-410; plus three of 61-220, 61-224, 61-230, 61-231, 61-323, 61-326, 61-328, 61-430, 61-436, 67-220, 67-221, 67-320, and 67-370.

*Major requirements-Computer Science:* eleven courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-254, 60-256, 60-265, 60-315, 60-322, 60-330, and 60-334.

*Major requirements-Earth and Environmental Sciences or Computer Science:* 60-499 (a 6.0 credit course) or 61-499 (a 6.0 credit course), or two additional courses numbered 60-, 61-, or 67- (as chosen in consultation with an advisor).

*Other requirements:*

(a) one pair of both 55-140 and 55-141, or both 59-140 and 59-141, or both 64-140 and 64-141;

(b) 62-120, 62-130, and 65-205;

(c) eight options from any area of study, including Earth and Environmental Sciences or Computer Science, with at least one from each of Arts and Social Sciences.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Geology

*Note:* Students should consult with an Earth and Environmental Sciences advisor before making elective course choices to make sure that the choices conform to the requirements for professional licensure as a geoscientist.

*Total courses:* forty.

*Major requirements:* twenty-three courses, including 61-140, 61-141, 61-220, 61-224, 61-230, 61-231, 61-232, 61-280, 61-327, 61-380, 61-436, plus twelve additional Geology courses from 61-320, 61-321, 61-323, 61-324, 61-326, 61-328, 61-420, 61-424, 61-429, 61-430, 61-499, 67-100, 67-210, 67-246, 67-402.

Students who intend continuing on to graduate studies should take 61-499 (Thesis).

*Other requirements:*

(a) ten courses from Mathematics and Science, including 59-140, 59-141, 62-130 (62-140 and 62-141) and 65-205.

Additional courses must be selected from those courses that count towards a major in the other discipline;

(b) two courses from the Faculty of Arts and Social Sciences.

(c) five additional courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 59-140, 59-141, 61-140, 61-141, 62-130, 65-205.

*Second Year:* ten courses, including 61-220, 61-224, 61-230, 61-231, 61-232, and 61-280.

*Third Year:* ten courses, including 61-327 and 61-380.

*Fourth Year:* ten courses, including 61-436.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Geology with Thesis

*Note:* Students should consult with an Earth and Environmental Sciences advisor before making elective course choices to make sure that the choices conform to the requirements for professional licensure as a geoscientist.

*Total courses:* forty.

*Major requirements:* twenty-three courses, including 61-140, 61-141, 61-220, 61-224, 61-230, 61-231, 61-232, 61-280, 61-327, 61-380, 61-436, 61-499\*, plus ten additional Geology courses from 61-320, 61-321, 61-323, 61-324, 61-326, 61-328, 61-420, 61-424, 61-429, 61-430, 67-100, 67-210, 67-246, 67-402.

\*It should be noted that only students who have maintained a major G.P.A. of 8.0 and a cumulative G.P.A of 5.0 will be permitted to enroll in 61-499.

*Other requirements:*

(a) ten courses from Mathematics and Science, including 59-140, 59-141, 62-130 (62-140 and 62-141) and 65-205.

Additional courses must be selected from those courses that count towards a major in the other discipline;

(b) two courses from the Faculty of Arts and Social Sciences.

(c) five additional courses from any area of study.

### RECOMMENDED COURSE SEQUENCE

*First Year:* ten courses, including 59-140, 59-141, 61-140, 61-141, 62-130, 65-205.

*Second Year:* ten courses, including 61-220, 61-224, 61-230, 61-231, 61-232, and 61-280.

*Third Year:* ten courses, including 61-327 and 61-380.

*Fourth Year:* ten courses, including 61-436 and 61-499.

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## HISTORY

### General History

*Total courses:* thirty.

*Major requirements:* twelve courses, consisting of:

- (a) two 100-level courses;
- (b) 43-200 and 43-302;
- (c) five additional courses at the 200 level or above;
- (d) three more courses at the 300 level or above.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) four courses from any area of study, including History, but of which only one may be an additional 100-level History course;
- (b) eight courses from any area of study, excluding History.

Up to four of the following courses may be used to satisfy the Major requirements for any History degree: 12-262, 12-263, 12-271, 12-272, 24-130, 24-230, 40-240, 40-241, 95-240, 01-252. (Please note, instructor's permission may be required.) No more than one of this list may be used to satisfy the requirements for a Minor in History.

### **HISTORY: PROGRAM REGULATIONS (and Courses Outside of the Department Which May Be Counted Toward History Requirements)**

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<a href="#">Programs (Listed by Faculty)</a>	<i>Total courses:</i> forty.
<a href="#">Programs (Listed by Department)</a>	<i>Major requirements:</i> twenty courses, consisting of: (a) two 100-level courses; (b) 43-200 and 43-302 and 43-400; (c) five additional courses at the 200 level or above; (d) five more courses at the 300 level or above; (e) five more courses at the 400 level.
<a href="#">Certificate Programs</a>	<i>Option requirements:</i> six courses including (a) two courses from Arts; (b) two courses from Languages or Science; (c) two courses from any area of study, excluding Social Sciences.
<a href="#">Minors</a>	<i>Other requirements:</i> (a) four courses from any area of study, including History; (b) ten courses from any area of study, excluding History. ( <i>Recommended:</i> two or more courses in French or a basic course in statistics and data processing, or computer programs.)
<a href="#">Courses</a>	Up to four of the following courses may be used to satisfy the Major requirements for any History degree: 12-262, 12-263, 12-271, 12-272, 24-130, 24-230, 40-240, 40-241, 95-240, 01-252. (Please note, instructor's permission may be required.) No more than one of this list may be used to satisfy the requirements for a Minor in History.
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## HISTORY

### Combined Honours Programs

*Total courses:* forty.

*Major requirements-History:* sixteen History courses, including:

- (a) two 100-level courses;
- (b) 43-200 and 43-302 or 43-400;
- (c) four additional courses at the 200 level or above;
- (d) four more courses at the 300 level or above;
- (e) four more courses at the 400 level.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:* additional options (if required) to a total of forty.

Up to four of the following courses may be used to satisfy the Major requirements for any History degree: 12-262, 12-263, 12-271, 12-272, 24-130, 24-230, 40-240, 40-241, 95-240, 01-252. (Please note, instructor's permission may be required.) No more than one of this list may be used to satisfy the requirements for a Minor in History.

Fourth year courses are restricted to History Majors and other students with at least semester 5 standing and permission of the instructor.

### **HISTORY: PROGRAM REGULATIONS (and Courses Outside of the Department Which May Be Counted Toward History Requirements)**

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These courses must be selected from the Faculty of Engineering – non-technical electives course listing.</p> <p><i>OUTLINE OF STUDIES</i></p> <p>Note: All students will follow the sequence of study terms shown in their program of study.</p> <p><b>FIRST YEAR</b> (Common to all Engineering programs)</p> <p><b>Fall Term</b></p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Lect.</th> <th style="text-align: center;">Lab.</th> <th style="text-align: center;">Wt.</th> </tr> </thead> <tbody> <tr> <td>85-111.(Engrg. Mech. 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Chemistry)	3	3	4.5	62-140.(Differential Calculus)	3	1	3.5	62-126.(Linear Algebra)	3	1	3.5		Lect.	Lab.	Wt.	85-122.(Engrg. Mech.II)	3	2	4	85-124.(Circuit Analysis I)	3	2	4	85-130.(Graphical Comm.)	1	3	2.5	85-131.(Comp.-Aided Design)	2	2	3	62-141.(Integral Calculus)	3	1	3.5	64-141.(Intro Physics II)	3	3	4.5		Lec	Lab	Wt	85-211.(Comp. Aided Analysis II)	3	1.5	3.75	85-212.(Thermodynamics)	3	1.5	3.75	85-214.(Circuit Analysis II)	3	1.5	3.75	85-217.(Mech. of Def. Bodies)	2	2	3	85-219.(Intro to Engrg. Materials)	3	2	4	62-215.(Vector Calculus)	3	1	3.5		Lec	Lab	Wt	85-222.(Treatment of Expt. Data)	3	1	3.5	85-233.(Fluid Mechanics I)	3	1	3.5	62-216.(Differential Equations)	3	1	3.5	71-140.(Principles of Mgmt.)	3	0	3	One Non-Technical Electives	3	0	3
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**Fall Term**

	Lec	Lab	Wt
91-312.(Operations Research I)	3	2	4
85-313.(Engineering Economy)	3	1.5	3.75
91-327.(Product Quality & Reliability)	3	2	4
91-301.(Human Factors in Engrg.Systems)	3	2	4
91-317.(Systems Analysis & Design)	3	2	4
One Non-Technical Elective			

**Winter Term**

	Lec	Lab	Wt
91-333.(Industrial Health and Safety)	3	2	4
91-321.(Automotive Mfg Process)	3	2	4
91-332.(Stat Methods and DOE for Mfg.)	3	2	4
91-315.(Mfg. Driven Product Design)	3	2	4
One Non-Technical Elective			

**FOURTH YEAR**

**Fall Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
91-422.(Simulation of Industrial Sys)	2	3	3.5
91-413.(Automotive Prod Analysis)	3	1	3.5
91-428.(Facilities & Material Hand)	2	2	4
92-321.(Control Theory I)	3	1	3.5
One Non-Technical Elective			

**Winter Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
85-421.(Engineering & Society)	3	0	3
91-429.(Decision Support System)	3	1	3.5
91-412.(Operations Research II)	3	2	4
One Non-Technical Elective			

**IMSE Technical Electives**

- 70-151.Financial Accounting I
- 70-255.Managerial Accounting I
- 70-256.Management Cost Accounting
- 71-344.Labour Management Relations
- 74-339.Logistics and Supply Chain Management

**Non-Technical Electives**

Non-technical electives must be selected from the Faculty of Engineering's approved list in the Undergraduate Calendar.

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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

### Bachelor of Applied Science in Industrial Engineering - Automotive Manufacturing Systems Engineering Option

Students interested in the Automotive Manufacturing Systems Engineering option are able to begin their specialized studies in the Fall term of the third year. This option includes a series of specialized curriculum in automotive design and manufacturing. This option includes two-technical electives that allow students to select electives that complement their automotive manufacturing systems engineering specialization.

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

#### SECOND YEAR

##### Fall Term

	Lec	Lab	Wt
85-211.(Comp. Aided Analysis II)	3	1.5	3.7.5
85-212.(Thermodynamics)	3	1.5	3.7.5
85-214.(Circuit Analysis II)	3	1.5	3.7.5
85-217.(Mech. of Def. Bodies)	2	2	3
85-219.(Intro to Engrg. Materials)	3	2	4
62-215.(Vector Calculus)	3	1	3.5

##### Winter Term

	Lec	Lab	Wt
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
62-216.(Differential Equations)	3	1	3.5
71-140.(Principles of Mgmt.)	3	0	3
Two Non-Technical Electives			

**THIRD YEAR****Fall Term**

	Lec	Lab	Wt
91-312.(Operations Research I)	3	2	4
85-313.(Engineering Economy)	3	1.5	3.75
91-327.(Product Quality & Reliability)	3	2	4
91-301.(Human Factors in Eng Sys)	3	2	4
91-317.(Systems Analysis & Design)	3	2	4
One IMSE Technical Elective	3	2	4

**Winter Term**

	Lec	Lab	Wt
91-333.(Industrial Health and Safety)	3	2	4
91-321.(Auto Manufacturing Process)	3	2	4
91-332.(Stat Methods and DOE for Mfg.)	3	2	4
91-315.(Mfg. Driven Product Design)	3	2	4
91-311.(Comp Aided Design & Mfg)	3	2	4
One Non-Technical Elective	3	2	4

**FOURTH YEAR****Fall Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
91-422.(Simulation of Industrial Sys)	2	3	3.5
91-413.(Automotive Prod Analysis)	3	1	3.5
91-428.(Facilities & Material Hand)	2	2	4
92-321.(Control Theory I)	3	1	3.5

**Winter Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
85-421.(Engineering & Society)	3	0	3
91-431.(Flexible Mfg Systems)	3	2	4
91-424.(CAM & Measurement)	3	2	4
One IMSE Technical Elective	3	2	4

**IMSE Technical Electives**

70-151.Financial Accounting I  
 70-255. Managerial Accounting I  
 70-256.Management Cost Accounting  
 71-344.Labour Management Relations  
 74-339.Logistics and Supply Chain Management

**Non-Technical Electives**

Non-technical electives must be selected from the Faculty of Engineering's approved list in the Undergraduate Calendar.

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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

### Bachelor of Applied Science in Industrial Engineering - Minor in Business Administration Option

Students interested in a Minor in Business Administration are able to begin their specialized studies in the Fall term of the third year. This option includes a series of specialized curriculum that was specially prepared by the Odette School of Business for Industrial and Manufacturing Systems Engineering undergraduate students. This option includes three required non-technical electives and one additional course. The Minor in Business Administration is administered by the Odette School of Business.

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

#### SECOND YEAR

##### Fall Term

	Lec	Lab	Wt
85-211.(Comp. Aided Analysis II)	3	1.5	3.75
85-212.(Thermodynamics)	3	1.5	3.75
85-214.(Circuit Analysis II)	3	1.5	3.75
85-217.(Mech. of Def. Bodies)	2	2	3
85-219.(Intro to Engrg. Materials)	3	2	4
62-215.(Vector Calculus)	3	1	3.5

##### Winter Term

	Lec	Lab	Wt
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
62-216.(Differential Equations)	3	1	3.5
71-140.(Principles of Management)	3	0	3
Two Non-Technical Electives			

**THIRD YEAR****Fall Term**

	Lec	Lab	Wt
91-312.(Operations Research I)	3	2	4
85-313.(Engineering Economy)	3	1.5	3.75
91-327.(Product Quality & Reliability)	3	2	4
91-301.(Human Factors in Eng Sys)	3	2	4
91-317.(Systems Analysis & Design)	3	2	4
70-151.(Financial Accounting I)	3	0	3

**Winter Term**

	Lec	Lab	Wt
91-333.(Industrial Health and Safety)	3	2	4
91-390.(Intro to Supply Chain Eng)	3	2	4
91-332.(Stat Methods, and DOE for Mfg.)	3	2	4
91-315.(Mfg. Driven Product Design)	3	2	4
70-255.(Managerial Accounting I)	3	0	3
One Non-Technical Elective			

**FOURTH YEAR**

	Lec	Lab	Wt
70-256.(Managerial Cost Accounting)*	3	0	3

\*Additional required course not credited towards the B.A.Sc.

**Fall Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
91-422.(Simulation of Industrial Sys)	2	3	3.5
91-413.(Automotive Prod Analysis)	3	1	3.5
91-428.(Facilities & Material Hand)	2	2	4
92-321.(Control Theory I)	3	1	3.5
71-243.(Human Resource Mgt)	3	0	3

**Winter Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
85-421.(Engineering & Society)	3	0	3
91-429.(Decision Support System)	3	1	3.5
91-412. (Operations Research II)	3	2	4
74-231.(Principles of Marketing)	3	0	3

**Non-Technical Electives**

Non-technical electives must be selected from the Faculty of Engineering's approved list in the Undergraduate Calendar.

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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

### Bachelor of Applied Science in Industrial Engineering - Supply Chain Engineering Option

Students interested in the Supply Chain Engineering option are able to begin their specialized studies in the Fall term of the third year. This option includes a series of specialized curriculum in operations research. This option includes two technical electives and three non-technical electives allowing students to select electives that complement their supply chain engineering specialization.

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

#### SECOND YEAR

##### Fall Term

	Lec	Lab	Wt
85-211.(Comp. Aided Analysis II)	3	1.5	3.75
85-212.(Thermodynamics)	3	1.5	3.75
85-214.(Circuit Analysis II)	3	1.5	3.75
85-217.(Mech. of Def. Bodies)	2	2	3
85-219.(Intro to Engrg. Materials)	3	2	4
62-215.(Vector Calculus)	3	1	3.5

##### Winter Term

	Lec	Lab	Wt
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
62-216.(Differential Equations)	3	1	3.5
71-140.(Principles of Mgmt.)	3	0	3
Two Non-Technical Electives			

**THIRD YEAR**

**Fall Term**

	Lec	Lab	Wt
91-312.(Operations Research I)	3	2	4
85-313.(Engineering Economy)	3	1.5	3.75
91-327.(Product Quality & Reliability)	3	2	4
91-301.(Human Factors in Eng Sys)	3	2	4
91-317.(Systems Analysis & Design)	3	2	4
One IMSE Technical Elective	3	2	4

**Winter Term**

	Lec	Lab	Wt
91-333.(Industrial Health and Safety)	3	2	4
91-390.(Intro to Supply Chain: Logistics)	3	2	4
91-332.(Stat Methods and DOE for Mfg.)	3	2	4
91-315.(Mfg. Driven Product Design)	3	2	4
One Non-Technical Elective	3	2	4

**FOURTH YEAR**

**Fall Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
91-422.(Simulation of Industrial Sys)	2	3	3.5
91-413.(Automotive Prod Analysis)	3	1	3.5
91-428.(Facilities & Material Hand)	2	2	4
92-321.(Control Theory I)	3	1	3.5
One IMSE Technical Elective	3	1	3.5

**Winter Term**

	Lec	Lab	Wt
91-400.(Capstone Design Project)	1	8	5/term
85-421.(Engineering & Society)	3	0	3
91-429.(Decision Support System)	3	1	3.5
91-412.(Operations Research II)	3	2	4
91-492.(Logistics and Distribution)	3	2	4

**IMSE Technical Electives**

- 70-151.Financial Accounting I
- 70-255.Managerial Accounting I
- 70-256.Management Cost Accounting
- 71-344.Labour Management Relations
- 74-339.Logistics and Supply Chain Management

**Non-Technical Electives**

Non-technical electives must be selected from the Faculty of Engineering's approved list in the Undergraduate Calendar.

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## FACULTY OF ARTS AND SOCIAL SCIENCES

### B.A. in Interdisciplinary Studies

This program will introduce students to a broad base of liberal studies in many disciplines, particularly focusing on Canadian culture. The program will also give them new ways of thinking about their place in society and help them either to pursue further studies leading to more advanced degrees at the University of Windsor or elsewhere or to acquire fulfilling careers. The program is to be provided jointly with Lambton College in Sarnia.

The courses in the program are offered by University of Windsor instructors on the Lambton College Campus and through Distance Education (DE) or partial DE from Windsor.

*Total courses:* 30 courses and 1 non-credit career evaluation workshop.

*Requirements and Program Sequencing:*

#### Year 1

##### Fall

*Courses offered on Lambton College campus:*

Acc 100-4. (Accounting Theory & Practice I)

Ant 100-3. (Intro to Physical Anthropology)

His 100-3. (History of Western Civilizations I)

Psy 100-3. (Psychology I)

*Courses offered through Distance Education (DE) or Partial DE:*

01-150. (Foundations of Academic Writing I)

OR

26-100. (Composition)

##### Winter

*Courses offered on Lambton College campus:*

Acc 200-4. (Accounting Theory & Practice. II)

Ant 200-3. (Intro to Cultural Anthropology.)

His 200-3. (History of Western Civilizations II)

Psy 200-3. (Psychology II)

*Courses offered through Distance Education (DE) or Partial DE:*

74-231. (Principles of Marketing)

#### Year 2

##### Fall

*Courses offered on Lambton College campus:*

ITS 100-3. (Information Technology Skills)

Phil 120-3. (Ethics & Values)

Pol 100-3. (Canadian Politics & Government I)

Soc 201-6 (1st part). (Introduction to Sociology)

*University of Windsor:*

43-243. (Canadian History I)

#### Year 2

##### Winter

*Courses offered on Lambton College campus:*

Phil 220-3. (Business & Professional Ethics)

Pol 200-3. (Canadian Politics & Government II)

Soc 201-6 (2nd part). (Introduction to Sociology)

*Courses offered through Distance Education (DE) or Partial DE::*

43-244. (Canadian History II)

60-205. (Introduction to the Internet)

Career Evaluation Workshop: Attendance by all students is expected. (A notation will be added to the student's transcript upon successful completion of the workshop)

#### Year 3

##### Fall

*Courses offered through Distance Education (DE) or Partial DE:*

07-322. (God and Atheism in West. Culture)

26-260. (Canadian Literature)

45-323. (Government and Business)

53-201. (Women and Diversity)



73-213. (Intro. to Management Info. Systems)

**Year 3**

**Winter**

*Courses offered through Distance Education (DE) or Partial DE:*

02-300. (Remembering Canada in the Global Village)

07-323. (God and Evil in Western Culture)

28-345. (Art of the 20th Century)

54-200. (Labour and State)

60-305. (Cyber Ethics)

*Note:* In addition to the courses there will be a non-credit career evaluation workshop at the end of the second year which students will be expected to attend. A notation will be added to the students' transcripts upon successful completion of the workshop.

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## FACULTY OF LAW

### Intellectual Property Law Program

The Intellectual Property Law Institute (I.P.L.I.) was created in 1987 through the efforts of the State Bar of Michigan and the law faculties of The University of Detroit Mercy, Wayne State University, and the University of Windsor.

Intellectual property is one of the most innovative, exciting, challenging, and rewarding areas of the law. The I.P.L.I. is dedicated to providing basic and advanced legal education and furthering knowledge, scholarship, and research in the law governing the richly diverse fields of intellectual property: patents, copyrights, trademarks, trade secrets and know-how, computers and related technology, communications and media entertainment, technology transfer, trade regulation, and the arts.

The primary purpose of the I.P.L.I. is to offer an exceptional and rich curriculum for students and lawyers in the field of intellectual property. I.P.L.I. courses have the advantage of sharing the resources of three law schools, as well as the experience and expertise of practicing members of the Michigan Bar Association. In particular, each course deals with appropriate American and Canadian jurisprudence.

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Business language (3 hrs) (to be developed)  
71-243  
72-271  
73-213  
73-220  
YEAR 3

Study abroad year

FALL

3 business courses or equivalent – at least 2 courses in cognate language  
71-492. Research project and paper preparation (first half) (6.0 credit course for students in the IB program.)

WINTER

3 business courses or equivalent – at least 2 courses in cognate language  
71-492. Research project and paper preparation (second half) (6.0 credit course for students in the IB program.)

YEAR 4

FALL

75-393  
71-383  
73-331  
1 Culture Course

WINTER

75-498  
75-490  
75-397  
1 capstone language course

**\*Culture Course Options**

*[Some of these courses will require consent of the instructor or special permission for students to enrol.]*

Social Justice Studies

38-101. Introduction to Social Justice

Economics

41-341. Economic Growth and Development Theory

Political Science

45-160. Issues in World Politics

45-170. Introduction to Diaspora Studies: There's No Place Like Home

Sociology and Anthropology

48-226. Introduction to International Development

48-227. Globalization and Social Change

48-240. Ethnic Relations in Canada

48-241. Race and Racism in Canada

48-321. Formal Organizations in Comparative Perspective

48-352. Gender and International Development

48-411. Challenging Global Development

49-112. Culture in Comparative Perspective

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## INTERNATIONAL RELATIONS AND DEVELOPMENT STUDIES

### Honours International Relations and Development Studies

*Total courses:* forty.

*Major requirements:* eighteen courses, consisting of:

(a) 45-100, 45-160, 45-238, 45-264, 45-252, 45-275, 45-461, 45-462; and one of 45-360 or 45-464;

(b) 41-110, 41-111, 41-221, 41-231;

(c) 43-123, 43-124, and two from 43-218, 43-243, 43-244, 43-326, 43-437, 43-445, 43-446, 43-462;

(d) one of 48-226 (or 49-226)\*, 48-227\*, 48-375 (or 49-375)\*.

\* May be taken without prerequisites.

*Additional Major Requirements:* either International Relations or International Development Streams.

### INTERNATIONAL RELATIONS STREAM

(a) 45-355, and four of 45-244, 45-260, 45-261, 45-267, 45-268, 45-346, 45-354, 45-356, 45-360\*\*, 45-361, 45-363, 45-365, 45-367, 45-371, 45-372, 45-373, 45-465, 45-470;

(b) two of 41-373 and 41-374 (strongly recommended), 41-330, 41-341, 41-350, 41-353, 41-440;

(c) one of 43-218\*\*, 43-326\*\*, 43-437\*\*, 43-445\*\*, 43-446\*\*, 43-462\*\*;

(d) one of 07-235, 07-236, 53-260, 53-340

(e) one of 48-226 (or 49-226)\*\*, 48-227\*\*, 48-232 (or 49-232), 48-327 (or 54-327), 48-330 (or 49-330), 48-340 (or 49-340), 48-375\*\* .;

\*\* If not already taken as a major requirement.

### INTERNATIONAL DEVELOPMENT STREAM

(a) 45-354, and four of 45-233, 45-241, 45-260, 45-261, 45-268, 45-346, 45-355, 45-365, 45-371, 45-372, 45-373, 45-431, 45-465, 45-470;

(b) two of 41-341 (strongly recommended), 41-230, 41-353, 41-373, 41-374, 41-440;

(c) one of 07-235, 07-236, 53-260, 53-340;

(d) two of 48-226 (or 49-226)\*\*, 48-227\*\*, 48-232 (or 49-232), 48-327 (or 54-327), 48-330 (or 49-330), 48-340 (or 49-340), 48-352 (or 49-352), 48-375\*\*, 48-411 (or 49-411);

\*\* If not already taken as a major requirement.

### Other Requirements:

(a) 02-250 or an equivalent introductory statistics course.

(b) eleven options. It is strongly recommended that the equivalent of a language minor be taken, equalling six courses -- see below. Students with minimal computer skills should take 60-104 early in their programs and students may wish to take 34-160 (Reasoning Skills) as an option. As well, students are encouraged to consider a third-year study abroad program as an opportunity to develop fluency and for exposure to different cultures.

### LANGUAGE MINORS (Recommended)\*\*\*

*French* (constructed for students with Grade 12"U" French): 29-121, 29-122, 29-221, 29-222, 29-260, 29-270.

*German* (constructed for students with no background in German): 15-100, 15-101, 15-200, 15-260, 15-261; one of 15-210, 15-211.

*Italian* (constructed for students with no background in Italian): 21-100, 21-101, 21-200, 21-225; plus 21-260, 21-261.

*Spanish* (constructed for students with no background in Spanish): 23-100, 23-101, 23-200, 23-205, 23-260, 26-261.

\*\*\*A flexible approach will be taken to accommodate students with different levels of linguistic competence at point of entry into the program.

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## KINESIOLOGY

### Bachelor of Human Kinetics (Honours Kinesiology) Leisure and Sport Management Major

Students completing this major will be interested in examining leisure from a social science perspective and/or preparing for employment opportunities related to the administration of leisure, sport and physical activity programs. Graduates typically assume positions with government agencies, municipal recreation, units, public and private recreation units, public and private recreation centres, and amateur or professional sports organizations. Graduates also are prepared to enter graduate school or a faculty of education.

*Total courses:* forty.

*Major requirements:* twenty courses, consisting of the Human Kinetics "Core", and seven non-Kinesiology options.

*Other requirements:*

In addition, twelve additional Leisure and Sport Management Major courses are required.

Eight more courses are to be chosen as follow:

(a) four courses from any area of study, including Human Kinetics (95-);

(b) four courses from any area of study, excluding Human Kinetics (95-).

Of the eight courses in (a) and (b) above, at least six must be at the 200 level or above.

## KINESIOLOGY: "CORE" COURSES, AREAS OF STUDY, AND FIRST AND SECOND YEAR COURSE SEQUENCE

## KINESIOLOGY: CO-OPERATIVE EDUCATION PROGRAM

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## KINESIOLOGY

### Bachelor of Human Kinetics (Honours Kinesiology) Movement Science Major

Students selecting this major will be interested in entering the general field of science as it relates to human activity as teachers, exercise consultants, sport therapists, athletic trainers, ergonomic specialists in the biomechanics of movement, and human performance specialists in motor development and memory. This program is recognized by the Ontario Kinesiology Association. Those interested in graduate studies in Movement Science should select this major. Graduates are also qualified to enter a Faculty of Education.

*Total courses:* forty.

*Major requirements:* twenty courses, consisting of the Human Kinetics "Core" and seven non-Kinesiology options, at least two of which must be Sciences.

*Other requirements:*

In addition, twelve Movement Science Major courses are required.

Eight more courses are to be chosen as follow:

(a) four courses from Science, Engineering, Nursing, or Psychology;

(b) four courses from Science, Engineering, Psychology, Nursing, or Human Kinetics (95-).

Of the eight courses in (a) and (b) above, at least six must be at the 200 level or above, and only one of Psychology 46-223, 46-224, 46-225, or 46-323 is permitted.

### KINESIOLOGY: "CORE" COURSES, AREAS OF STUDY, AND FIRST AND SECOND YEAR COURSE SEQUENCE

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	<b>LABOUR STUDIES</b>
	<b>General Labour Studies</b>
	<i>Total courses:</i> thirty.
	<i>Major Requirements:</i> sixteen courses, including (a) 54-100 and 54-105; 54-200; 54-204; 54-301; 54-318, 54-349 (or 43-349); 54-225 (or 48-225); or 54-326 (or 48-326); (b) one of 40-234, 45-275, 48-210, 48-310; (c) six of: 54-237, 54-327 (or 48-327), 46-370, 46-371, 48-228, 48-321, 48-332, 53-100, 71-344, 40-225 (or 40-325 or 40-425), 71-446 (or 71-448 or 71-449 or 71-481).
	<i>Option requirements:</i> six courses including (a) two courses from Arts; (b) two courses from Languages or Science; (c) two courses from any area of study, excluding Social Sciences.
	<i>Other Requirements:</i> (a) four Social Sciences courses, with at least two at the 300 level or above. (b) four courses from any area of study, excluding Social Sciences.
	<b>CALCULATION OF AVERAGE</b>
	The major average shall be calculated on the basis of grades obtained in the Required courses listed in (a), (b), and (c) above.
	<b>RECOMMENDED COURSE SEQUENCE</b>
	<b>First Year</b> 54-100 (or 54-105), 53-100, three 100-level Social Sciences courses (see (d) above), and five other 100-level courses.
	<b>Second Year</b> 54-200, 54-204, one of 40-234, 45-275, 48-210, 48-310, 48-225 plus one or two 200 level courses from Major Requirements (c) and additional courses to a total of ten.
	<b>Third Year</b> 54-301, 48-326, 43/54-349 and three 300 level courses from Major Requirements (c) above plus two to three 300 level social science courses under Other Requirements (a) above , and additional courses to a total of ten.
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<a href="#">Hot Tips</a>	<b>Combined Honours Labour Studies</b>
<a href="#">Glossary</a>	<i>Total courses: forty.</i>
<a href="#">Search the Undergraduate Calendar</a>	<i>Major requirements - Labour Studies: thirteen courses, including</i> (a) 54-100 and 54-105; 54-200; 54-204; 54-301; 54-318; 54-349 (or 43-349); 54-225 ( or 48-225); or 54-326 (or 48-326); (b) one of 40-234, 45-275, 48-210, 48-310; (c) three of: 54-237, 54-327, 46-370, 46-371, 48-228, 48-321, 48-332, 53-100, 71-344, 40-225 (or 40-325 or 40-425), 71-446 (or 71-448 or 71-449 or 71-481);
<a href="#">Programs and Certificates</a>	<i>Major requirements - Other Subject: as prescribed by that area of study.</i>
<a href="#">Programs (Listed Alphabetically)</a>	<i>Option requirements: six courses including</i> (a) two courses from Arts; (b) two courses from Languages or Science; (c) two courses from any area of study, excluding Social Sciences.
<a href="#">Programs (Listed by Faculty)</a>	<i>Other requirements: additional courses (if required) to a total of forty.</i>
<a href="#">Programs (Listed by Department)</a>	It is strongly recommended that students obtain academic advising from the Co-ordinator of Labour Studies.
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## LANGUAGE AND LOGIC

### Combined Honours Language and Logic

*Total courses:* forty

*Major requirements-Language and Logic:* fifteen courses, including:

(a) 07-120, 07-220, 34-160, 34-260, 34-262, 34-360, 60-104;

(b) two non-English language courses above the OAC level or its equivalent, e.g., French, German, Greek, Italian, Japanese, Latin, Ojibwe, Spanish;

(c) six of 24-210, 26-290, 26-291, 29-230\*, 29-231\*, 29-330\*, 29-332\*, 29-431\*, 29-434\*, 34-261, 40-101, 40-202, 40-250, 40-275, 53-270.

\*Courses taught in French; the prerequisites for these courses are 29-121, 29-122 or permission of the instructor. These two language courses can be taken to fulfill major requirement (b).

*Major requirements-Other Subject:* as prescribed by that area of study.

*Option requirements:*

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(b) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) additional courses (if necessary) from any area of study, to a total of forty courses.

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## FACULTY OF LAW

### Bachelor of Laws (LL.B.)

The program leading to the degree of Bachelor of Laws (LL.B.) requires full-time attendance for three years, or half-time attendance for six years.

The first year consists of a core of mandatory courses in all of the fundamental areas, problems, and principles of the law, with somewhat more stress upon public law and perspective courses than upon the traditional, first-year law curriculum.

The second and third years allow some variation in course work and research, while including certain common program requirements.

Details of the program, its regulations, and course descriptions are outlined in the separate Faculty of Law Calendar, which may be obtained from the Law Admissions Office.

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## FACULTY OF LAW

### J.D./LL.B. Program

The J.D./LL.B. Program is a demanding program of study designed to: educate students to understand the legal doctrines and cultures of both Canada and the United States; help students successfully pass the bar examinations in either country; enable its graduates to practice law in a manner consonant with the highest standards of competence, professional ethics, and concerns for justice as exemplified by the traditions of the legal profession in both countries.

The program requires a student to successfully complete 60 credit hours of course work at the University of Detroit Mercy and 44 credit hours of course work at the University of Windsor. Most mandatory courses require the student to study both U.S. and Canadian law relevant to the subject area.

This program is designed to enable a student to obtain an American Bar Association-approved Doctor of Jurisprudence (J.D.) Degree from the University of Detroit Mercy and the nationally recognized Bachelor of Laws (LL.B.) Degree from the University of Windsor within three calendar years.

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## FACULTY OF LAW/ODETTE SCHOOL OF BUSINESS

### Integrated M.B.A./LL.B. Program

This special program provides students interested in a career which combines legal and business management skills with an opportunity to complete both the M.B.A. and the LL.B. degrees in four years.

For details, consult the separate brochure, or an advisor in either of the Faculties.

### M.B.A./LL.B. Program

This program is designed to enable a student to obtain both an M.B.A. and an LL.B. within four years. Successful applicants will pursue first-year studies separately in the Odette School of Business and the Faculty of Law. Years III and IV of the Integrated Program will involve work in both faculties.

Prospective Integrated program students must gain admission independently to both Faculties; the GMAT and LSAT are both required. To facilitate program planning, interested students are urged to seek admission to both faculties simultaneously. Those admitted are granted a Deferred Admission to the faculty whose first-year studies are to be pursued in the second year of the program.

Applicants seeking to enter the Integrated Program should so signify in the space designated on the application for admission, and return the Application Form for Law before November 1st and the Application Form for the M.B.A. before May 1st. Such students should also make simultaneous application to the Odette School of Business.

**[Click here for more information on the M.B.A./LL.B. program.](#)**

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## FACULTY OF ARTS AND SOCIAL SCIENCES

### General Liberal and Professional Studies

Total courses: thirty, at least sixteen of which must be at the 200 level or above, and at least six of which must be at the 300 level or above. Students may take no more than six courses in any single subject area.

### Requirements

- (a) six courses from Arts and Languages;
- (b) six courses from Social Sciences;
- (c) four courses from Science or Engineering\*;
- (d) four courses from Business Administration;
- (e) ten additional courses from any area of study.

\*The following Engineering courses are available to non-Engineering students: 85-118, 85-130, 85-131, 87-325.

### STANDING REQUIRED

Students in the Liberal and Professional Studies program must maintain a cumulative average of 5.0 or better. There is no major average requirement.

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## MATHEMATICS AND STATISTICS

### Bachelor of Mathematics (General)

*Total courses:* thirty.

*Major requirements:* thirteen courses, including 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-318, 65-250 and 65-251; plus four other courses at the 200 level or above.

*Other requirements:*

(a) 60-140 and 60-141;

(b) four courses from the Faculty of Arts and Social Sciences;

(c) three courses from any area of study, including Mathematics and Statistics;

(d) eight courses from any area of study, excluding Mathematics and Statistics.

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- MATHEMATICS AND STATISTICS**
- Bachelor of Mathematics (Honours)**
- Total courses: forty.
- Major requirements:* twenty-two courses, consisting of 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-314, 62-315, 62-318, 62-321, 65-250, 65-251; plus eight more courses (62- or 65-) at the 300 level or above.
- Other requirements:* 60-140 and 60-141; four courses from Faculty of Arts and Social Sciences, and twelve courses from any area of study.
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## MATHEMATICS AND STATISTICS

### Other Combined Honours Programs

*Honours programs combining Mathematics with a second Honours area of study (other than Computer Science) will consist of:*

*Total courses: forty.*

*Major requirements-Mathematics and Statistics: sixteen courses, including 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-314, 62-315, 62-318, 62-321, 65-250, 65-251; plus two additional courses (62- or 65-) at the 300 level or above.*

*Major requirements-Other Subject: as prescribed by that area of study.*

*Other requirements:*

(a) 60-140 and 60-141;

(b) any additional, non-major requirements as determined by the second area of study;

(c) additional courses, if necessary, from any area of study to a total of forty courses.

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## MATHEMATICS AND STATISTICS / COMPUTER SCIENCE

### Bachelor of Mathematics (Honours Mathematics and Computer Science)

*Total courses: forty.*

*Major requirements-Mathematics and Statistics:* sixteen courses, consisting of 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-314, 62-315, 62-318, 62-321, 65-250, 65-251; plus two courses (62- or 65-) numbered 300 or higher.

*Major requirements-Computer Science:* thirteen courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, and 60-315; plus three additional courses (60-) at the 300 level or above.

*Additional Major requirements:* four further Mathematics, Statistics, or Computer Science courses at the 200 level or above, excluding 60-106, 60-205, 60-207, 60-305, 60-336 and 65-205.

*Other requirements:* seven courses from any area of study.

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## MATHEMATICS AND STATISTICS

### Bachelor of Mathematics (Honours Mathematics and Statistics)

Total courses: forty.

*Major requirements:* twenty-six courses, consisting of 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-314, 62-315, 62-318, 62-321, 65-250, 65-251, 65-350, 65-351; plus two additional Statistics courses (65-) at the 300-level or above; plus eight more courses (62- or 65-) at the 300 level or above.

*Other requirements:* 60-140 and 60-141; four courses from Faculty of Arts and Social Sciences, and eight courses from any area of study.

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## MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING

### Bachelor of Applied Science in Mechanical Engineering

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

#### SECOND YEAR

##### Fall Term

	Lect.	Lab.	Wt.
85-212.(Thermodynamics I)	3	1.5	3.75
92-210.(Dynamics)	3	2	4
62-215.(Vector Calculus)	3	1	3.5
85-217.(Mech. of Def. Bodies I)	2	2	3
85-219. (Intro to Engrg. Materials)	3	2	4

##### Winter Term

	Lect.	Lab.	Wt.
62-216.(Differential Equations)	3	1	3.5
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
92-222.(Analysis of Mechanical Systems)	3	2	4

92-229.(Electric Motors)	3	2	4
87-227.(Mech. of Def. Bod. II)	2	2	3

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR**

**Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)	3	1.5	3.75
92-323.(Machine Dynamics)	3	2	4
92-315.(Mechanical Vibrations)	3	2	4
92-317.(Applied Thermodyn.)	3	2	4
92-320.(Fluid Mechanics II)	3	2	4
Non-Technical Elective	3	2	4

**Winter Term**

(Co-op students only)

85-398.(Work Term III)

**Summer Term**

	Lect.	Lab.	Wt.
92-311.(Stress Analysis I)	3	2	4
92-321.(Control Theory I)	3	1	3.5
92-324.(Engrg. Measurements)	3	1.5	3.75
92-328.(Heat Transfer)	3	2	4
Technical Elective			
Technical Elective			

**FOURTH YEAR**

**Fall Term**

(Co-op students only)

85-498.(Work Term IV)

**Winter Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
92-411.(Machine Design I)	3	3	4.5
42-200.(Resource Mgmt.) or	3	0	3
99-218.(Environmental Law)	3	0	3
Technical Elective			
Technical Elective			
Non-technical Elective			

**Summer Term**

	Lect.	Lab.	Wt.
85-421.(Engrg. and Society)	3	0	3
92-421.(Machine Design II)	3	3	4.5
92-459.(Computer Aided Engrg.-CAE)	2	3	3.5
92-400.(Capstone Design)	2	4	8
Technical Elective			
Technical Elective			

**MECHANICAL TECHNICAL ELECTIVES**

1. All technical electives must be engineering courses at or above the 300 level; maximum of 2 at the 300 level.
2. Minimum of 4 courses numbered 92-XXX.
3. Maximum of 2 courses numbered 89-XXX or 94-XXX.
4. Maximum 1 course in a different engineering program.

**NON-TECHNICAL ELECTIVES**

Non-technical electives must be selected from the approved list in the Undergraduate Calendar.

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## MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING

### Bachelor of Applied Science in Mechanical Engineering with Automotive Option

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

## SECOND YEAR

##### Fall Term

	Lect.	Lab.	Wt.
85-212.(Thermodynamics I)	3	1.5	3.75
92-210.(Dynamics)	3	2	4
62-215.(Vector Calculus)	3	1	3.5
85-217.(Mech. of Def. Bodies I)	2	2	3
85-219.(Intro to Engrg. Materials)	3	2	4

##### Winter Term

	Lect.	Lab.	Wt.
62-216.(Differential Equations)	3	1	3.5
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
92-222.(Analysis of Mechanical Systems)	3	2	4

92-229.(Electric Motors)	3	2	4
87-227.(Mech. of Def. Bod. II)	2	2	3

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR**

**Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)	3	1.5	3.75
92-323.(Machine Dynamics)	3	2	4
92-315.(Mechanical Vibrations)	3	2	4
92-317.(Applied Thermodyn.)	3	2	4
92-320.(Fluid Mechanics II)	3	2	4
Non-Technical Elective	3	2	4

**Winter Term**

(Co-op students only)

85-398.(Work Term III)

**Summer Term**

	Lect.	Lab.	Wt.
92-311.(Stress Analysis I)	3	2	4
92-321.(Control Theory I)	3	1	3.5
92-324.(Engrg. Measurements)	3	1.5	3.75
92-328.(Heat Transfer)	3	2	4
94-330.(Auto.Engrg Fundamentals)	2	4	4
Technical Elective			

**FOURTH YEAR**

**Fall Term**

(Co-op students only)

85-498.(Work Term IV)



**Winter Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
92-411.(Machine Design I)	3	3	4.5
42-200.(Resource Mgmt.) or	3	0	3
99-218.(Environmental Law)	3	0	3
94-463.(Vehicle Dynamics)	3	1	3.5
94-467.(Vehicle Thermal Mgmt.)	3	1	3.5
Non-technical Elective			

**Summer Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
85-421.(Engrg. and Society)	3	0	3
92-421.(Machine Design II)	3	3	4.5
92-459.(Computer Aided Engrg.-CAE)	2	3	3.5
94-465.(Internal Comb. Engines)	3	1	4
Technical Elective			

**AUTOMOTIVE TECHNICAL ELECTIVES**

1. All technical electives must be engineering courses at or above the 300 level; maximum of 1 at the 300 level.
2. Technical Electives are to be selected from courses within the department.
3. Written approval from the Department Head is required to select a maximum of 1 technical elective outside of department.

**NON-TECHNICAL ELECTIVES**

Non-technical electives must be selected from the approved list in the Undergraduate Calendar.

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## MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING

### Bachelor of Applied Science in Mechanical Engineering with Materials Option

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

## SECOND YEAR

##### Fall Term

	Lect.	Lab.	Wt.
85-212.(Thermodynamics I)	3	1.5	3.75
92-210.(Dynamics)	3	2	4
62-215.(Vector Calculus)	3	1	3.5
85-217.(Mech. of Def. Bodies I)	2	2	3
85-219. (Intro to Engrg. Materials)	3	2	4

##### Winter Term

	Lect.	Lab.	Wt.
62-216.(Differential Equations)	3	1	3.5
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
92-222.(Analysis of Mechanical Systems)	3	2	4

92-229.(Electric Motors)	3	2	4
87-227.(Mech. of Def. Bod. II)	2	2	3

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR**

**Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)	3	1.5	3.75
92-323.(Machine Dynamics)	3	2	4
92-315.(Mechanical Vibrations)	3	2	4
92-317.(Applied Thermodyn.)	3	2	4
92-320.(Fluid Mechanics II)	3	2	4
Non-Technical Elective	3	2	4

**Winter Term**

(Co-op students only)

85-398.(Work Term III)

**Summer Term**

	Lect.	Lab	Wt.
92-311.(Stress Analysis I)	3	2	4
92-321.(Control Theory I)	3	1	3.5
92-328.(Heat Transfer)	3	2	4
89-330.(Materials & Properties)	3	2	4
89-331.(Thermo. & Kinetics)	3	2	4
Technical Elective			

**FOURTH YEAR**

**Fall Term**

(Co-op students only)

85-498.(Work Term IV)

**Winter Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
92-411.(Machine Design I)	3	3	4.5
42-200.(Resource Mgmt.) or	3	0	3
99-218.(Environmental Law)	3	0	3
89-420.(Ceramic Materials)	3	1	3.5
89-421.(Deformation & Fracture)	3	2	4
Non-technical Elective			

**Summer Term**

	Lect.	Lab.	Wt.
85-421.(Engrg. and Society)	3	0	3
92-324.(Engrg. Measurements)	3	1.5	3.75
92-421.(Machine Design II)	3	3	4.5
92-400.(Capstone Design)	2	4	8
92-459.(Computer Aided Engrg.-CAE)	2	3	3.5
Technical Elective			

**MATERIALS TECHNICAL ELECTIVES**

1. All technical electives must be engineering courses at or above the 300 level; at least one must be at the 400 level;
2. Technical Electives are to be selected from courses numbered 89-XXX
3. Written approval from the Department Head is required to select a maximum of 1 technical elective outside of 89-XXX courses.

**NON-TECHNICAL ELECTIVES**

Non-technical electives must be selected from the approved list in the Undergraduate Calendar.

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## MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING

### Bachelor of Applied Science in Mechanical Engineering with Environmental Option

#### OUTLINE OF STUDIES

Note: All students will follow the sequence of study terms shown in their program of study.

#### FIRST YEAR

(Common to all Engineering programs)

##### Fall Term

	Lect.	Lab.	Wt.
85-111.(Engrg. Mech. I)	2	2	3
85-118.(Prof. Development)	2	0	2
85-132.(Comp.-Aided Analysis I)	2	2	3
59-110.(Topics in Gen. Chemistry)	3	3	4.5
62-140.(Differential Calculus)	3	1	3.5
62-126.(Linear Algebra)	3	1	3.5

##### Winter Term

	Lect.	Lab.	Wt.
85-122.(Engrg. Mech.II)	3	2	4
85-124.(Circuit Analysis I)	3	2	4
85-130.(Graphical Comm.)	1	3	2.5
85-131.(Comp.-Aided Design)	2	2	3
62-141.(Integral Calculus)	3	1	3.5
64-141.(Intro Physics II)	3	3	4.5

##### Summer Term

(Co-op students only)

85-198.(Work Term I)

## SECOND YEAR

##### Fall Term

	Lect.	Lab.	Wt.
85-212.(Thermodynamics I)	3	1.5	3.75
92-210.(Dynamics)	3	2	4
62-215.(Vector Calculus)	3	1	3.5
85-217.(Mech. of Def. Bodies I)	2	2	3
85-219. (Intro to Engrg. Materials)	3	2	4

##### Winter Term

	Lect.	Lab.	Wt.
62-216.(Differential Equations)	3	1	3.5
85-222.(Treatment of Expt. Data)	3	1	3.5
85-233.(Fluid Mechanics I)	3	1	3.5
92-222.(Analysis of Mechanical Systems)	3	2	4

92-229.(Electric Motors)	3	2	4
87-227.(Mech. of Def. Bod. II)	2	2	3

**Summer Term**

(Co-op students only)

85-298.(Work Term II)

**THIRD YEAR**

**Fall Term**

	Lect.	Lab.	Wt.
85-313.(Engrg. Economy)	3	1.5	3.75
92-323.(Machine Dynamics)	3	2	4
92-315.(Mechanical Vibrations)	3	2	4
92-317.(Applied Thermodyn.)	3	2	4
92-320.(Fluid Mechanics II)	3	2	4
Non-Technical Elective	3	2	4

**Winter Term**

(Co-op students only)

85-398.(Work Term III)

**Summer Term**

	Lect.	Lab.	Wt.
92-311.(Stress Analysis I)	3	2	4
92-321.(Control Theory I)	3	1	3.5
92-324. (Engineering Measurements)	3	1.5	3.75
92-328.(Heat Transfer)	3	2	4
92-428.(Environmental Assessment)	3	2	4
92-455. (Env. Effects and Control of Noise)	3	1	3.5

**FOURTH YEAR**

**Fall Term**

(Co-op students only)

85-498.(Work Term IV)

**Winter Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
92-411.(Machine Design I)	3	3	4.5
99-218.(Environmental Law)	3	0	3
93-224. (Intro to Env. Engrg.)	3	3	4.5
93-322. (Occupational Health and Safety) or	3	2	4
93-328. (Air Pollution Control)	3	2	4
Non-technical Elective			

**Summer Term**

	Lect.	Lab.	Wt.
92-400.(Capstone Design)	2	4	8
85-421.(Engrg. and Society)	3	0	3
92-421.(Machine Design II)	3	3	4.5
92-459.(Computer Aided Engrg.-CAE)	2	3	3.5
93-414. (Solid Waste Management)	3	1	3.5
93-426. (Water and Wastewater Treatment)	2	2	3

**NON-TECHNICAL ELECTIVES**

Non-technical electives must be selected from the approved list in the Undergraduate Calendar.

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**General Modern Languages**

*Total courses:* thirty.

*Major requirements:* fourteen courses, including

- (a) 07-120, 07-220, 07-137, 07-237, 07-337;
- (b) six language courses in one language option area;
- (c) two culture, literature or civilization courses in the language option area;
- (d) one further course from any area of Modern Languages.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Arts or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) two more courses from Arts, Social Sciences, or Sciences, including Modern Languages;
- (b) eight courses from any area of study, excluding Modern Languages.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Combined General Modern Languages

*Total courses:* thirty.

*Major requirements:* twenty-three courses, including

(a) 07-120, 07-220, 07-137, 07-237, 07-337;

(b) six language courses in each of two language option areas;

(c) two literature, culture or civilization courses in each of the two language option areas;

(d) two further courses from any area of Modern Languages

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) one further course from any area of study, excluding Modern Languages.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Combined Honours Modern Languages

*Total courses:* forty.

*Major requirements:* seventeen courses, including:

07-120, 07-220, 07-137, 07-237, 07-337, and 07-202 or 07-203;

six language training courses in one language option area;

three culture or civilization courses in the chosen language option area, including 15-260 and 15-261 or 21-260 and 21-261 or 23-260 and 23-261;

two further courses from any area of Modern Languages, excluding language training courses.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Other requirements:*

(a) additional options from any area of study, if necessary, to a total of forty courses.

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**Combined Honours Modern Languages with Two Language Options**

*Total courses:* forty

*Major requirements:* twenty-four courses, including

a) 07-120, 07-220, 07-137, 07-237, 07-337, and 07-202 or 07-203;

b) six language training courses in each of two language option areas;

c) two of the following culture and civilization courses in each of the two chosen language option areas (15-260 and 15-261; or 21-260 and 21-261; or 23-260 and 23-261)

d) one additional culture and civilization courses in each of the two chosen language option areas.

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:* ten courses, including

a) four courses from any area of study, including Modern Languages;

b) six courses from any area of study, excluding Modern Languages

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

**Honours Modern Languages and Second-Language Education**

*Total courses:* forty

*Major requirements:* twenty-three courses, including

a) 07-120, 07-220, 07-137, 07-237, 07-337, and 07-202 or 07-203;

b) 07-320, 07-321, 07-420, 07-421\* (\* to be introduced in 2008);

c) six language training courses in one language option area;

d) two of the following culture and civilization courses in the chosen language option area – (15-260 and 15-261; or 21-260 and 21-261; or 23-260 and 23-261);

e) one additional culture and civilization course in the language option area;

f) two further courses from any area of Modern Languages;

g) two courses in another language offered by Languages, Literatures and Cultures with which the student is unfamiliar, including Arabic, German, Italian, Japanese, Ojibwe and Spanish

*Option requirements:* six courses including

(a) two courses from Social Sciences;

(b) two courses from Arts or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:* eleven courses, including

a) five more courses from any area of study, including Modern Languages;

b) six courses from any area of study, excluding Modern Languages

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Honours Modern Languages and Second-Language Education with Two Language Options

*Total courses:* forty

*Major requirements:* twenty-eight courses, including 07-120, 07-220, 07-137, 07-237, 07-337 and 07-202 or 07-203; 07-320, 07-321, 07-420, 07-421\* \* to be introduced 2008; six language training courses in each of the two chosen language option areas; two of the following culture and civilization courses in each of the two chosen language option areas (15-260 and 15-261; or 21-260 and 21-261; or 23-260 and 23-261); one additional culture and civilization courses in each of the two chosen language option areas.

*Option requirements:* six courses including  
(a) two courses from Social Sciences;  
(b) two courses from Arts or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements:*  
six further courses from any area of study, excluding Modern Languages.

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## MUSIC

### Honours Bachelor of Arts in Music

#### ADMISSION REQUIREMENTS

No audition is required to enrol in this degree; however it is necessary to pass the entrance examinations for 32-112 and 32-222; and to audition for most ensemble courses for students who elect to enrol in them.

*Total courses:* forty

*Major requirements:* twenty courses, consisting of 32-112, 32-113, 32-212, 32-213, 32-116, 32-126, 32-127, 32-346; the 1.50 courses 32-222, 32-223; two courses in *Performance Studies* or *Ensemble*; nine additional Music courses, including six at the 200-level or above from *History and Literature (Musicology)* and/or *Theory and Composition*.

*Option requirements:*

(a) two courses from Social Sciences;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Arts.

*Other requirements:*

(a) four courses from any area of study, including Music.

(b) ten courses from any area of study, excluding Music (01-110 is strongly recommended).

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## MUSIC

### Combined B.A. Four-Year Honours Degree Programs

*Total courses:* forty

Permission from both Music and the second area of study is required to enroll in this degree program. No audition is required for the degree; however, it is necessary to audition for the required ensemble courses and to pass the examinations for 32-112 and 32-222.

*Major requirements-Music:* seventeen courses consisting of 32-112, 32-113, 32-116, 32-126, 32-127, 32-212, 32-213, 32-346; plus two 1.50 credit hour courses, 32-222 and 32-223; a minimum of four semesters of ensemble courses up to a maximum of eight 1.5 credit courses; plus additional Music courses to a total of seventeen.

Music courses whose middle digit is 0 may not count towards this degree.

*Major requirements-Other Subject:* as prescribed by that area of study.

*Other requirements:* additional options (if required) to a total of forty.

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## MUSIC

### Honours Bachelor of Music

#### ADMISSION REQUIREMENTS

In addition to meeting the regular requirements for admission to the University, admission to Bachelor of Music programs is conditional upon a successful audition evaluated by faculty members in Music. The audition will consist of:

- (a) a theory evaluation test designed to show the nature and extent of the student's aptitude in music theory;
- (b) a performance of at least ten minutes' length on the student's major instrument, showing a grasp of a variety of styles.

Candidates should contact a program advisor in Music for specific requirements in the various performance media. If an accompanist from Music is required, two weeks' prior notice must be given to the Music office, and an accompanist's fee will be charged. Candidates auditioning in Voice or Orchestral Instruments must perform at least one selection with accompaniment.

#### OTHER REGULATIONS

1) Music courses whose middle digit is 0 may not count toward the B.Mus. degree.

2) Ensembles Restriction: Students may take a maximum of one-half of their additional Music courses in Ensembles and, in any case, no more than the equivalent of two, 3.0 credit courses.

#### PROGRAM REQUIREMENTS

*Total courses:* forty.

*Major requirements:* thirty courses, as given below:

*History and Literature (Musicology/Ethnomusicology):* four courses, consisting of 32-116, 32-126, 32-127, and 32-346.

*Theory and Composition:* six courses, consisting of 32-112, 32-113, 32-212, 32-213; and the 1.50 credit hour courses 32-222, 32-223, 32-322, and 32-323.

*Performance Studies:* six courses, consisting of one course from the series 33-347 to 33-369 (taken six times). (Four corresponding 1.50 credit hour courses from the series 33-317 to 33-339 may be substituted for two 3.0 credit hour courses. Up to two courses in 33-371 Applied Jazz/Pop may be substituted for courses in this series. )

*Ensembles:* three courses, consisting of six 1.50 credit hour courses (one in each of six terms) and including at least two of 33-210, 33-220, 33-230, or 33-310. (33-360 may be substituted with permission of the School of Music Director if 33-230 is not offered.)

*Additional Major requirements:* three additional courses in History and Literature (Musicology), Theory and Composition, or Methods and Pedagogy (Music Education); plus 8 additional Music courses.

#### *Other requirements*

- a) Foundations of Academic Writing I (01-150);
- b) 7 courses from any area of study, excluding Music and Music Therapy.
- c) 2 courses from any area of study, including Music.

In addition to a common core of Music courses, B Mus. students may pursue one of a number of different concentrations including Music Education, Performance, Musicology/Ethnomusicology, Theory and Composition (including Technology). Other concentrations may be pursued, within the limit of faculty resources. Recommended Programs of Study with Suggested Course Sequences for these concentrations are available through the School of Music.

#### Graduation Project

In addition to meeting course requirements, all Year 3 and Year 4 students in the Bachelor of Music Program III must perform a recital of approximately one hour's playing time. With permission, Year 4 students in the Bachelor of Music Programs I and II may be allowed to play a recital of approximately forty minutes' playing time, or present a graduation project representing the culmination of studies in an appropriate area of academic emphasis. Application for approval must be made by March 31 of the year preceding graduation. For further details, consult a program advisor in Music.

Courses: 33-393, 33-491, 33-493, 33-495.

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	<b>MUSIC</b>
	<b>Honours Bachelor of Music Therapy</b>
	<i>ADMISSION REQUIREMENTS</i>
	In addition to meeting the regular requirements for admission to the University, admission to the B.Mus.Th. is conditional upon a successful audition evaluated by faculty members in Music. The audition will consist of: (a) a theory evaluation test designed to show the nature and extent of the student's aptitude in music theory; (b) a performance of at least ten minutes' length on the student's major instrument, showing a grasp of a variety of styles; (c) a personal interview to assess the student's background in working with exceptional people and his or her suitability to pursue a career in music therapy.
	Candidates should contact a program advisor in Music for specific requirements in the various performance media. If an accompanist from Music is required, two weeks' prior notice must be given to the Music office, and an accompanist's fee will be charged. Candidates auditioning in Voice or Orchestral Instruments must perform at least one selection with accompaniment.
	<i>OTHER REGULATIONS</i>
	Music courses whose middle digit is 0 may not count toward the B.Mus.Th. degree.
	<i>PROGRAM REQUIREMENTS</i>
	<i>Total courses:</i> forty.
	<i>Major requirements:</i> twenty-seven courses as given below:
	<i>History and Literature (Musicology):</i> two courses, 32-116 and 32-117.
	<i>Theory and Composition:</i> six courses, consisting of 32-112, 32-113, 32-212, and 32-213; plus the 1.50 credit hour courses 32-222, 32-223, 32-322 and 32-323.
	<i>Performance Studies:</i> six courses, including one course from the private instruction series 33-347 to 33-369 taken four times; plus one 1.50 credit hour course from the private instruction series 33-317 to 33-339 taken four times.
	<i>Ensembles:</i> two courses, consisting of four 1.50 credit hour courses in each of four terms from 33-210, 33-220, 33-230, 33-240, 33-250, 33-260, 33-310, and 33-330.
	<i>Music Therapy:</i> seven and one half courses, consisting of 32-120, 32-121, 32-330, 32-331, and 32-420; plus five 1.50 credit hour courses, 32-340, 32-341, 32-440, 32-441, and 32-490.
	<i>Other Music courses:</i> three and one half courses, consisting of 32-248 and 33-111; one additional Music course; and the 1.5 credit hour course 33-213. Students whose major instrument is Voice will substitute the equivalent of 1.5 credit hours in any other Music courses (32- or 33-) for 33-213.
	<i>Other requirements:</i> (a) three courses in Psychology, consisting of 46-115, 46-116, 46-237; (b) seven additional courses from the following areas of study: Drama, Kinesiology, Nursing, Psychology, Sociology, Social Work, or Women's Studies, (c) Foundations of Academic Writing I (01-150) (d) Biology 55-204 or 55-202 or Kinesiology 95-265; (e) one course from any area, excluding Music.
	<i>CERTIFICATION</i>
	Graduates of this program are eligible to apply for certification as a Music Therapist Accredited (MTA) with the Canadian Association of Music Therapy.
	<b>MUSIC: PROGRAM REGULATIONS</b>
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## NURSING

### Collaborative Four-Year B.Sc.N Program

This program is four years in length and is designed for individuals who are seeking to prepare for a career in nursing at the baccalaureate level.

The curriculum is designed on the premise that professional nursing is multidisciplinary in nature, applying nursing, biological and social sciences, as well as the arts, to the care of individuals, families and communities. As inquiring, caring, competent practitioners, nurses serve the needs of society through health promotion, health maintenance, prevention of disease and care of the sick and dying.

The Faculty of Nursing programs are approved and accredited. National Accreditation was granted in 1998 by the Board of Accreditation, Canadian Association of Schools of Nursing (CASN). The collaborative program was granted candidacy status by the Board of Accreditation of CASN in 2004.

Upon successful completion of the program, students are eligible to write nurse registration examinations and pursue graduate studies.

*Total courses:* forty-four.

*Major requirements:* thirty-two courses including 4 double weighted courses\*, one of which are taken in Intersession and one as scheduled by the Faculty of Nursing: 63-170, 63-171, 63-172, 63-173, 63-174, 63-271, 63-272, 63-273, 63-274, 63-275, 63-277, 63-278\*, 63-321, 63-371, 63-372, 63-373, 63-374, 63-375, 63-377, 63-378\*, 63-379, 63-391, 63-471, 63-472\*, 63-473, 63-475, 63-476\*, 63-477.

*Other requirements:* 12 courses including: 02-250 or 65-205, 46-115, 55-202, 55-204, 55-205, 55-237, 55-351, 59-191, 59-291; One Arts Option and Two Open Options.

\* 2 course equivalent

### COURSE SEQUENCE

#### YEAR ONE

##### **Fall**

63-171. Introduction to Nursing I

63-172. Clinical Nursing Experience

46-115. Introduction to Psychology as a Behavioural Science

55-202. Human Anatomy

55-204. Human Physiology I

##### **Winter**

63-173. Introduction to Nursing II

63-174. Clinical Nursing Experience

63-170. Health Assessment

55-205. Human Physiology II

59-191. Organic and Biological Chemistry for Health Sciences

#### YEAR TWO

##### **Fall**

63-271. Family Health

63-272. Clinical Nursing Experience

63-273. Nursing Care of Clients with Episodic and Long-Term Health Needs

55-237. Introductory Microbiology

59-291. Pharmacology for Health Sciences

##### **Winter**

63-274. Clinical Nursing Experience

63-275. Family Health: Child Bearing and Child Rearing Families

63-277. Nursing Care of Children and Youth with Episodic and Long-Term Health Needs

55-351. Medical Microbiology

02-250. Basic Quantitative Methods in Social Science or

65-205. Statistics for the Sciences

Open option

##### **Summer**

63-278. Clinical Nursing Experience (4 weeks) (160 hours)

*Note:* Only sixteen 100-level courses are permitted.

### **YEAR THREE**

#### ***Fall***

63-371. Families Experiencing Crises  
63-372. Clinical Nursing Experience  
63-373. Nursing Care of Clients with Complex Health Problems I  
63-377. Nursing Research  
63-391. Basic Human Nutrition

#### ***Winter***

63-321. Conceptual Models for Practice  
63-374. Clinical Nursing Experience  
63-375. Nursing Care of Clients with Complex Health Problems II  
63-379. Teaching, Learning and Information Technology  
Arts option  
Open option(see Note above)

#### ***Summer***

63-378. Clinical Nursing Experience (4 weeks) (160 hours)

### **YEAR FOUR**

#### ***Fall***

63-471. Community as a Client  
63-472. Clinical Nursing Experience (12 weeks) (192 hours) \* or  
63-476. Clinical Nursing Experience (12 weeks) (192 hours) \*  
63-475. Health Issues and Professional Accountability

#### ***Winter***

63-472. Clinical Nursing Experience (12 weeks) (192 hours) \* or  
63-476. Clinical Nursing Experience (12 weeks) (192 hours) \*  
63-473. Concepts of Leadership in Nursing Practice  
63-477. Directed Study

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## NURSING

### Post-Diploma B.Sc.N. Program

This program involves two years of full-time study and is designed for graduates of diploma nursing programs at colleges of applied arts and technology or of hospital-based or regional schools of nursing. It is offered to registered nurses whose goal is to add to their knowledge and skills in nursing, and to advance to baccalaureate preparation.

The curriculum is designed on the premise that professional nursing is multidisciplinary in nature, applying nursing, biological, and social sciences as well as the arts, to the care of individuals, families and communities. As inquiring, caring, competent practitioners, nurses serve the needs of society through health promotion, health maintenance, prevention of disease, and care of the sick and dying.

Upon successful completion of the program, students are eligible to pursue graduate studies.

Program for Community College Nursing Graduates

### YEAR ONE

#### *Fall*

63-230. Health Assessment  
63-231. Current Professional Nursing Roles  
63-232. Clinical Nursing Experience  
63-233. Conceptual Frameworks for Nursing Practice  
55-237. Introductory Microbiology

#### *Winter*

63-331. Family Nursing  
63-333. Nurse as Counselor and Educator  
63-334. Clinical Nursing Experience  
55-351. Medical Microbiology  
One open option

#### *Fall*

63-431. Community Nursing  
63-432. Clinical Nursing Experience  
63-433. Leadership and Management in Nursing

one of:

02-250. Basic Quantitative Methods in the Social Sciences  
65-205. Statistics for the Sciences

and one of:

63-241. Health Issues and Care of Diverse Populations  
63-243. Issues in Women's Health  
63-245. Health Issues in Gerontology  
63-247. Transcultural Health  
63-249. Clinical Ethics for Health Professionals  
63-351. The Human Meaning of Death

#### *Winter*

63-443. Nursing Research  
63-445. Professional Accountability in Nursing Practice  
63-447. Directed Study  
One Arts option  
One open option

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## MATHEMATICS AND STATISTICS

### Bachelor of Operational Research (Honours Co-operative Education Program)

Co-operative Education offers students the opportunity to combine their classroom experiences with related work experiences. Students who are accepted to the Bachelor of Operational Research (Honours Co-operative Education Program) must successfully complete four paid work experiences interspersed throughout their degree program. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's educational program.

*Total courses:* forty-four.

*Major requirements:* thirty-six courses, consisting of:

- (a) Mathematics: 62-120, 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-314, 62-374, 62-482;
- (b) Statistics: 65-250, 65-251, 65-350, 65-351, 65-376, 65-456;
- (c) Computer Science: 60-140, 60-141;
- (d) Economics: 41-110, 41-111, 41-221, 41-231;
- (e) Industrial and Manufacturing Systems Engineering: 91-327, 91-400, 91-412, 91-413, 91-422, 91-429;
- (f) Business Administration: 70-151, 70-255, 70-256, 73-305, 73-331;
- (g) one of Mathematics 62-380 or Engineering 85-211.

*Other requirements:*

- (a) four electives from any academic area. (Recommended elective: 46-358.)
- (b) four work term placements: 62-188, 62-288, 62-388, 62-488.

## SEQUENCE OF WORK AND STUDY TERMS

### FIRST YEAR

Fall Term: Study term  
Winter Term: Study term  
Summer Term: Work term

### SECOND YEAR

Fall Term: Study term  
Winter Term: Study term  
Summer Term: Work term

### THIRD YEAR

Fall Term: Study Term  
Winter Term: Work Term  
Summer Term: Study Term

### FOURTH YEAR

Fall Term: Work Term  
Winter Term: Study Term  
Summer Term: Study Term

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## PHILOSOPHY

### General Philosophy

*Total courses:* thirty.

*Major requirements:* twelve Philosophy courses, at least 9 of which must be at the 200-level or above, including:

- (a) 34-110 or 34-112;
- (b) 34-221, and one additional Philosophy course with '2' as the middle digit;
- (c) one of 34-270 or 34-271;
- (d) one of 34-274 or 34-275;
- (e) one of 34-470, 34-471, 34-472, 34-473, 34-376, 34-377;
- (f) one Philosophy course with '5' as the middle digit;
- (g) one 200-level or above Philosophy course with '6' as the middle digit;
- (h) four additional Philosophy courses, at least one of which is above the 200-level.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) eight other courses from any area of study, excluding Philosophy;
- (b) four more courses from any area of study, including Philosophy.

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## PHILOSOPHY

### Honours Philosophy

*Total courses:* forty.

*Major requirements:* twenty Philosophy courses, at least 18 of which must be at the 200-level or above, including:

- (a) 34-110 or 34-112;
- (b) 34-221, and one additional Philosophy course with '2' as the middle digit;
- (c) one of 34-250 or 34-254;
- (d) three of 34-270, 34-271, 34-274 or 34-275;
- (e) one of 34-353, 34-472 or 34-473;
- (f) one of 34-355, 34-470, or 34-471;
- (g) one of 34-376 or 34-377;
- (h) one additional Philosophy course with '5' as the middle digit;
- (i) one 200-level or above Philosophy course with '6' as the middle digit;
- (j) 34-491;
- (k) seven additional Philosophy courses, at least three of which are at the 300-level.

*Option requirements:* six courses including

- (a) two courses from Social Sciences;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Arts.

*Other requirements:*

- (a) four other courses from any area of study, including Philosophy;
- (b) ten other courses from any area of study, excluding Philosophy.

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## PHILOSOPHY

### Combined Honours Programs

*A student may combine Philosophy with any other area of study that also permits Combined Honours Programs.*

*Total courses: forty.*

*Major requirements-Philosophy: sixteen Philosophy courses, at least 14 of which must be at the 200-level or above, and including:*

- (a) 34-110 or 34-112;*
- (b) 34-221, and one additional Philosophy course with '2' as the middle digit;*
- (c) one of 34-250 or 34-254;*
- (d) one of 34-270 or 34-271;*
- (e) one of 34-274 or 34-275;*
- (f) one of 34-353, 34-472 or 34-473;*
- (g) one of 34-355, 34-470, 34-471;*
- (h) one additional Philosophy course with '5' as the middle digit;*
- (i) one 200-level or above Philosophy course with '6' as the middle digit;*
- (j) 34-491;*
- (k) any five additional Philosophy courses, at least one of which is above the 200 level.*

*Major requirements-Other subject: as prescribed by that area of study.*

*Option requirements: six courses including*

- (a) two courses from Social Sciences;*
- (b) two courses from Languages or Science;*
- (c) two courses from any area of study, excluding Arts.*

*Other requirements: additional options (if required) to a total of forty courses.*

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## EARTH AND ENVIRONMENTAL SCIENCES

### Honours Physical Geography

*Total courses: forty.*

*Major requirements:* nineteen courses, including 42-231, 61-140, 61-141, 61-326 and 61-499 (a 6 credit course); plus 67-100, 67-102, 67-210, 67-220, 67-221, 67-246, 67-320, and 67-370; and four of 61-224, 61-232, 67-280, 67-310, 67-334, 67-402, 67-410; plus any one 42- course.

*Other requirements:*

(a) two pairs of both 55-140 and 55-141, both 59-140 and 59-141, and both 64-140 and 64-141;

(b) 60-104, 60-106, 62-130 and 65-205;

(c) seven additional courses which could otherwise be credited towards the major requirements for a BSc degree in Biology, Chemistry, Computer Science, Geology, or Physics, or from the Faculty of Engineering, including any not already applied to (a) above;

(d) one course from Arts/Languages;

(e) five courses from any subject area, including Physical Geography (67-).

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## PHYSICS

### Other Combined Honours Programs

*Total courses: forty.*

*Major requirements-Physics: twelve courses, consisting of 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-310, 64-320, 64-311, 64-323, 64-331, and 64-350.*

*Major requirements-Other Subject: as prescribed by that area of study.*

*Other requirements:*

(a) 59-140, 59-141, 62-120, 62-140, 62-141, both 62-215 and 62-216, 62-318, and 85-214;

(b) any additional, non-major requirements as determined by the second area of study;

(c) additional courses, if necessary, from any area of study, to a total of forty.

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## PHYSICS / COMPUTER SCIENCE

### Honours Physics and Computer Science

*Total courses: forty.*

*Major requirements-Physics:* twelve courses, consisting of 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-314, 64-315, 64-320, 64-323, 64-331, and 64-350.

*Major requirements-Computer Science:* twelve courses, consisting of 60-100, 60-140, 60-141, 60-212, 60-214, 60-231, 60-254, 60-256, 60-265, 60-330, and 60-499 (a 6.0 credit hour course).

*Other requirements:*

(a) 62-120, 62-140, 62-141, both 62-215 and 62-216, 62-318, 65-205 (or 65-250), 62-360, 85-214, and 88-226;

(b) six courses from any area of study, including Physics and Computer Science.

### RECOMMENDED COURSE SEQUENCE

*First Year:* 64-140, 64-141, 64-151, 60-100, 60-140, 60-141, 62-120, 62-140, 62-141 and one other course.

*Second Year:* 64-220, 64-222, 60-212, 60-214, 60-231, 60-254, 60-256, 62-215, 62-216, and 85-214.

*Third Year:* 64-250, 64-314, 64-315, 60-265, 60-330, 62-318, 62-360, 88-226, and two other courses.

*Fourth Year:* 64-320, 64-323, 64-331, 64-350, 60-499 (a 6.0 credit course), 65-205, and three other courses.

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Students who apply and are accepted to the Co-operative Education Program must successfully complete three paid work experiences interspersed throughout the four-year Honours program. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's educational program.</p> <p><i>ACADEMIC REQUIREMENTS</i></p> <p>Physics and High Technology Co-op students must maintain full-time academic status and satisfy the following:</p> <p>(a) Must maintain a minimum cumulative average of 6.0, and;</p> <p>(b) Must maintain a minimum major average of 8.0, and;</p> <p>(c) Must not have more than one outstanding F on their transcript.</p> <p><i>WORK-STUDY SEQUENCE</i></p> <table border="0"> <thead> <tr> <th><i>Year of Study</i></th> <th><i>Fall Semester</i></th> <th><i>Winter Semester</i></th> <th><i>Summer Semester</i></th> </tr> </thead> <tbody> <tr> <td>Year 1</td> <td>Study</td> <td>Study</td> <td>Study/Off</td> </tr> <tr> <td>Year 2</td> <td>Study</td> <td>Study</td> <td>Work</td> </tr> <tr> <td>Year 3</td> <td>Study</td> <td>Work</td> <td>Study</td> </tr> <tr> <td>Year 4</td> <td>Work</td> <td>Study</td> <td>Study/Off</td> </tr> </tbody> </table> <p><i>PROGRAM REQUIREMENTS</i></p> <p><i>Total courses:</i> forty-three courses</p> <p><i>Major requirements:</i> sixteen courses, including 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-310, 64-311, 64-320, 64-323, 64-350, 64-431, 64-450, 64-460, 64-484, and 64-496.</p> <p><i>Other requirements:</i></p> <p>(a) 59-140, 59-141, 59-240, 60-140 (or 60-106), 60-141 (or 60-205), 62-120, 62-140, 62-141, 62-215, 62-216, 62-318, 62-360, 70-151, 71-140, 85-130, 85-214, 88-217</p> <p>(b) three co-op terms: 64-298, 64-398, 64-498, (oral and written reports required), plus an optional work term following the second semester of the first year. Students must maintain an honours average (G.P.A. 8.0 or greater) to qualify for co-op placements.</p> <p>(c) five additional B.Sc., B.A.Sc., or B.Comm. credit courses at the 200 level or higher in Science, Engineering, or Business Administration that are approved by the Physics Head or delegate.</p> <p>(d) two of Arts (01-), Social Sciences (02-), and/or Business Administration (04).</p> <p><i>RECOMMENDED COURSE SEQUENCE</i></p> <p><i>First Year:</i> ten courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140, 64-141, 64-151, 85-130, and 71-140, followed by an optional summer work term.</p> <p><i>Second Year:</i> ten courses, including, 62-215, 62-216, 62-318, 64-220, 64-222, 64-250, 64-320, 85-214, 88-217, and one option, followed by a summer Co-op work term.</p> <p><i>Third Year:</i> five fall courses, including 59-240, 62-360, 64-323, 64-350, and one option, Winter co-op work term; five summer courses, including 60-140 or 60-106, 60-141 or 60-205, 64-310, 70-151 and one option.</p> <p><i>Fourth Year:</i> fall co-op work term; five winter courses, including 64-311, 64-431, 64-460, 64-496, and one option; five summer courses, including 60-450, 64-484, and three options.</p> <p><b>PHYSICS: PROGRAM REGULATIONS AND INFORMATION</b></p> <p><b>PHYSICS: COURSES</b></p> <p><b>PHYSICS: PROGRAMS</b></p> <p><b>PHYSICS: INSTRUCTORS</b></p> <p><b>FACULTY OF SCIENCE: GENERAL INFORMATION AND REGULATIONS</b></p>	<i>Year of Study</i>	<i>Fall Semester</i>	<i>Winter Semester</i>	<i>Summer Semester</i>	Year 1	Study	Study	Study/Off	Year 2	Study	Study	Work	Year 3	Study	Work	Study	Year 4	Work	Study	Study/Off
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Students who apply and are accepted to the Co-operative Education Program must successfully complete three paid work experiences interspersed throughout the four-year Honours program. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's educational program.</p> <p><i>ACADEMIC REQUIREMENTS</i></p> <p>Physics and High Technology Co-op students must maintain full-time academic status and satisfy the following:</p> <p>(a) Must maintain a minimum cumulative average of 6.0, and;</p> <p>(b) Must maintain a minimum major average of 8.0, and;</p> <p>(c) Must not have more than one outstanding F on their transcript.</p> <p><i>WORK-STUDY SEQUENCE</i></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Year of Study</i></th> <th style="text-align: left;"><i>Fall Semester</i></th> <th style="text-align: left;"><i>Winter Semester</i></th> <th style="text-align: left;"><i>Summer Semester</i></th> </tr> </thead> <tbody> <tr> <td>Year 1</td> <td>Study</td> <td>Study</td> <td>Study/Off</td> </tr> <tr> <td>Year 2</td> <td>Study</td> <td>Study</td> <td>Work</td> </tr> <tr> <td>Year 3</td> <td>Study</td> <td>Work</td> <td>Study</td> </tr> <tr> <td>Year 4</td> <td>Work</td> <td>Study</td> <td>Study/Off</td> </tr> </tbody> </table> <p><i>PROGRAM REQUIREMENTS</i></p> <p><i>Total courses: 40</i></p> <p><i>Major requirements: 64-140, 64-141, 64-151, 64-220, 64-222, 64-250 64-310, 64-311, 64-320, 64-323, 64-350, 64-370, 64-431, 64-450, 64-460, 64-464, 64-470 or 64-471, 64-484, 64-496</i></p> <p><i>Other requirements:</i></p> <p>(a) Mathematics courses 62-120, 62-140, 62-141, 62-215, 62-216, 62-318, 62-360</p> <p>(b) Engineering courses 88-217 (or equivalent)</p> <p>(c) Chemistry courses 59-140, 59-141, 59-240, plus new 59-230, 59-261</p> <p>(d) Computer science course 60-106 or 60-140</p> <p>(e) Biology courses 55-141</p> <p>(f) Six (6) options with at least two (2) from the Faculties of Arts and Social Sciences and/or Business. For medical school, four (4) courses are recommended that are classified as "writing intensive."</p> <p><i>RECOMMENDED COURSE SEQUENCE</i></p> <p><i>First Year:</i> ten courses, including 64-140, 62-120, 62-140, 59-140, 55-141, 64-151, 62-141, 59-141, one option, followed by an optional summer Co-op work term.</p> <p><i>Second Year:</i> ten courses, including 64-220, 64-250, 60-106 or one option, 62-215, 59-230, 64-222, 64-320, 59-261, 62-216, 62-318, followed by a summer Co-op work term (oral and written reports required)..</p> <p><i>Third Year:</i> five fall courses, including 64-323, 59-240, 64-350, 88-217, 62-360, winter Co-op work term (oral and written reports required); five summer courses including 64-310, 60-106 or one option, 64-484, 64-370, one option.</p> <p><i>Fourth Year:</i> fall co-op work term (oral and written reports required), five winter courses, including 64-311, 64-460, 64-431, 64-464, one option; five summer courses including 64-450, 64-496, 64-470 or 64-471, two options.</p> <p><b>PHYSICS: PROGRAM REGULATIONS AND INFORMATION</b></p> <p><b>PHYSICS: COURSES</b></p> <p><b>PHYSICS: PROGRAMS</b></p> <p><b>PHYSICS: INSTRUCTORS</b></p> <p><b>FACULTY OF SCIENCE: GENERAL INFORMATION AND REGULATIONS</b></p>	<i>Year of Study</i>	<i>Fall Semester</i>	<i>Winter Semester</i>	<i>Summer Semester</i>	Year 1	Study	Study	Study/Off	Year 2	Study	Study	Work	Year 3	Study	Work	Study	Year 4	Work	Study	Study/Off
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## PHYSICS

### Honours Physics and High Technology: Three-Year Fast Track Option

*Total courses:* forty courses, including a research project.

*Major requirements:* fifteen courses, including 64-140, 64-141, 64-151, 64-220, 64-222, 64-250, 64-310, 64-311, 64-320, 64-323, 64-350, 64-431, 64-450, 64-460, and 64-496.

*Other requirements:*

(a) 59-140, 59-141, 59-240, 60-140 (or 60-106), 60-141 (or 60-205), 62-120, 62-140, 62-141, 62-215, 62-216, 62-318, 62-360, 70-151, 71-140, 85-130, 85-214, 88-217;

(b) full-time research project (64-412, 9.0 credit hours);

(c) three additional B.Sc., B.A.Sc., or B.Comm. credit courses at the 200 level or higher in Science, Engineering, or Business Administration that are approved by the Physics Head or delegate;

(d) two of Arts (01-), Social Sciences (02-), and/or Business Administration (04-).

Students may choose to follow this program but with an interruption of one year to add an industrial internship or study abroad, for example. Such changes must be made in consultation with the Department of Physics.

#### RECOMMENDED COURSE SEQUENCE

*First Year:* eleven courses, including 59-140, 59-141, 62-120, 62-140, 62-141, 64-140, 64-141, 64-151, 71-140, 85-130, and one option, followed by an optional summer work term.

*Second Year:* ten courses, including 62-215, 62-216, 62-318, 64-220, 64-222, 64-250, 64-320, 85-214, 88-217 and one option, followed by five summer courses including 60-140 or 60-106, 60-141 or 60-205, 64-310, 70-151, and one option.

*Third Year:* eleven courses, including 59-240, 62-360, 64-311, 64-323, 64-350, 64-431, 64-450, 64-460, 64-496, and two options, followed by a full-time summer research project (64-412, 9.0 credit hours).

Graduates from the PHT fast-track option may be able to apply some results of their research project toward their Master's degree and complete their M.A.Sc. within four years of their university entrance.

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- Physics and High Technology for Electrical and Computer Engineering Graduates**
- Electrical and computer engineering graduates who maintained a G.P.A. of 8.0 or more can add a B.Sc. in Physics and High Technology to their B.A.Sc. degrees by completing the following ten courses: 62-360, 64-222, 64-310, 64-311, 64-320, 64-323, 64-331, 64-350, 64-450, and 64-460.
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## POLITICAL SCIENCE

### General Political Science

*Total courses:* thirty.

*Major requirements:* twelve courses, including 45-100, 45-130, and 45-160; plus one of 45-201, 45-211, 45-212, 45-213, 45-220, 45-313, 45-314, and 45-321. (Students interested in switching to a Political Science four-year Honours degree should take 02-250, 45-275, and two political theory courses: 45-251, 45-252.)

*Option requirements:* six courses including  
(a) two courses from Arts;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*  
(a) four courses from any area of study, including Political Science (Students interested in a Political Science four-year Honours degree should take 41-110 and 41-111.);  
(b) eight courses from any area of study, excluding Political Science.

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## POLITICAL SCIENCE

### Honours Political Science

*Total courses:* forty.

*Major requirements:* nineteen courses, including 45-100, 45-130, 45-160, and 45-275; and two of 45-201, 45-211, 45-212, 45-213, 45-220, 45-309, 45-313, 45-314 and 45-321; plus 45-251 and 45-252; and two of 45-232, 45-237, 45-241, 45-244, 45-346, and 45-365; plus two of 45-264, 45-268, 45-360, 45-361, 45-363, 45-367, and 45-464; seven additional courses, five of which must be at the 300-400 level (and three of those five at the 400 level).

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250, 41-110, and 41-111;

(b) six courses from Sociology, Anthropology, Communication Studies, Geography, History and Psychology;

(c) four courses from any area of study, including Political Science;

(d) two courses from any area of study, excluding Political Science. (At least two of 41-231, 41-232 and 41-283 are strongly recommended.)

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## POLITICAL SCIENCE

### Combined Honours Programs

*Total courses: forty.*

*Major requirements-Political Science: fifteen courses, including:*

(a) 45-100, 45-130, 45-160, and 45-275;

(b) one of 45-201, 45-211, 45-212, 45-213, 45-220, 45-313, 45-314, or 45-321;

(c) 45-251 and 45-252;

(d) eight additional courses of which at least three must be at the 400 level;

*Major requirements-Other Area of Study: as prescribed by that area of study.*

*Option requirements: six courses including*

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250

(b) additional options (if required) to a total of forty.

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## PSYCHOLOGY

### General Psychology

*Total courses:* thirty.

*Major requirements:* ten courses, including 46-115 and 46-116; plus at least one of 46-220, 46-223, or 46-236; and at least two 300-level courses.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250;

(b) five courses from any area of study, including Psychology;

(c) eight courses from any area of study, excluding Psychology.

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## PSYCHOLOGY

### Honours Psychology

This program is intended for students who wish to study the discipline of psychology over a four-year period, including those who might wish to study at the graduate level in professions or disciplines other than psychology.

*Total courses:* forty.

*Major requirements:* eighteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-320, 46-335 or 46-353 or 46-358; plus at least one of 46-220, 46-223, or 46-236. The total number of courses must include at least four 300-level courses and three 400-level courses.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) 02-250;
- (b) five courses from any area of study, including Psychology;
- (c) ten courses from any area of study, excluding Psychology.

### RECOMMENDED COURSE SEQUENCE

*First Year:* 46-115 and 46-116.

*Second Year:* 02-250, 46-229 or 46-230, and one of 46-220, 46-223, or 46-236.

*Third or Fourth Year:* 46-320, 46-335 or 46-353 or 46-358.

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## PSYCHOLOGY

### Honours Psychology with Thesis

This program is oriented primarily toward students with a serious interest in psychological research who intend to study at the graduate level in psychology. Students taking this program should be able to do independent research (thesis) work, and have competence in statistics and research methods. In the fourth year, the program requires completion within a two-term period (Fall and Winter terms only) of a thesis. The thesis is an independent research study, completed in conjunction with a research advisor. Entry to the fourth year thesis course, 46-496, requires psychology and cumulative course averages of at least 9.0. Students must consult with the Psychology Undergraduate Program Chair before undertaking an Honours Psychology with Thesis program.

*Total courses:* forty.

*Major requirements:* eighteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-313, 46-320, 46-331, 46-335 or 46-353 or 46-358, 46-496 and 46-497; and at least one of 46-220, 46-223, or 46-236. The total number of courses must include at least four 300-level courses and three 400-level courses.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) 02-250;
- (b) five courses from any area of study, including Psychology;
- (c) ten courses from any area of study, excluding Psychology.

### RECOMMENDED COURSE SEQUENCE

*First Year:* 46-115 and 46-116.

*Second Year:* 02-250, 46-229 or 46-230, and one of 46-220, 46-223, or 46-236.

*Third Year:* 46-313, 46-320, 46-331, 46-335 or 46-353 or 46-358.

*Fourth Year:* 46-496 and 46-497.

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## PSYCHOLOGY

### Combined Honours Programs in Psychology

*Total courses: forty.*

*Major requirements - Psychology:* fourteen courses, including 46-115, 46-116, 46-229 or 46-230, and 46-320; plus one of 46-220, 46-223, or 46-236; and one of 46-335, 46-353 or 46-358. The total number of Psychology courses must include at least four 300-level courses and two 400-level courses.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) 02-250;
- (b) additional options (if required) to a total of forty.

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## PSYCHOLOGY

### Combined Honours Programs in Psychology with Thesis

*Total courses: forty.*

*Major requirements - Psychology:* fourteen courses, including 46-115, 46-116, 46-229 or 46-230, 46-320, 46-331; plus 46-313 or an equivalent statistics course from another area of study; plus one of 46-220, 46-223, or 46-236; plus one of 46-335, 46-353 or 46-358; and 46-496 and 46-497. The total number of Psychology courses must include at least four 300-level courses. Entry to the fourth year thesis course, 46-496, requires psychology and cumulative course averages of at least 9.0. Students must consult with the Psychology Undergraduate Program Chair before undertaking a combined Honours in Psychology with Thesis program.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Option requirements:* six courses including

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) 02-250;

(b) additional options (if required) to a total of forty.

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## SOCIAL WORK

### Honours Bachelor of Social Work

*Total courses:* forty-four.

*Major requirements:* 47-117, 47-118, 47-204, 47-210, 47-303, 47-304, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, 47-364, 47-436, 47-437, 47-447, 47-461, 47-462, 47-463, and 47-464; plus eight Social Work elective courses at the 300 or 400 level (including two electives in areas relevant to Social Work. These two electives must be approved by the Undergraduate Chair.)

*Other requirements:*

(a) 02-250;

(b) two courses from Science;

(c) ten courses from Arts, Languages, or Social Sciences, excluding Social Work;

(d) three courses from any area of study, excluding Social Work.

### RECOMMENDED COURSE SEQUENCE

Year 1: 47-117, 47-118, and eight course options (Recommended: 46-115, 46-116, 48-101, 48-102).

Year 2: (Ten courses) 47-210, 47-304, 02-250, and seven course options (Recommended: 46-223, 46-224, 46-225, 48-204).

Year 3: (Twelve courses) 47-204, 47-303, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, 47-364 plus additional Social Work electives at the 300 or 400 level and electives in areas relevant to Social Work and approved by the Undergraduate Chair.

Year 4: (Twelve courses) 47-436, 47-437, 47-447, 47-461, 47-462, 47-463, 47-464 plus additional Social Work electives at the 300 or 400 level and electives in areas relevant to Social Work approved by the Undergraduate Chair.

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## SOCIAL WORK

### Honours Bachelor of Social Work (for University Graduates)

*Two-Year Program [Program II]:*

University graduates with a three-year degree in Arts or Social Sciences or 30 courses in Arts or Social Sciences, with a minimum cumulative G.P.A. of 8.0, or an average of at least 8.0 in their last twenty courses taken, including at least one course in statistics or research methods, may be considered for admission to a two-year, four-semester program leading to a Bachelor of Social Work (B.S.W.) degree. Applicants should have volunteer or work experience in human service agencies or community organizations. Applicants must apply to the Office of the Registrar prior to February 1 for September admission.

### TWO-YEAR PROGRAM (Program II)

*Total courses:* twenty-four.

*Required:*

*Year 1:* 47-303, 47-304, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, and 47-364; plus additional Social Work and outside electives at the 300 or 400 level and electives in areas relevant to Social Work approved by the Undergraduate Chair.

*Year 2:* 47-436, 47-437, 47-447, 47-461, 47-462, 47-463, and 47-464; plus additional Social Work and outside electives at the 300 or 400 level and electives in areas relevant to Social Work approved by the Undergraduate Chair.

*Social Work Electives for B.S.W. for University Graduates Programs:* 47-204, 47-210, 47-305, 47-346, 47-347, 47-356, 47-357, 47-370, 47-410, 47-412, 47-434, 47-448, 47-455, 47-456, 47-457, 47-458, 47-459, 47-470.

Social Work courses taken as part of a previous undergraduate degree may not be counted for credit for Programs II and III. If a course or courses required for Program II or Program III were taken as part of a previous undergraduate degree, another Social Work course or courses (or a course or courses in cognate disciplines) must be selected and substituted with the approval of the Director of the School (or designate) or the undergraduate studies committee.

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## SOCIAL WORK

### Honours Bachelor of Social Work in Social Work and Diaspora Studies (Combined Honours)

*Total courses: 44*

*Social Work - Major requirements: 47-117, 47-118, 47-204, 47-303, 47-304, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, 47-364, 47-436, 47-437, 47-447, 47-461, 47-462, 47-463, 47-464 plus 3 additional Social Work electives.*

*Diaspora Studies- Major requirements:*

a) All of the following core courses (6 courses): 07-235, 07-236, 40-262, 45-170, 47-210, 49-112.

b) Four of the following courses on diaspora identity formation: 26-354, 34-255, 46-235, 46-236, 46-342, 46-445, 48/49-333.

c) Four courses on diasporas in the Canadian context, from the following: 26-361, 26-371, 40-245, 40-462, 43-345, 43-361, 43-369, 45-399, 45-370, 48-232, 48/49-240, 48/49-241

*Other requirements: Eight courses:*

a) Two science electives;

b) 02-250;

c) Five courses from any area of study, excluding Social Work and Diaspora Studies

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## SOCIAL WORK

### Honours Bachelor of Social Work in Social Work and Women's Studies (Combined Honours)

*Total courses: 44*

*Social Work - Major requirements: 47-117, 47-118, 47-204, 47-210, 47-303, 47-304, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, 47-364, 47-436, 47-437, 47-447, 47-462, 47-463, 47-464 plus 3 additional Social Work electives.*

*Women's Studies - Major requirements: 53-100, 53-200, 53-201, 53-202, 53-220, 53-300, 53-301, 53-310; at least one of 53-320, 53-360, or 53-390; 47-461, 53-347, 53-370, 53-470, plus 2 Women's Studies (53-) electives, plus 1 Women's Studies/Women-Emphasis electives.*

*Other Requirements:*

(a) one Science elective;

(b) 02-250;

(c) four courses from any area of study, excluding Social Work and Women's Studies. (It is recommended that at least two of the electives be from related disciplines.)

### RECOMMENDED COURSE SEQUENCE

*Year 1:* (Ten courses) 47-117, 47-118, 53-100, 53-201, 1 Women's Studies elective, 2 Women's Studies/Women's Emphasis electives and 3 courses from any area of study, excluding Social Work and Women's Studies.

*Year 2:* (Ten courses) 47-210, 47-304, 53-220, 53-310, and another science credit, 3 Women's Studies electives, 02-250 and 1 elective from any area of study excluding Social Work and Women's Studies.

*Year 3:* (Twelve courses) 47-204, 47-303, 47-336, 47-337, 47-344, 47-361, 47-362, 47-363, 47-364, 53-300 or 53-301, 53-347, 53-370.

*Year 4:* (Twelve courses) 47-436, 47-437, 47-447, 47-462, 47-463, 47-464, 53-300 or 53-301, 53-400\*, 53-470 plus 3 Social Work electives.

\* Students earn credit for 53-400 through their Social Work placements.

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## SOCIOLOGY AND ANTHROPOLOGY

### General Sociology

*Total courses:* thirty.

*Major requirements:* ten courses, including 48-101, 48-102, 48-202, 48-210, 48-302, and 48-310 (or 49-355); plus three additional Sociology (48-) courses at the 300 or 400 level; and 49-112.

Option requirements:

(a) two courses from Arts or Languages;

(b) two courses from Science;

(c) four courses from any area of study, excluding Social Sciences;

(d) six courses from any area of study, including Sociology (48-);

(e) six courses from any area of study, excluding Sociology (48-) and any Anthropology (49-) courses cross-listed with Sociology.

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## SOCIOLOGY AND ANTHROPOLOGY

### Honours Sociology

*Total courses: forty.*

*Major requirements:* nineteen courses, including 48-101, 48-102, 48-202, 48-210, 48-302, 48-308, and 48-310 (or 49-355); two 400-level courses, including one of 48-403, 48-404, 48-405, 48-408, 48-415 (or 49-415); two additional Sociology (48-) courses at the 300 or 400 level; plus 49-112 and one additional Anthropology (49-) course which is not cross-listed with Sociology.

*Other requirements:*

(a) 02-250;

(b) two courses from Arts or Languages;

(c) two courses from Science;

(d) four courses from Arts, Languages, or Social Sciences, including Sociology (48-);

(e) twelve courses from any area of study, excluding Sociology (48-) and any Anthropology (49-) courses cross-listed with Sociology.

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## SOCIOLOGY AND ANTHROPOLOGY

### Combined Honours Sociology Programs

*Total courses: forty.*

*Major requirements - Sociology:* fifteen courses including 48-101, 48-102, 48-202, 48-210, 48-302, 48-308, 48-310 (or 49-355); and two 400-level courses, including one of 48-403, 48-404, 48-405, 48-408, 48-415 (or 49-415); plus 49-112. Two additional Sociology (48-) courses must be taken at the 300 or 400 level. An introductory statistics course (02-250 or the equivalent) is required. An equivalent statistics course may be substituted for 48-308, in which case one additional Sociology (48-) or Anthropology (49-) course is required.

*Major requirements - Other Subject:* as prescribed by that area of study.

*Other requirements:*

(a) two courses from Arts or Languages;

(b) two courses from Science;

(c) additional options (if required) to a total of forty.

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## SOCIOLOGY AND ANTHROPOLOGY

### Combined Honours Sociology and Criminology

Admission requirements and application procedures for entry to the third year of the combined Sociology and Criminology Honours program are as described for the Criminology Honours degree.

*Total courses:* forty

*Major requirements:* eighteen courses

- (a) 48-101, 48-102, 48-202, 48-210, 48-260, 48-262, 48-302, 48-308, 48-310 (or 49-355) and 48-363; plus two 400-level courses, including one of 48-403, 48-404, 48-405, 48-408, 48-415 (49-415); plus 49-112
- (b) 48-207 or 48-261;
- (c) 34-129 or 34-226;
- (d) two of 48-361, 48-362, 48-367, 48-368, 48-370, 48-371, and 49-323;
- (d) 48-466.

*Other requirements:*

- (a) 02-250;
- (b) nine courses from any area of study, including Sociology
- (c) six courses from any area of study, excluding Sociology (48-) and any Anthropology (49-) courses which are cross-listed with Sociology.

*Option requirements:*

- (a) two courses from Arts or Languages;
- (b) two courses from Science;
- (c) two courses from Arts, Languages, or Science.

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## FACULTY OF ARTS AND SOCIAL SCIENCES

### Combined Honours in Social Justice

*Total courses:* forty

*Major requirements:* 16 courses in Social Justice, including:

(a) 38-101; 38-321; 38-447; 34-323, 48/49-375; and 54-100;

(b) a minimum of one in at least three of the following categories:

(i) 07/15-235, 24-378, 26-354, 26-358, 26-128, 40-262, 40-225, 40-362, 40-370

(ii) 27-390, 34-227, 53-320, 99-218

(iii) 40-257, 54-200, 43-349, 48/49-226, 53-260

(iv) 34-236, 43-251/53-200, 43-369, 45-211, 45-241, 46-240, 48/49-232, 48/49-241, 53-410, 46-445, 95-405

(v) 24-471, 46-334, 47-210, 47-204, 99-200

*Major requirements-Other Subject:* as prescribed by that area of study.

*Other requirements:*

(a) two courses from Arts or Languages;

(b) two courses from Science;

(c) additional courses from any area of study excluding Social Sciences, as required.

### RECOMMENDED COURSE SEQUENCE

*Year 1:* five courses, including: 38-101, 54-100, and three of 07/15-235, 26-128, 40-225, 40-257, 40-262, 34-227, 34-236, 54-200, 48/49-226, 53-260, 43-251/53-200, 45-211, 45-241, 46-240, 48/49-232, 48/49-241.

*Year 2:* Five courses from the following list: 95-405, 24-471, 46-334, 47-210, 47-204, 99-200, 99-218.

*Year 3:* Four or Five courses, including: 38-321; and three or four of 34-323, 48/49-375, 24-378, 26-354, 26-358, 40-362, 40-370, 27-390, 53-320, 43-349, or 43-369.

*Year 4:* 38-447; 46-445 (optional) and 53-410 (optional).

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## VISUAL ARTS

### General B.A. in Visual Arts

*Total courses:* thirty.

*Major requirements:* sixteen courses, including 27-105, 27-106, 27-107 and 27-108, and eight other studio courses numbered 27-203 through 27-390 plus 28-150, 28-214 and 28-215 and one other Art History course.

*Option requirements:* six courses including  
(a) two courses from Social Sciences;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements:*  
(a) 07-202, 07-203;  
(c) six more courses from any area of study, excluding Visual Arts.

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## VISUAL ARTS

### Combined B.A. Honours Degree Programs

*Total courses: forty.*

*Major requirements-Visual Arts: seventeen courses consisting of Studio Fundamentals 27-105, 27-106, 27-107 and 27-108, 28-150, 28-214, 28-215, plus ten other studio courses numbered 27-203 through 27-390 with at least four courses at the 300-level.*

*Major requirements-Other Subject: as prescribed by that area of study.*

*Option requirements: six courses including*  
(a) two courses from Social Sciences;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements: additional options (if required) to a total of forty courses, excluding Visual Arts.*

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## VISUAL ARTS

### Bachelor of Fine Arts in Visual Arts

*Total courses: forty.*

*Major requirements:* Studio: twenty-two courses as follows: 27-105, 27-106, 27-107, 27-108, 27-203; one of 27-383 or 27-384; 27-480 (2 credits), 27-481 (2 credits), 27-490 and 27-491; plus at least two 200-level courses in two other separate areas; five additional 300-level courses with at least three 300-level courses in the same subject area; and one additional studio course. Art History: eight courses as follows: 28-150, 28-214, 28-215, plus five more art history courses, one of which has to be at the 400-level. Students must have a positive Portfolio Evaluation to proceed to their second year of study.

*Option requirements:* six courses including  
(a) two courses from Social Sciences;  
(b) two courses from Languages or Science;  
(c) two courses from any area of study, excluding Arts.

*Other requirements:* four additional options, excluding Visual Arts

*Portfolio Evaluation:* A successful portfolio evaluation is required. The portfolio evaluation takes place at the end of semester 2, after the student has gained credit in 27-105, 27-106, 27-107, 27-108, 28-150.

Students who are otherwise in good standing, but whose portfolio evaluation is not successful may:

- (a) be allowed to continue in the B.F.A. program on a conditional basis, subject to re-evaluation;
- (b) be allowed to transfer to the general Bachelor of Arts-Visual Arts program.

Consult a program advisor in Visual Arts for details regarding portfolio requirements and procedures.

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## VISUAL ARTS

### B.A. in Honours Visual Arts and Art History

*Total courses: forty.*

*Major requirements-Visual Arts:* fourteen courses, consisting of 27-105, 27-106, 27-107 and 27-108, plus ten other studio courses numbered 27-203 through 27-390 (at least four courses must be at the 300 level).

*Major requirements-Art History:* fourteen courses, including 28-150, 28-214 and 28-215, plus eleven other Art History courses numbered 28-300 through 28-456.

*Other requirements:*

(a) two courses in the same foreign language plus two courses in one of the following areas: Philosophy, English, Intercultural Studies, or Classical Studies.

(b) 07-202, 07-203 plus two courses in History chosen in consultation with an Art History advisor;

(c) four options from any area of study, excluding Visual Arts.

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## VISUAL ARTS / COMMUNICATION STUDIES

### B.A. Honours in Visual Arts and Communication Studies

*Total courses: forty.*

*Major requirements-Visual Arts: seventeen courses, consisting of 27-105, 27-106, and 27-107, plus eleven other studio courses numbered 27-203 through 27-390 (at least four courses must be at the 300 level), plus 28-150, 28-214, and 28-215.*

*Major requirements-Communication Studies: sixteen courses including 40-101, 40-200, 40-202, 40-225, 40-234, 40-257, 40-275 plus nine additional courses, at least three of which must be at the 300 or 400 level, and at least two of those must be at the 400 level.*

*Other requirements:*

(a) two courses from Languages or Science;

(b) five courses from any area of study, excluding Visual Arts and Communication Studies.

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## WOMEN'S STUDIES

### General B.A. in Women's Studies

*Total courses:* thirty.

*Major requirements:* ten courses, including

- (a) 53-100 and 53-200;
- (b) at least one of 53-201 or 53-202;
- (c) at least one of 53-300 or 53-301;
- (d) at least one of 53-310, 53-320, or 53-360;
- (e) five Women's Studies or Women-Emphasis courses

*Option requirements:* six courses including

- (a) two courses from Arts;
- (b) two courses from Languages or Science;
- (c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

- (a) six courses from any area of study, including Women's Studies (53-);
- (b) eight courses from any area of study, excluding Women's Studies (53-).

\*53-220, 63-241, and 63-243 will satisfy a Science requirement for non-Science majors for students in the Faculty of Arts and Social Sciences.

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## WOMEN'S STUDIES

### B.A. Honours in Women's Studies

*Total courses: forty.*

*Major requirements: twenty courses, including*

(a) 53-100, 53-200, 53-201, 53-202, 53-300, 53-301, 53-400, 53-410;

(b) at least one of 53-310, 53-320, or 53-360;

(c) eleven Women's Studies or Women-Emphasis courses, with at least one at the 100-level.

*Option requirements: six courses including*

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements:*

(a) six courses from any area of study, including Women's Studies (53-);

(b) eight courses from any area of study, excluding Women's Studies (53-).

\*53-220, 63-241, and 63-243 will satisfy a Science requirement for non-Science majors for students in the Faculty of Arts and Social Sciences.

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## WOMEN'S STUDIES

### Combined Honours Women's Studies

*Total courses: forty.*

*Major requirements-Women's Studies: sixteen courses*

(a) 53-100, 53-200, 53-201, 53-202, 53-300, 53-301, 53-400, 53-410;

(b) at least one of 53-310, 53-320, or 53-360;

(c) seven Women's Studies or Women-Emphasis courses, with at least one at the 100-level.

*Major requirements-Other Subject: as prescribed by that area of study.*

*Option requirements: six courses including*

(a) two courses from Arts;

(b) two courses from Languages or Science;

(c) two courses from any area of study, excluding Social Sciences.

*Other requirements: as prescribed by the other area of study; plus additional courses to a total of forty.*

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## FACULTY OF ARTS AND SOCIAL SCIENCES (FASS)

### Dean

Cecil J. Houston; B.A., M.A., Ph.D. (Toronto).

### Associate Dean, Academic and Student Affairs

Kai Hildebrandt; M.A. (Hamburg), M.A., Ph.D. (Michigan).

### Associate Dean, Administrative Affairs

Amore, Roy C.; B.A. (Ohio), B.D. (Drew), Ph.D. (Columbia)-1970. (Acting)

### Associate Dean, Research and Graduate Studies

Lori Buchanan; B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo).

Students are directed to become familiar and to comply with the general regulations of the University which apply to all students. Additionally, programs within the Faculty of Arts and Social Sciences may have particular regulations. Students enrolled in programs in the Faculty of Arts and Social Sciences also must comply with these particular requirements as found in this Calendar.

Students are also directed to read the "**Statement of Responsibility**".

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### Bachelor of Arts in Liberal and Professional Studies

### Combined Honours Bachelor of Arts in Social Justice

### Concurrent Bachelor of Arts (or Bachelor of Mathematics or Science)/ Bachelor of Education/Diploma in Early Childhood Education

### Minor in Geography

### Minor in Latin American Studies

### Certificate in Arts Management

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### English, Language, Literature and Creative Writing

### History

### Labour Studies

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### Music

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Requirements for degree programs in Dramatic Art make reference to the following groups of courses:

*Group A-Performance Related Courses:* 24-225, 24-235, 24-244, 24-277, 24-278, 24-284, 24-310, 24-325, 24-344, 24-351, 24-352, 24-384, 24-421, and 24-449.

*Group B-Theatre History Courses:* 24-130, 24-230, 24-330, 24-333, 24-439, and 24-469.

*Group C-Technical/Design Courses:* 24-115, 24-211, 24-212, 24-213, 24-215, 24-216, 24-217, 24-219, 24-319, and 24-452.

### OTHER REGULATIONS

1) Dramatic Art 24-100 (The Nature of Theatre I) and 24-200 (The Nature of Theatre II) are requirements for all first-year Dramatic Art majors.

2) Non-majors wishing to take a Dramatic Art course as an option may enter Dramatic Art courses (with the exception of those which are further restricted only to B.F.A. Acting or Drama in Education and Community students) only with the consent of the instructor.

3) Only 3rd and 4th year students may enrol in Production Problems with the consent of the Director of the School. Dramatic Art students may enrol in Directed Studies courses only with the consent of the instructor.

4) B.F.A. students may not proceed to the next level without completing all core Dramatic Art course requirements of the previous level. Performance courses must be taken in sequence.

All students majoring in Dramatic Art programs are strongly advised to seek academic advising prior to registration each term.

### UNIVERSITY PLAYERS

University Players is a serious and dedicated training ground for young theatre artists. It is a venue where faculty, staff, and guest artists find an opportunity for creative expression and showcase professional-calibre content and conduct. All Dramatic Art programs come together at University Players. First-year students learn the backstage and front-of-house operation of the theatre as members of running crews for productions. In later years, students work in the areas that correspond to their chosen B.A. or B.F.A. degree programs. University Players produces fifty-five performances of six plays annually, to a total of 15,000 audience members.

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## FACULTY OF ENGINEERING

### Dean

Graham T. Reader; B.Tech. (Hons) (Bradford), B.A. (O.U.), P.S.C. (J.S.D.C.), Ph.D. (Bradford), P.Eng., C.M.E., C.Eng., Eur.Eng., F.I.MarEST.

### Acting Associate Dean (Research and Graduate Studies)

Ram Balachandar; B.E. (Madras), Ph.D. (Concordia), P.Eng.-2003.

### Acting Associate Dean (Academic)

Robert George Stephen Gaspar; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-1983.

### Program Leader - Auto 21

Peter R. Frise; B.Sc. (Eng) (Queen's), Ph.D. (Carleton), F.C.A.E., P.Eng.

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## KINESIOLOGY

**NEW CURRICULUM BEGINNING FALL 2008 (including Movement Science Major, Sport Management Major, and Sport Studies Major)**

## PROGRAMS

**Bachelor of Human Kinetics (Honours Kinesiology) Movement Science Major**

**Bachelor of Human Kinetics (Honours Kinesiology) Leisure and Sport Management Major**

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Human Kinetics (Kinesiology) "Core" Courses, Areas of Study, and First and Second Year Course Sequence  
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## FACULTY OF SCIENCE

### Dean

Richard J. Caron; B.M., M.M., Ph.D. (Waterloo).

### Associate Dean

Rodrigues, Cyril G. I.; B.Sc. (British Columbia), M.Sc., Ph.D. (Carleton)-1979.

### Associate Dean, Research and Graduate Studies

Corkum, Lynda D.; B.A., M.A. (Drake), Ph.D. (Toronto)-1987.

Students are directed to become familiar and to comply with the general regulations of the University which apply to all students. Additionally, the Faculty, and individual programs within the Faculty of Science may have particular regulations. Students enrolled in programs in the Faculty of Science also must comply with these particular requirements which may be found in the program sections of the Faculty.

We strongly encourage students to seek counselling in the Departments or in the Faculty of Science Office to clarify the requirements of their particular degree programs.

Students also are directed to read the "Statement of Responsibility", the "Important Dates", the Policy on Plagiarism, and the Policy on Unacceptable Use of Computer Resources (See "Undergraduate Regulations").

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### Minor in General Science

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*Applied Mathematics:* 60-231, 62-360, 62-374, 62-460, 64-140, 64-141, 64-151, 64-220, 64-250, 64-321, 64-322, 64-350, 64-420, 64-421, 64-450, 64-451, and 65-376.

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## FACULTY OF ARTS AND SOCIAL SCIENCES

### Certificate in Arts Management

*Total courses:* ten.

#### *Requirements:*

(a) 70-151, 71-140, 74-231;

(b) 01-360, 40-398, 40-399;

(c) one of 24-210, 26-100, 26-302, 40-225, 40-250, 40-381;

(d) three of 24-100, 24-111, 24-200, 24-225, 24-235, 24-325, 24-330, 24-333, 24-351, 24-352,

24-439, 32-106, 32-107, 32-126, 32-127, 32-346, 32-420, 27-491, 28-345, 28-400, including two or four of the 1.50 credit hour courses 33-210, 33-220, 33-260, 33-310.

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## ODETTE SCHOOL OF BUSINESS

### Certificate in Business Administration

This program is intended for part-time students. Courses are regular University credit courses and may be applied toward the Bachelor of Commerce degree.

*Required courses:*70-151, 70-255, 71-240, 72-270, 74-231, 75-100, plus 4 additional business courses.\*

To be eligible to receive the Certificate in Business, a student must obtain a cumulative average of 5.0 or better.

In the event that an applicant has completed equivalent courses elsewhere, other courses may be substituted by the applicant with the consent of the Dean of the Odette School of Business Administration.

\* **NB:** The Certificate in Business Administration is open to any student. Please note however that students must obtain the required prerequisite courses such as math and economics for some of the courses within the Certificate.



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## LABOUR STUDIES

### Certificate in Labour Studies

*Total courses: ten.*

Requirements:

(a) 54-100 and 54-105; 54-200 or 54-204; 54-301; 43-349; 54-225, (or 48-225); or 54-326 (or 48-326);

(b) four of 46-370, 46-371, 54-327 (or 48-327), 48-228, 54-318, 48-321, 48-332, 71-344, 40-225 (or 40-325 or 40-425), 71-446 (or 71-448 or 71-449 or 71-481).

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	<b>Certificate in North American Studies</b>
	<i>Total courses:</i> eight.
	<i>Requirements:</i>
	(a) 02-103;
	(b) 3 courses from Category 1;
	(c) 3 courses from Category 2;
	d) one other course chosen from either Category 1 or Category 2.
	<b>**No more than three of the eight courses may be at the 100-level. (In cases where courses require prerequisites, students should consult with the relevant department.)</b>
	<b>Category 1:</b>
	Communication Studies
	40-245, Communication and Cultural Policy in Canada
	<u>Dramatic Art</u>
	24-333, Canadian Theatre History
	<u>English Language, Literature, and Creative Writing</u>
	26-140, Topics in Literature (May be used towards the North American Certificate only if the topic is North American in its focus)
	26-260, Canadian Literature
	26-270, American Literature
	26-358, Native Literatures and Cultures
	26-361, Topics in Canadian Literature
	26-366, Canadian Poetry
	26-367, Canadian Fiction
	26-371, Topics in American Literature
	26-372, American Literature: Colonial to Civil War
	26-373, American Literature: Civil War to Realists
	26-374, The American Moderns
	26-375, The Literature of Contemporary America
	<u>French (all courses are taught in French and require U12 or equivalent knowledge of French)</u>
	29-270, Introduction to the Cultural Heritage of French Canada
	29-383, Drama in Quebec and in Other Francophone Regions of Canada
	29-385, Poetry in Quebec and in Other Francophone Regions of Canada
	<u>History</u>
	43-243, Canada from Early European Contacts to the Origins of Confederation, 1600-1867
	43-244, Canada Since Confederation, 1867-1968
	43-261, History of the United States I
	43-262, History of the United States II
	<u>Music</u>
	32-106, The Musical Experience
	32-107, Explorations in Music
	<u>Philosophy</u>
	34-473, Recent American Philosophy
	<u>Visual Arts</u>
	28-343, Canadian Art
	<b>Category 2:</b>
	<u>Political Science</u>
	45-100, Introduction to Canadian Government and Politics
	45-201, Current Issues in Canadian Politics
	45-214, Legal Process in Canada
	45-232, Government and Politics of the United States
	45-255, Music, Policy, and the State
	45-264, Introduction to Canadian Foreign Policy
	45-361, U.S. Foreign Policy
	<u>Labour Studies</u>
	54-100, Labour and Social Movements in Canadian Society

Sociology and Anthropology

48-228, Class, Wealth, and Power in Canada

48-240, Ethnic Relations in Canada

48-241, Race and Racism in Canada

Women's Studies

53-100, Women in Canadian Society

53-200, History of Women's Movements in North America

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## POLITICAL SCIENCE

### Certificate in Public Administration

*Total courses:* ten.

#### *Requirements:*

(a) 45-100, 45-220, 45-221, 45-328, and 45-329;

(b) 41-110 and 41-111;

(c) three of 45-214, 45-313, 70-151, 71-140, 71-243.

Inquiries about the program should be directed to a program advisor in Political Science.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Certificate in Second Language Education

*Total courses:* eight.

#### *Requirements:*

(a) 08-160, 07-120, 07-220, 07-320, 07-321, 07-420;

(b) plus any two 100-level introductory language courses offered by Languages, Literatures and Cultures other than Ancient Greek, Latin or languages with which the student has prior native or educational experience. (Possible language courses include: Arabic, French, German, Italian, Spanish, Japanese or Ojibwe).

\*\*\*The Certificate in Second Language Education is not equivalent to or provide the necessary qualification for, professional certification by the Ontario College of Teachers.

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## WOMEN'S STUDIES

### Certificate in Women's Studies

*Total courses:* ten.

#### *Requirements:*

(a) 53-100 and 53-200;

(b) at least one of 53-201 or 53-202;

(c) at least one of 53-300 or 53-301;

(d) at least one of 53-310, 53-320, or 53-360;

(e) five Women's Studies or Women-Emphasis courses, with at least one at the 100-level.

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## NURSING

### Ontario Primary Health Care Nurse Practitioner Certificate Program for Degree-Prepared Nurses

1) The applicant must have a Bachelor of Science in Nursing which includes physical assessment, statistics, and a research methods course. An interview with the Faculty of Nursing Admissions Committee may be required. A letter of reference from current or most recent employer is required and a minimum overall nursing average of 70%.

2) Applicants must hold or be eligible for a current certificate of registration as a registered nurse with the College of Nurses of Ontario.

3) Preference will be given to Ontario residents whose work experience in nursing has been continuous and who have clinical experience in one or more of the following areas: primary health care, ambulatory care, public health, community health, long-term care, emergency care, or outpost nursing.

4) Applicants must have the equivalent of two years full-time relevant nursing practice within the past five years.

Note: This is a limited enrollment program. Therefore, possession of minimum published requirements does not guarantee admission.

Information must also be obtained on the internet at <http://np-education.ca>.

### Program Information

This program prepares an advance practice nurse to diagnose and manage common health problems that occur throughout life. The nurse practitioner emphasizes holistic care, health promotion, and disease prevention through the application of advanced knowledge and skills. Graduates will be critical thinkers, self-directed learners, and reflective, collaborative practitioners who function independently and interdependently within an interdisciplinary team. They are responsible and accountable for their own practice.

### Regulations

A minimum grade of B- is required in each Primary Health Care Nurse Practitioner course. A candidate for either Primary Health Care Nurse Practitioner program who does not obtain credit in any course may repeat the course once only. There may be no more than a 3-year lapse between Nurse Practitioner courses. Application review will begin March 1st; applications should be made through the Ontario Universities' Application Centre (OUAC).

### Course Sequencing

This is a twelve-month program designed for nurses who already have a baccalaureate degree in nursing.

#### Fall

63-450. Pathophysiology for the Nurse Practitioner (3 credit hours, 2 terms)

63-452. Roles and Responsibilities of the Nurse Practitioner in Primary Health Care. (3 credit hours, 2 terms)

63-455. Advanced Health Assessment and Diagnosis I (4.5 credit hours)

63-461. Therapeutics in Primary Health Care I (4.5 credit hours)

#### Winter

63-450. Pathophysiology for the Nurse Practitioner (3 credit hours, 2 terms)

63-452. Roles of the Nurse Practitioner in Primary Health Care

63-456. Advanced Health Assessment and Diagnosis II (4.5 credit hours)

63-462. Therapeutics in Primary Health Care II (4.5 credit hours)

#### Summer

63-495. Integrative Practicum (12 credit hours)

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## SOCIOLOGY AND ANTHROPOLOGY

### Minor in Anthropology

*Required:* six Anthropology (49-) courses, including 49-111, 49-112; and at least one of 49-213, 49-215, or 49-217.

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## COMPUTER SCIENCE

### Minor in Applied Information Technology

The minor in Applied Information Technology consists of 6 courses in which the student must maintain a grade average of C- or better: 60-104, 60-106, 60-205, 60-207, 60-270, and 60-305.

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## VISUAL ARTS

### Minor in Art History

*Requirements:* six Visual Arts courses, including one of 27-105, 27-106, 27-107, 27-108 or 27-110; plus 28-150, 28-214, 28-215 and two additional art history courses.

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## CHEMISTRY AND BIOCHEMISTRY

### Minor in Biochemistry

The minor in Biochemistry consists of six courses, including 59-140 and 59-141, plus four courses at the 200 level or above. At least three of the four courses at the 200 level or above must be chosen from 59-261, 59-362, 59-363, 59-365, 59-464, 59-466, 59-468 and/or 59-480. Selected courses leading to the minor may not consist of anti-requisites to courses in the student's degree program. Students must also remember to select only courses which may be otherwise counted for credit towards their degree programs. The following courses cannot be used towards the minor in Biochemistry: 59-201, 59-191, 59-291 and 59-263. An overall average of C+ or higher must be obtained, with no individual course having a mark lower than C-.

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## BIOLOGICAL SCIENCES

### Minor in Biological Sciences

A minor in Biological Sciences requires an average of 5.0 or better in at least six Biology courses, including [55-140](#), [55-141](#), [55-210](#), [55-211](#), [55-213](#), and [55-341](#).

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## ODETTE SCHOOL OF BUSINESS

### Minor in Business Administration

The Minor shall consist of: 70-151, 70-255, 71-240, 72-270, 74-231, 75-100. Students must obtain a minimum average grade of 5.0 in the courses applied to the Minor and a minimum grade of 5.0 in each business course applied to the minor.

\* NB: The Minor in Business will be open to any undergraduate student. Please note however that students must obtain the required prerequisite courses such as math and economics for some of the courses within the Minor.

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## CHEMISTRY AND BIOCHEMISTRY

### Minor in Chemistry

The minor in Chemistry consist of six courses, including 59-140 and 59-141, plus four courses at the 200 level or above, one of which must be at the 300 level or above. All four courses at the 200 level and above must be in organic (x3x), inorganic (x5x), physical (x4x) and/or analytical (x2x) chemistry. Selected courses leading to the minor may not consist of anti-requisites to courses in the student's degree program. Students must also remember to select only courses which may be otherwise counted for credit towards their degree programs. The following courses cannot be used towards the minor in Chemistry: 59-201, 59-191, 59-291 and 59-263. An overall average of C+ or higher must be obtained, with no individual course having a mark lower than C-.

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## PSYCHOLOGY

### Minor in Child Psychology

*Requirements:* Six courses in Psychology, including 46-115, 46-116, and four of 46-223, 46-224, 46-322, 46-323, 46-324, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, and 46-427.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Classical Studies - Minor Requirements

Classical Studies: six courses in Classical Studies, with no more than four at the 100-level.

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## COMMUNICATION STUDIES

### Minor in Communication Studies

*Required:* six Communication Studies courses, consisting of 40-101, any two of the following: 40-200, 40-202, 40-225, 40-234, 40-257, 40-275, plus three additional courses, with at least one at the 300 level or above.

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## COMPUTER SCIENCE

### Minor in Computer Science

The minor in Computer Science consists of the following courses in which students must maintain an average grade of C- or better: 60-100, 60-140, 60-141, 60-205, 60-212, and one of 60-254, 60-256, or 60-265.

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## DIASPORA STUDIES

### Minor in Diaspora Studies

*Requirements: Six courses: 07-236, 45-170, 49-112 and three of the following: 07-235, 26-354, 26-361, 26-371, 34-255, 40-245, 40-262, 40-462, 43-361, 43-369, 45-370, 46-235, 46-236, 46-342, 46-445, 47-210, 48/49-240, 48/49-241, 48/49-333.*

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## DRAMATIC ART

### Minor in Dramatic Art

*Requirements:* six courses in Dramatic Art, including 24-330 or 24-333. No more than two courses may be at the 100 level.

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## ECONOMICS

### Minor in Economics

A minor shall consist of 41-110, 41-111, 41-221, 41-231, and two additional Economics courses. An average of C- or better is required in the six courses.

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**ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING**

**Minor in English Language and Literature**

Required: a minimum of six English courses, including:

(a) one literature course at the 100-level;

(b) two courses at the 200-level;

(c) one course at the 300-level;

(d) two more courses numbered 200 or above.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Minor in Environmental Science

The minor in Environmental Science consists of a total of six courses as described below.

Selected courses leading to the credit of a minor in Environmental Science may not include antirequisite or prerequisite courses in a student's degree program, nor can they fulfill "Major" requirements of a student's program as it appears in this Calendar.

*Select a total of six courses from the following:*

(a) two pairs of courses selected from: 55-140 and 55-141, 61-140 and 61-141, 67-100 and 67-102;

(b) two courses at the 200 level selected from the list of required courses for the Honours Environmental Science program.

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## FAMILY AND SOCIAL RELATIONS

### Minor in Family and Social Relations

Required: 48-204, 48-206, 48-306, 48-329, 48-351; and one of 48-352, 48-409, 48-461.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Minor in French Studies

*Required:* a minimum of six French Studies courses, including 29-121, 29-122, 29-221, and 29-222; plus two courses that may be in Language Training, Translation, Linguistics, Literature or Culture.

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## FACULTY OF SCIENCE

### Minor in General Science

The minor in General Science consists of a total of six Science courses as described below.

Selected courses leading to a minor in General Science may not include antirequisite or prerequisite courses in a student's program, nor can they fulfill "Major" requirements of a student's degree program as it appears in this Calendar. All students are reminded that for courses leading to the minor in General Science, the two introductory computer courses, 60-104 and 73-213, are antirequisites, as are the five introductory statistics courses, 65-205, 02-250, and 85-222.

Science students must also remember to select courses that are eligible for credit towards the B.Sc. degree.

Select two, two-course sequences from the following:

- (a) 55-140 and 55-141;
- (b) 59-140 and 59-141;
- (c) 60-104 or 60-106 and 60-205;
- (d) 60-140\* and 60-141\*;
- (e) 61-140\* and 61-141\*;
- (f) 62-140 and 62-141;
- (g) 64-140 and 64-141;
- (h) 62-140 and 65-205;
- (i) 62-130 and 65-205;
- (j) 67-100\* and 67-102\*.

plus:

Select two additional Science courses at the 200 level or above from one of the areas of study from which one pair of courses had already been selected above.

\*Pairs of courses designated with an asterisk do not have any specific Grade 12"U" or equivalent requirements. Unless specified, two-course sequences cannot be modified.

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### Minor in Geochemistry

A minor in Geochemistry consists of 61-140, 61-220, 61-224, 61-231, and two of 61-328, 61-424, or 61-441.

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**FACULTY OF ARTS AND SOCIAL SCIENCES/EARTH AND ENVIRONMENTAL SCIENCES**  
(Administered by the Faculty of Arts and Social Sciences)

### Minor in Geography

A minor in Geography consists of:

(a) 42-131;

(b) one of 67-100 or 67-102;

(c) four other 42- and/or 67- Geography courses, three of which must be at the 200 level or above.

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## EARTH AND ENVIRONMENTAL SCIENCES

### Minor in Geology

A minor in Geology consists of 61-140, 61-141, 61-220, 61-231, 61-232, and one other Geology course at the 200 level or above. Students are reminded to select courses that may be taken for credit towards the B.Sc. degree.

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- HISTORY**
- Minor in History**
- Required:* six History courses, only one of which may be at the 100 level, and two of which must be at the 300 level or above. Students seeking a second teachable subject area in History are advised that they must take two courses in Canadian History.
- HISTORY: PROGRAM REGULATIONS (and Courses Outside of the Department Which May Be Counted Toward History Requirements)**
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## LABOUR STUDIES

### Minor in Labour Studies

*Required: 54-100, 54-105, plus four other Labour Studies (54-\*\*\*) courses.*

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## FACULTY OF ARTS AND SOCIAL SCIENCES

### Minor in Latin American Studies

*Required:* six courses, including two of 23-261, 43-272, 48-330 (or 49-330); two of 43-462, 48-226 (or 49-226), 48-227, 48-232 (or 49-232), 48-352 (or 49-352), 48-411 (or 49-411); and 23-100 and 23-101 (or 23-102) or two intermediate or advanced level courses in Spanish language training (as appropriate, as determined by a placement test).

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## MATHEMATICS AND STATISTICS

### Minor in Mathematics

A minor in Mathematics consists of at least six courses taken from Mathematics and Statistics, with a minimum grade of 5.0 (C-) in each course, including 62-120, 62-140 and 62-141. The remaining three or more courses must be chosen among 62-190 and courses in the list of major requirements for Mathematics and/or Statistics numbered 200 or higher.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Minor in Modern Languages

#### *Required Courses:*

a) four language training courses in one language option area;

b) 07-137;

c) one culture or civilization course in the chosen language option area (German: 15-260 or 15-261; Italian: 21-260 or 21-261; Spanish: 23-260 or 23-261)

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## MUSIC

### Minor in Music

Six courses, including 2 courses in the area of Music *History and Literature (Musicology)*; 2 courses in the area of Music *Theory and Composition*; plus two other music courses with the exception of private instruction courses. (300 level series)

\*consult course descriptions for information regarding prerequisites.

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## MUSIC

### Minor in Music Therapy

Six courses, including 32-120; 32-330; 32-420; and three of 32-106, 32-107, 32-116, 32-117, 32-121\*, 32-269\*, or 32-331\*.

\*consult course descriptions for information regarding prerequisites

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## PHILOSOPHY

### Minor in Philosophy

*Required:* six Philosophy courses, with no more than two at the 100-level, and at least one at the 300-level or above.

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## PHYSICS

### Minor in Physics

The minor in Physics consists of 64-140, 64-141, 64-151, 64-220, 64-222, and 64-250. Selected courses leading to a minor in physics may not consist of antirequisites to courses in the student's program. Students must also remember to select only courses which may be otherwise counted for credit towards their degree programs.

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## POLITICAL SCIENCE

### Minor in Political Science

(a) 45-100;

(b) one of 45-130 or 45-160;

(c) four Political Science courses at the 200 level or above.

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## PSYCHOLOGY

### Minor in Psychology

*Requirements:* Six courses in Psychology, including 46-115, 46-116, and four courses at the 200 level or above.

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## SOCIOLOGY AND ANTHROPOLOGY

### Minor in Sociology

*Required:* six Sociology courses, including 48-101, 48-102, and four courses at the 200 level or above.

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## SOCIOLOGY AND ANTHROPOLOGY

### Minor in Studies of Sexuality

*Required:* six of 48-205, 53-220, 46-240, 48-450, 48-351, 43-463 (or 53-463).

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## VISUAL ARTS

### Minor in Studio Art

*Requirements:* six Visual Arts courses: 27-105, 27-106, 27-107, 27-108, one 200 level studio course, and one Art History course from: 28-150, 28-214, 28-215.

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## WOMEN'S STUDIES

### Minor in Women's Studies

*Requirements:* six Women's Studies (53-) courses, including 53-100 and one of 53-200, 53-201, 53-202, or 53-400; no more than one other course may be at the 100-level.

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## ARTS AND SCIENCE: COURSES

### 56-301. World Civilizations

An introduction to the politics, culture and history of world civilizations. Focus will vary from year to year, depending on the interests of the instructor. (Open only to students in the BAS program.)

### 56-310. Modes and Methods of Inquiry

This course introduces methodological themes and principles that span disciplines across the Arts and Sciences, with an emphasis on developing skills for the critical appraisal of research literature. The course will enable students to become critical readers of published research in a variety of disciplines. (Open only to students in the BAS program.)

### 56-410. Inquiry and Communication

An introduction to inquiry-based learning with a focus on contemporary political and social issues, emphasizing the professional preparation and presentation of research results. The class will organize a public workshop on a topic that will vary from year to year. (Open only to students in the BAS program.) (Prerequisite: 56-310.)

### 56-420. Research Project

Students will design and implement a research project under the supervision of a faculty member integrating methodologies, critical perspectives and theoretical approaches acquired in the core BAS program. (Open only to students in the BAS program.) (May be repeated once for credit.)

### 56-421. Science, Ethics and Social Policy

Students will explore the ethical dimensions of contemporary scientific controversies and their implications for social policy. The focus will vary from year to year but may include such topics as stem cell research, invitro-fertilization, and global warming, emphasizing the role of scientific and ethical arguments in policy formation. (Open only to students in the BAS Program) (Prerequisite: 56-310.)

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Biology of Organisms</b> Genetics, energetics, and the diversity of life. Properties of living organisms from the level of the cell through tissues, organs and organ systems, to the functioning, integrated organism. This course is offered on-campus and as a flexible learning course (previously 55-102). (Intended for non-majors and students requiring preparation for 55-140 and 55-141.) (May not be taken for credit in any Biological Sciences program.) (2 lecture hours a week.)</p> <p><b>55-101. Organisms and the Environment</b> Organisms interacting with other organisms and with their physical environment. Ecological impacts of human activity. This course is offered on-campus and as a flexible learning course (previously 55-103). (Intended for non-majors and students requiring preparation for 55-140 and 55-141.) (May not be taken for credit in any Biological Sciences program.) (2 lecture hours a week.)</p> <p><b>55-140. Biological Diversity</b> Principles governing living systems; the origins and diversity of life; evolution, reproduction, and heredity; the structure and function of viruses through plants and animals; basic principles of ecology. (Grade 12“U” Biology or equivalent, or 55-100 and 55-101 are strongly recommended; corequisite: Chemistry 59-141 or equivalent.) (3 lecture, 3 laboratory hours a week.)</p> <p><b>55-141. Cell Biology</b> Examination of the principles governing living systems, with emphasis on the molecular and cellular basis of life, molecular genetics, energetics, differentiation, and development. (Grade 12 “U” Biology or equivalent, or 55-100 and 55-101 are strongly recommended; corequisite: Chemistry 59-140 or equivalent.) (3 lecture, 3 laboratory hours a week.)</p> <p><b>55-201. Applied Ecology</b> The effects of humans and technology on the environment. Topics include cause-effect linkages, energy, chemicals in the environment, preservation of biodiversity. (3 lecture hours a week.)</p> <p><b>55-202. Human Anatomy</b> Systemic analysis of the structure of the human body, including gross and microscopic morphology. Laboratory sessions focus on gross and microscopic morphology. (Prerequisites: any two first year biology courses.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>55-203. Introductory Molecular Biology</b> Basic introduction to the molecular biology of the cell with emphasis on basic life processes in both plants and animals, including metabolism, energy transformations, transport mechanisms, signal transduction, and other general functions. The major topics covered include: Regulation of eukaryotic gene expression, fundamental aspects of recombinant DNA technology, DNA cloning, hybridization analysis, microarrays, and protein structure and function. (Antirequisite: 55-213; Prerequisite: 55-140 and 55-141; Corequisite: Chemistry 59-261.) (3 lecture, 3 laboratory hours or equivalent a week.) (A Flexible Learning course restricted to graduates of programs in Medical Technology from a College of Applied Arts and Technology with more than 100 hours of certified laboratory experience; or by consent of the instructor.)</p> <p><b>55-204. Human Physiology I</b> Introduction to human physiology: a systems approach. Topics include homeostasis and feedback control, enzymes and energy, membrane transport, metabolism, and the nervous, skeletal muscle, and cardiovascular systems. This course is offered on-campus and as a flexible learning course. (Prerequisites: any two first year biology courses.) (3 lecture hours a week.)</p> <p><b>55-205. Human Physiology II</b> Introduction to human physiology: a systems approach. Topics include respiratory, endocrine, digestive and renal systems, and control of metabolism. (Prerequisite: 55-204 or consent of instructor.) (3 lecture hours a week.)</p> <p><b>55-208. Plants and Society</b> Earth’s biosphere is the product of plant activity and animal life is ultimately dependent on plants. This course provides a introduction to the relationship between humans and plants, particularly economically important plants and their products, as sources of food, flavours, drugs, stimulants, fuel and industrial raw materials. Conservation , international programs, and introduction of genetically modified plants will be discussed. (Prerequisite: 55-140 and 55-141 or permission of the instructor.) (3 lecture hours.)</p> <p><b>55-210. Ecology</b> Introduction to the fundamental concepts of ecology including factors affecting species distribution, reproductive strategies, population growth and regulation, species interactions, and community level organization and energetics. (Prerequisites: 55-</p>
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140 and 55-141.) (3 lecture, 2 laboratory/discussion hours a week.)

#### **55-211. Genetics**

The course reviews transmission genetics and principles of inheritance. The material also includes non-nuclear inheritance and gene linkage, gene expression and regulation, mechanisms and phenotypic effects of DNA mutation and repair, and the principles and applications of population and quantitative genetics. Students will be exposed to molecular genetic techniques such as PCR and DNA sequencing. (Antirequisite: 55-212; Prerequisite: 55-140 and 55-141.) (3 lecture, 3 laboratory hours a week.)

#### **55-212. Genetics**

The course reviews transmission genetics and principles of inheritance. The material also includes non-nuclear inheritance and gene linkage, gene expression and regulation, mechanisms and phenotypic effects of DNA mutation and repair, and the principles and applications of population and quantitative genetics. Students will be exposed to molecular genetic techniques such as PCR and DNA sequencing. This is a Flexible Learning course designed primarily for graduates of programs in Medical Technology from a College of Applied Arts and Technology. This course may not count as a major requirement for Biology Majors. (Antirequisite: 55-211; prerequisites: 55-140 and 55-141, or the equivalent.) (3 lecture, 3 laboratory hours or equivalent a week.)

#### **55-213. Introductory Molecular Biology**

Basic introduction to the molecular biology of the cell with emphasis on basic life processes in both plants and animals, including metabolism, energy transformations, transport mechanisms, signal transduction, and other general functions. The major topics covered include: Regulation of eukaryotic gene expression, fundamental aspects of recombinant DNA technology, DNA cloning, hybridization analysis, microarrays, and protein structure and function. Practical laboratory work will complement the lectures. (Antirequisite: 55-203; Prerequisite: 55-140, 55-141, and 55-211; Corequisite: 59-261.) (3 lecture, 3 laboratory hours or equivalent a week.)

#### **55-237. Introductory Microbiology**

Growth, genetics, structure, physiology, and diversity of microbes and viruses. This course is offered on-campus and as a flexible learning course. (Previously 55-206.) (Prerequisites: any two first year biology courses; Antirequisite: 55-238.) (3 lecture hours a week.)

#### **55-238. Introductory Microbiology and Techniques**

Growth, genetics, structure, physiology, and diversity of microbes and viruses. (Antirequisites: 55-206, 55-237; prerequisites: 55-140 and 55-141.) (3 lecture, 3 laboratory hours a week.)

#### **55-242. Immunology**

The formation and structure of antibodies, antigens and the mechanisms of antigen-antibody interactions. This course is offered on-campus and as a flexible learning course. (Prerequisites: 55-140 and 55-141; corequisite: 59-230.) (2 lecture, 3 laboratory hours or equivalent a week.)

#### **55-258. Principles of Neuroscience**

This course is meant to serve as a survey course that will provide familiarity with and an understanding of the basic principles of Neuroscience. The main emphasis will be on the morphology of neural systems, processes of neural signalling and communication, and how such basics relate to sensory processes and behaviour. The main purposes of the course are to provide a background for students interested in, and those taking higher level courses related to the neurosciences. (Prerequisites: 55-140, 55-141, 55-204, or permission of instructor.) (3 lecture hours.)

#### **55-298. Co-op Work Term I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **55-299. Co-op Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **55-320. Experimental Principles and Design in Biology**

Introduction to the logic and principles used to develop sound and efficient studies in the biological sciences: generating, testing, and discriminating among hypotheses; dealing with unwanted sources of variation; assumptions and appropriate choice of statistical analysis. Instruction in the use of selected network and personal computer software for data analysis and presentation. (Prerequisites: 55-210, 55-211, 55-213, and 65-205, or consent of instructor.) (3 lecture, 2 laboratory/tutorial hours a week.)

#### **55-324. Population Ecology**

Topics of current interest in population theory including population growth and regulation, plant-herbivore interactions, optimal strategies of foraging, reproductive allocation, and the evolutionary responses of populations. (Prerequisites: 55-210 and 55-211.) (3 lecture hours a week.)

#### **55-325. Community Ecology**

Topics of current interest in community theory including predation and competition, species diversity and resource utilization, community energetics, and the relationship between complexity and stability of communities. (Prerequisite: 55-210.) (3 lecture hours a week.)

#### **55-341. Evolution**

Topics include the interaction of gene mutation, selection, and population characteristics in the process of evolution, mechanisms of speciation, and current problems in evolution. (Prerequisite: 55-211.) (3 lecture hours a week.)

#### **55-350. Molecular Cell Biology**

An integration of recent findings in molecular and cell biology with those in biochemistry and genetics. The main focus will be on regulation of gene transcription, intracellular signalling, transport processes, and cell cycle events. This course is offered on-campus and as a flexible learning course. (Prerequisites: 55-211 and 55-213, or 55-212 and 55-203 with appropriate laboratory experience and signature of instructor.) (3 lecture hours a week.)

#### **55-351. Medical Microbiology**

Viral and bacterial pathogenesis, including the processes and genetic control of human diseases. This course is offered on-campus and as a flexible learning course (previously 55-241). (Antirequisite: 55-352; Prerequisite: 55-237 or 55-238.) (3 lecture hours a week.)

#### **55-352. Medical Microbiology and Techniques**

Viral and bacterial pathogenesis, including the processes and genetic control of human diseases. (Antirequisite: 55-351; prerequisite: 55-238.) (3 lecture, 3 laboratory hours a week.)

#### **55-355. Embryology**

Cellular, molecular, and biochemical mechanisms of gametogenesis, fertilization, cleavage, and organogenesis in a variety of animal systems. A major paper is required. (Prerequisites: 55-210, 55-211, and 55-213.) (3 lecture hours a week.)

#### **55-357. Animal Cells and Tissues**

The structure and organization of animal systems at the tissue, cellular, and subcellular levels. Contemporary techniques, including electron microscopy, immunocytochemistry, and in situ hybridization are discussed. (Prerequisites: 55-211 and 55-213.) (3 lecture, 3 laboratory hours a week.)

#### **55-359. Invertebrate Biology**

Survey of major classes of the invertebrates from an evolutionary, phylogenetic, and ecological perspective. Emphasis on the morphological, physiological, and behavioural adaptations that permit animals to exploit the full range of earth's habitats, including the living bodies of other organisms (parasitism). (Prerequisites: 55-210, 55-211, and 55-213.) (3 lecture, 3 laboratory hours a week.)

#### **55-360. Ornithology**

This course gives students a thorough understanding of the biology of birds, with an emphasis on avian ecology, evolution, and behaviour. This course complements Ecology, Evolution, Physiology, Animal Behaviour, and Conservation. Classroom lectures are integrated with laboratory exercises which provides students with hands-on exposure to the topics covered. Students will learn to identify the common birds in the Windsor area. All students are required to participate in a full-day laboratory at Point Pelee and Holiday Beach on a weekend in late September or early October. (Prerequisite: 55-210.) (3 lecture, 3 laboratory hours a week.)

#### **55-380. Biotechnology Laboratory**

This intensive laboratory course will primarily simulate the discovery and rapid protein characterization of genes and gene products. Laboratory experiments will include cutting edge biotechnology techniques and traditional biochemical and molecular biology methodology. For example, DNA/plasmid isolation, cloning, DNA sequencing and analysis, introduction to bioinformatics and microarray technology, characterization of cloned products, protein isolation and characterization, and determination of enzymatic catalysis and regulation will be used to study this enzyme on a genetic and protein level. Other topics include forensic genetics and plant biotechnology. (Prerequisite: 55-213 and 59-261.) (1 tutorial/lecture hour and 6 laboratory hours per week over two terms, 6 credit course.) (Registration priority will be given to students for which this course is a program requirement.)

#### **55-420. Undergraduate Research in Biology**

Completion of an undergraduate research project, including an oral presentation at an annual colloquium and submission of written final report. (Registration and selection of supervisor will be completed with consent of the Department Head.) (10 laboratory hours a week; offered over two terms.) (A 6.00 credit hour research project which counts as two courses.)

#### **55-423. Undergraduate Research in Biology**

Completion of an undergraduate research project, including an oral presentation at an annual colloquium and submission of written final report. (Registration and selection of supervisor will be completed with consent of the Department Head.) (Restricted to students who have completed 55-420.) (10 laboratory hours a week; offered over two terms.) (A 6.00 credit hour research project which counts as two courses.)

#### **55-425. Animal Behaviour**

This course will emphasize the link between organisms and their environment. The thrust of the course will be to understand why different species behave in different ways and why within species there may be individual differences in behaviour. The aim of the course is to derive a basic understanding of how animals have evolved behaviours that aid in survival and reproduction. Students will gain experience by participating in activities throughout the term. (Prerequisites: 55-210, 55-211, 55-213, or permission of instructor.)



**55-430. Ecotoxicology**

The transport, fate and effects of toxic chemicals in aquatic ecosystems; food web modelling in the context of contaminant movement; risk assessment. Laboratory work will include toxicokinetics, toxicity testing, and measurements of contaminant stress. (Prerequisites: 55-210 and 55-213.) (3 lecture, 3 laboratory hours a week.)

**55-437. Conservation Biology**

Principles of conservation biology emphasizing population and biogeographic attributes, including genetics, habitat fragmentation, and island processes, which characterize endangered species and habitats. Case studies of management of threatened species and habitats will be addressed. (Prerequisites: 55-210 and 55-211, or consent of instructor.) (3 lecture hours a week.)

**55-440. Biology of Fishes**

The fishes are the most diverse, the oldest, and the most abundant group of vertebrates on earth. This course surveys their evolution, their phylogenetic relationships, and their morphological, physiological, behavioural, and ecological adaptations to life in virtually every aquatic environment on earth. The laboratory includes units on gross anatomy of a typical actinopterygian fish, identification of local fauna, study of age and growth, and other selected topics. (Prerequisites: 55-210, 55-211, 55-213.) (2 lecture, 3 laboratory hours a week, 1 field trip.)

**55-444. Aquatic Ecology: Physical Processes and Biotic Responses**

Physical properties and biotic responses in rivers and lakes, including morphometry, energy processing, behavioural adaptations of organisms, and interactions among organisms. (Prerequisite: 55-210.) (3 lecture, 3 laboratory hours a week, 1 week-end field trip.)

**55-445. Aquatic Ecology: Community and Ecosystem Processes**

Selected aspects of the ecology of large water masses-large lakes, estuaries, and oceans. Emphasis on physical properties and chemical dynamics of aquatic systems, and on life history requirements in such systems. (Prerequisite: 55-210 or 55-486.) (3 lecture hours a week.)

**55-453. Biology of Cell Transformation**

Molecular and cellular mechanisms of cell transformation and tumor development with emphasis on the role of oncogenes and environmental factors in cell transformation, and on the cellular and molecular biology of malignantly transformed (cancerous) cells, experimental analysis and applications. A major paper and/or seminar is required. (Prerequisites: 55-350, 59-230, 59-261, and consent of instructor.) (3 lecture hours, 1 tutorial/laboratory hour a week.)

**55-454. Molecular Biology of Growth and Development**

Analysis at the molecular level of the growth and development of prokaryotes, phages, lower eukaryotes, and their plasmids. (Prerequisites: 55-350.) (3 lecture hours a week.)

**55-455. Developmental Signaling and Developmental Genetics**

Analysis at the molecular level of the activation and control of genes and proteins during oogenesis and early development in lower and higher eukaryotes. (Prerequisite: 55-355 or consent of course co-ordinator.) (3 lecture hours a week.)

**55-460. Molecular Biotechnology**

Introduction to the techniques and applications of recombinant DNA technology and genetic engineering. Topics include the generation of transgenic organisms (microbes, plants, and animals) and their impact on agriculture and medicine. The social ramifications of these technologies will be discussed. (Prerequisites: 55-350.) (3 lecture hours a week.)

**55-464. Plant Molecular Biology and Physiology**

Plant development and its coordination by means of hormones and other molecular signals. Molecular approaches applied to the analysis and modification of plant development will be discussed. (Prerequisite: 55-213.) (2 lecture hours, 1 seminar hour a week.)

**55-465. Readings in Biotechnology**

Selected recent publications in the field of biotechnology will be discussed. Topics may include recent advances in animal, plant and microbial biotechnology along with innovations in genetic technologies. (Prerequisites: 55-211, 55-213 and 55-350.) (3 hours of lecture/seminar/class discussion a week.)

**55-468. Plant Ecology**

Evolutionary and community aspects of plant interactions with other organisms and the physical environment. The course deals with plant demography at different levels: individual, population, community, and ecosystem. (Prerequisite: 55-210.) (3 lecture, 3 laboratory hours a week.)

**55-480 to 55-483. Special Topics in Biology**

Selected topics of current interest which may vary from year to year.

The University of Windsor is a member of the *Ontario Summer Field Courses Program*. Students may select and receive credit for one or more of over thirty field courses under the "Special Topics" designation. Courses are normally advertised in January. Because enrolment is limited, students should apply as early as possible. For further information, contact the Department.

**55-485. Nerves, Muscles, and Glands**

A systemic view of neural, muscular, and neuroendocrine regulation. Physiological control mechanisms at the levels of molecules through cells, neural circuits and behaviour are discussed. (Prerequisite: 55-213.) (3 lecture, 3 laboratory hours a week.)

**55-486. Great Lakes Field Biology**

The physical, chemical, and biological properties of the Great Lakes system; measures of transport and fate of contaminants in aquatic systems and food webs; changes in species abundance, composition, and distributions. Field work stresses sampling techniques and measurements of temporal and spatial variation. Students are required to complete a project and present a seminar. (Antirequisite: 55-234; Prerequisites: 55-210 and 65-205, or consent of instructor.) (2 weeks, Intersession; 26 hours lecture, 52 hours field/laboratory work, 8 hours seminar.)

**55-498. Co-op Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**55-499. Co-op Work Term IV**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

# Winter 2008 Undergraduate Calendar

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All courses will be three hours a week unless otherwise indicated.</p> <p><b>ACCOUNTING</b></p> <p><b>70-151. Financial Accounting I</b> An introduction to the theory and concepts of financial accounting including generally accepted accounting principles and issues as to classification, recognition, realization, measurement and reporting. The emphasis of the course is from the perspective of the user of accounting information, allowing the student to become familiar with the information available and its content value.</p> <p><b>70-251. Intro to Financial Accounting Theory</b> This is the first of 3 courses of intermediate accounting that presents the current developments in the theory of generally accepted accounting principles and CICA (Canadian Institute of Chartered Accountants) standards are introduced. An in-depth, theoretical examination of the determination, measurement, classification and reporting of assets is presented. (Prerequisites: 70-151).</p> <p><b>70-255. Managerial Accounting I</b> An introduction into management's use of internal accounting information for planning, managing, controlling and evaluation of business operations. Topics include cost concepts and costing techniques (including activity based costing), budgeting, cost-volume-profit analysis, standard costing, performance evaluation and product pricing. (Prerequisite: 70-151). (Credit may not be obtained for both 70-152 and 70-255).</p> <p><b>70-256. Managerial Cost Accounting</b> Accounting for, and reporting and analysis of costs relating to production, marketing and administration of enterprises. Emphasis will be on analysis of accounting information in connection with planning, controlling, reporting, performance evaluation, and decision-making. Behavioural and ethical issues in the use of accounting information will be discussed. (Prerequisite: 70-152. Credit may not be obtained for both 70-255 and 70-256).</p> <p><b>70-351. Accounting Theory I</b> Current developments in the theory of generally accepted accounting principles and standards are introduced. An in-depth theoretical examination of the determination, measurement, classification and reporting of assets. Accounting for special items, such as accounting changes and error corrections are examined in detail. (Prerequisite: 70-251 and 70-255).</p> <p><b>70-352. Accounting Theory II</b> An in-depth theoretical examination of the determination, measurement, classification and reporting of liabilities, income taxes, and owners' equity. Emphasis is given to the use of time-adjustment techniques in connection with the accounting for bonds, pensions, and leases. The statement of changes in financial position is studied in detail. (Prerequisite: 70-351 or consent of the instructor.)</p> <p><b>70-358. Accounting Information Systems</b> The design and operation of manual and computerized accounting systems. The study of control environment, management and control of transactions and accounts, such as, accounts receivable, accounts payable and inventory. Emphasis will be given to the acquisition and input of information into accounting information systems; modes and methods of file structures and storage of accounting information; retrieval inquiry and report creation of information in files as well as financial statement preparation, analysis, and managerial decision making. Related issues such as audit trail, data retrieval, and data security will also be covered. (Prerequisite: 70-256 and 73-213 or consent of the instructor.)</p> <p><b>70-360. Auditing I</b> An introductory course designed to provide a broad foundation for all major aspects of auditing. This course focuses on objectives, concepts, standards, strategies, processes, and communications relating to external audits. Other services provided by public accountants and current developments affecting auditing and the auditing profession are considered. (Prerequisite: 70-352, and Corequisite 70-358.)</p> <p><b>70-361. Taxation I</b></p>
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This is the first of two courses designed to examine the Income Tax Act. This course focuses on the determination of residency and of income for tax purposes. Other tax related topics such as tax planning concepts, and concepts underlying the Act will be discussed. (Prerequisite: 70-351 or consent of the instructor.)

**70-452. Independent Study in Accounting**

This course must be taken under the direct supervision of an accounting faculty member. (May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

**70-456. Advanced Managerial Cost Accounting and Analysis**

This course is designed to focus on the role and use of accounting information in management decision making, and for formulating policy and strategy. The application of some of the advanced techniques for planning, controlling and performance evaluation will be discussed. Behavioural and ethical issues will be considered. (Prerequisite: 70-255 or 70-256 with a min. of C [6.0] grade.)

**70-457. Advanced Accounting I**

A study of concepts, standards and procedures underlying intercorporate investments including portfolio investments, investments involving significant influence, and investments involving control. The preparation of consolidated financial statements under a variety of circumstances is studied in detail. Other topical areas, such as foreign currency transactions and translation, will also be covered. (Prerequisite: 70-352.)

**70-458. Advanced Accounting II**

A study of the topical areas in accounting such as price-level and current-value accounting; governmental and other non-profit organizations; international accounting; interim and segmented reports; forecasts and projections; effect on human behaviour and emerging issues. (Prerequisite: 70-457 or consent of the instructor.)

**70-459. Advanced Topics in Managerial Accounting**

This course integrates quantitative and qualitative strategic analysis of accounting and business issues necessary for those intending to pursue a professional designation and management accounting careers to understand. A strategic simulation, formal case analyses, and contemporary accounting research form the structure of course materials intended to provide comprehensive insight into how to evaluate and formulate resolutions to the issues facing top management executives. Topics will include but are not limited to the application of knowledge to evaluate and recommend new solutions to long standing as well as recently articulated management issues of cost-effectiveness that include but are not limited to: affordable and sustainable development; risk assessment and diversification; maintenance of an appropriate local and global labour force; governance and regulatory compliance and non-compliance in a global environment; ethical management practices; and fulfilling professional responsibilities. (Prerequisites: 70-352, 70-456, 73-331.) (Open to Business students only.)

**70-460. Auditing II**

This course is designed to provide an in-depth knowledge of the major aspects of auditing. It will examine topics such as audit sampling; public accountants' communications to users of accounting and non-accounting information; and emerging issues in auditing. (Prerequisites: 70-358 and 70-360.)

**70-461. Taxation II**

This course will focus on the computation of taxable income for individuals and corporations, and determination of tax. Tax planning techniques in business in a variety of situations will be discussed and other topics such as the Goods and Services Tax will also be considered. (Prerequisite: 70-361.)

**70-462. EDP Auditing**

This course is designed to focus on the integration of auditing concepts, standards and procedures in a computerized environment. It will examine EDP general and application controls, the similarities and differences between manual and EDP systems from the auditor's perspective, and will introduce computer-assisted audit techniques, and emerging technologies in EDP auditing. (Prerequisites: 70-358 and 70-360.)

**MANAGEMENT AND LABOUR STUDIES**

**71-100. Introduction to Business Communications**

Research has shown that effective communication skills are as necessary to career advancement as technical competence, work experience and academic qualifications. The importance of communication skills is not surprising when you consider that the average business manager spends 75-80% of the day communicating in one form or another. Thus, the focus of this course is to help you to sharpen your ability to communicate and manage conflict effectively - with individuals, within small groups, and with large audiences. This course stresses practical skill building for leaders. Time is spent on communication concepts and techniques, planning, organizing and making presentations, as well as the application of behavioural science theory to business communication and leadership. (Prerequisite: 75-100.)

**71-140. Principles of Management**

As an introduction to management in organizations, this course surveys a variety of contemporary management topics including: motivation, leadership, job and organizational design, technology, ethics, demographic diversity, and international management. The functions of management are discussed from classical, behavioural, contingency and systems perspectives.

**71-240. Introduction to Management and Organizational Life**

This course provides an overview of the basics of management theory, coupled with a more applied view of how that theory may work in an organizational setting. It will build upon the understanding of strategic positioning and context provided by its new prerequisite Introduction to Business (75-100) where stakeholders, the environment, and business issues provide the

background for understanding the challenges facing today's manager. The course will provide some experiential opportunities to develop team and leadership skills, while looking at the what affects the role of the individual and the group within the structure of the organization. An understanding of the influences upon and ways to motivate behaviour in organizations will be developed. (Prerequisite: 75-100.)(Credit can not be obtained for 71-240 or 71-340).

#### **71-243. Human Resources Management**

Human Resources Management (HRM) is concerned with the management of people at work - a key responsibility of people at work - a key responsibility of every manager within an organization. Topics include: integrating HRM decision making within a business strategy, recruiting and selecting qualified employees, developing and evaluating human resources and retaining and motivating employees through compensation systems, labour relations, and quality of work life initiatives. In recognition of the importance of the increasingly global context to Canadian organizations, the course incorporates a continuing international focus. (Prerequisites: 75-100.)

#### **71-340. Organizational Behaviour**

A study of individual and group behaviour in formal organizations as influenced by social, individual, organizational, and technological constraints. Topics include: personality; attitudes; motivation; group dynamics; roles, norms and status; decision making; power and control; conflict; change; leadership. Emphasis is placed on group projects that allow students to gain skills at managing behavioural differences in organizations. (Prerequisite: 71-140 or consent of the instructor.) (Credit can not be obtained for 71-240 or 71-340).

#### **71-342. Compensation Management**

This course is intended to give an understanding of the power of organizational rewards and managing this power for organizational effectiveness. This course entails an outline of the major concepts and principles of equitable reward design within organizations. Topics include the planning of salary and wages, pay equity, incentive pay, benefits, non-financial rewards, and the clarification of the linkages between rewards and desired behaviours. Special emphasis is given to reward system design and the evaluation of compensation program effectiveness. (Prerequisites: 71-240 and 71-243.)

#### **71-344. Labour-Management Relations**

A comprehensive introduction to the dynamic world of labour and management relations focusing on the unionized sector. The problems, issues, and challenges growing out of the labour-management relationship are examined against a broad background of information, including: the differences between union and non-union workplaces; the development and operation of labour unions; the impact of labour legislation; the negotiation and administration of collective agreements; and the resolution of industrial conflict. Given the size and importance of this unionized workforce in Canada, the knowledge and skills developed in this course have wide application. (Prerequisite: 71-243 or Semester 3 or above standing in the Labour Studies program.)

#### **71-347. Women at Work**

This course examines women's work experiences in the workplace and in the household from a critical perspective. Topics include the division of labour by sex, the value of women's labour, sexual harassment, and women's union participation. (Prerequisite: 75-100 or 53-100 and Semester 4 or above standing.) (Cross-listed as 53-360.)

#### **71-383. Managing in a Global Business Environment**

This course examines the management process for firms operating in the global business environment; we discuss planning, organizing, staffing, directing, and control issues from an international perspective, including global, ethical and environmental issues. A particular focus of the course is the management of people; we discuss staffing and training choices for parent country nationals, host country nationals and third country nationals, and we explore issues relating to motivation in diverse cultural contexts. (Prerequisite: 71-243.)

#### **71-441. Training and Development**

This course has an experiential focus: student teams are responsible for developing and presenting their own training programs. The focus of this course is on the three major aspects of training and development efforts: (1) needs assessment, (2) program development, and (3) evaluation. Course topics include the design of training programs, adult learning models, development managerial skills, and the design of effective workshops. This course has an experiential focus; student teams are responsible for development and presenting their own training programs. (Prerequisites: 71-240 and 71-243.)

#### **71-443. Human Resources Research and Information Systems**

This course is designed to provide the student with an understanding of the research methodology as applied to the fields of human resources management and industrial relations. Topics will include experimental designs, field studies and surveys, scale development, and ethical issues in research. The course also will introduce the basic development, implementation, and use of a computerized human resources information system. (Prerequisites: (Prerequisites: 71-240, 71-243, 71-344, and 73-213.)

#### **71-445. Organization Design**

This course is designed to provide the student with an understanding of the importance of structure and processes in the analysis of modern complex organizations. It addresses how the internal structures should be changed, renewed, and adapted in view of external environmental threats and opportunities emanating from political, economic, social, legal, technological, and demographic changes. Topics include: organizational goals and effectiveness, structure and design, bureaucracy and life cycle, structural archetypes, information and control, power and politics, intergroup relations and conflict, structure-strategy relations and organizational renewal. This course utilizes the case method and other applied problem-solving skills in analyzing and evaluating organizational structures and processes. (Prerequisite: 71-240.)

#### **71-446. Topics in Management and Labour Studies**

This is a seminar course covering major concepts or current problems or issues in the area of Management and Labour

Studies. The topic to be covered in a particular semester will vary and will be announced in the previous semester. Interested students should consult the Area Convenor of Management and Labour Studies. (May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

#### **71-448. Labour Relations Law and Employment Legislation**

Legislation, administrative agencies and courts play a significant role in shaping employer-employee relationships. This course aims to increase the knowledge and provide analytical skills to students who are interested in employment relationships in union and non-union workplaces. The course includes an analysis of labour relations law, employment standards law, the occupational health and safety law. Emphasis will be placed on Ontario laws. Lectures and case discussions will be used. (Prerequisite: 71-344.)

#### **71-449. Collective Bargaining**

Various aspects of union-management negotiations in the private and public sector will be discussed. A key aspect of the course is a bargaining simulation played by students assuming the role of union and management negotiators. Grievance arbitration and other dispute settlement procedures will also be discussed. Students will learn negotiation and conflict resolution skills relating to the union-management relations. (Prerequisite: 71-344.)

#### **71-451. Organizational Staffing**

At the heart of the organizational staffing process is the forming of matches between people and jobs that will result in an effective workforce for the organization. The course identifies the key influences upon, and components of staffing and overviews such support activities as job analysis, external and internal recruitment, selection and the assessment of staffing effectiveness. The course goes on to examine the deployment processes that represent the end point of the person/job match. This match does not have to be permanent, and so the course goes on to give consideration to equitable termination and outplacement practices which are required when people leave the organization. (Prerequisite: 71-243.)

#### **71-452. The Management of Organization Health, Wellness and Safety**

Health and safety plays a prominent role in the development of a strong organizational culture and a productive workforce. This course emphasizes the key goal of managers and HR professionals to create, develop and nurture a culture that is fully aware of the importance of safety and the advantages of a proactive employee wellness culture, and is willing to take the necessary steps to achieve it. Students will evaluate practices in the areas of health, safety, security and Workers' Compensation and the importance of due diligence and meeting safety legislation. An emphasis in the course is the adoption of proactive programs of employee wellness and assistance, careful medical and safety testing and the implementation of strategies to minimize compensation costs and maximize compliance with safety guidelines. (Prerequisite: 71-243.)

#### **71-481. Diversity in the Workplace**

This course will address the knowledge and skills managers must develop in meeting the opportunities and challenges created by the diversity in the labour force. It will draw on the literature from a number of disciplines in focussing on interpersonal relationships as managers interact with and work with persons who are different from themselves. The human rights legislation will provide the framework for discussions on managing and valuing diversity in terms of gender, age, race, religion, ability and other groups. The course will use lectures and case discussions on the role of union and management in implementing equity in the workplace. (Prerequisite: 71-243.)

#### **71-485. Human Resources Planning**

This course is concerned with planning of the human resources needs of organizations, focusing, in particular, on the role of the Human Resources Management function in this task. The objective is to provide an understanding of how the essential elements of the human resources planning process, in both unionized and non-unionized organizations, can be designed to match the wider organizational context. Topics include the assessment of human resources strategy and the application of planning principles to the different activity areas of human resources management, such as staffing, development and the management of diversity. An ongoing theme is the evaluation of how strategic human resources management contributes to organizational effectiveness. (Prerequisites: 71-240, 71-243 and 71-344.)

#### **71-492. Independent Study Course**

The student, with the agreement of the instructor, will select, research and report on a topic. (May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

### **FINANCE**

#### **72-270. Business Finance I**

A basic theoretical framework for decision making in financial management. The primary objective of the course is to study and understand the concepts and principles of financial management of the business enterprise. After an introduction to managerial finance, the course will cover the areas of financial analysis, planning and control, and working capital management. (Prerequisites: 70-151, 73-101, 75-100, 41-110, 41-111 and, 62-194 or equivalent.)

#### **72-271. Business Finance II**

The focus of this course is the long-term area of financial management. The objective is to develop an understanding of the concepts and principles of the management of capital assets and resources. Topics include capital budgeting, cost of capital, capital structure, sources of long-term financing, and budgeting will be covered. (Prerequisites: 73-102 or 73-105 and 72-270.)

#### **72-371. Intermediate Corporate Finance**

This course covers important topics in Corporate Finance regarding long-term investment and financing decisions. It provides an in-depth analysis of valuation and capital budgeting, risk and return, capital structure and dividend policy, long-

term financing, and mergers and acquisitions. The approach will be oriented towards the development of skills which serve to enhanced decision making in a corporate setting. (Prerequisite: 72-271.)

**72-373. Working Capital Management**

A seminar in working capital management using case studies. Emphasis is placed on domestic and international cash management, control of accounts receivable, principles of inventory management, short and intermediate term financing. (Prerequisite: 72-271.)

**72-374. Finance: Long-term Financial Management**

A seminar course in long-term financial management. Particular attention is directed toward long-term sources of funds, the firm's capital structure, and the cost of the various sources of long-term funds. Principles are illustrated by means of case studies. (Prerequisite: 72-271.)

**72-375. Pension Management and Design**

This course provides an overview of pension administration and design. Emphasis is placed on analyzing the problems corporations face in establishing, changing or terminating a pension plan. The concepts and techniques used in managing existing plans are also discussed. (Prerequisite: 72-271.)

**72-471. Investment Fundamentals**

Appraising bonds, preferred, and common stocks as vehicles for investment. The course also involves the study of alternative investments, the market setting, technical analysis, and securities legislation in Canada. (Prerequisite: 72-271.)

**72-472. Portfolio Management**

The shaping of portfolios to fulfill the needs of individuals and institutions including risk-return concepts, diversification, beta analysis, and market efficiency. (Prerequisite: 72-371.)

**72-475. Management of Financial Institutions**

An analysis of the assets and liabilities of major Canadian financial institutions. An evaluation of the domestic and international financial problems faced by these institutions. A review of financial systems outside of Canada. (Prerequisite: 72-271.)

**72-476. International Financial Management**

A study of international corporate financial management, international banking, and financial markets. Emphasis is placed on foreign exchange and exposure management. The financial problems and risks faced by multinational corporations and banks are also discussed. (Prerequisite: 72-271.)

**72-477. Analysis of Financial Decisions**

This course focuses on the quantitative tools and models that have been most widely used in financial management, including: measurement and management of different dimensions of risk, valuation of different securities, arbitrage pricing relationships across securities markets. It is also to acquaint students with a number of important issues in current financial industry and to introduce some basic financial research techniques. (Prerequisite: 72-371.)

**72-479. Independent Study**

(May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

**MANAGEMENT SCIENCE**

**73-101. An Introduction to Business Data Analysis**

An introduction to uncertainty and the use of probability and statistics in analysing this uncertainty in a business context. Topics include graphical and numerical descriptive statistics; probability concepts and rules; expectation; discrete and continuous probability distributions; sampling distributions; and, an introduction to statistical inference. (Antirequisites: Grade 12 "U" Data Management; or any equivalent introductory Statistics course.)

**73-102. Business Data Analysis**

Statistical inference in a business environment. Topics include one population inferences, two population inferences, analysis of variance, Chi-Square tests, linear regression and correlation. (Prerequisite: 73-101 or Grade 12 "U" Data Management. Antirequisites: 73-205 or any equivalent statistics course.)

**73-213. Introduction to Management Information Systems**

This course provides an overview of Management Information Systems (MIS). Topics include: various types of MIS such as Information Reporting Systems, Decision Support Systems, and Office Automation Systems; introduction to hardware and software technology; personal, functional and enterprise information systems; and the value added to an organization by MIS. (Prerequisite: 75-100, 60-104 or consent of the instructor.)

**73-220. Quantitative Decision Models I**

An introduction to the use of quantitative approaches to decision making. Topics include linear programming (model formulation and applications, computer solution, sensitivity analysis, and interpretation), transportation model, project management; PERT/CPM, inventory control. (Prerequisite: 75-100, 73-102 or 73-105 and 62-194.)

**73-305. Statistical Quality Design and Control**

The course discusses some of the important statistical concepts and methods for quality design and improvement. Topics include: statistical process control, development and interpretation of different kinds of control charts for variable and attribute data, designs of experiment for product/process improvement. A software package may be required to simulate the operation of an actual process, and to illustrate the methodology. (Prerequisites: 73-102 or 73-205.)

**73-311. Introduction to Data Base Management**

A study of the planning and design of data base systems in a business organization. Topics include: data concepts and modelling, data base planning, data structure and storage techniques, and data base design. A micro-computer-based data base software package will be used for regular assignments and team projects. (Prerequisite: 73-213.)

**73-320. Quantitative Decision Models II**

An introduction to the use of quantitative approaches to decision making under uncertainty. Topics include: inventory management under probabilistic demand, waiting line models or queues, computer simulation, decision analysis, multi-criteria decision making. (Prerequisite: 73-220.)

**73-331. Operations Management I**

An introduction to the problems and techniques encountered in the production of goods and services. Topics include: forecasting, capacity planning, facility location and layout, aggregate planning, inventories and materials requirement planning. (Prerequisite: 73-220.)

**73-425. Special Topics in Management Science**

(May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

**73-429. Independent Study**

(May be taken for credit twice if content is different.) (Prerequisite: consent of the instructor.)

**73-431. Operations Management II**

The course explores other substantive and analytical issues in the planning and control of operations and manufacturing. Topics include: operations scheduling, quality and assurance, reliability and maintainability; and recent advances in manufacturing technologies and control. Team or individual presentations on selected topics may be required. (Prerequisite: 73-331.)

**MARKETING**

**74-231. Principles of Marketing**

An introduction to the principles, concepts and techniques of marketing. A significant objective of the course is the development of a basic understanding of the marketing process and its role in the organization, in the economy, and in global markets. (Prerequisite: 75-100.)

**74-232. Marketing Problems-Applications and Decisions**

The application of concepts and techniques in marketing through the use of cases and simulation gaming. The course will apply the concepts learned in 74-231, Principles of Marketing, in a managerial, decision-making format. (Prerequisite: 74-231 and Corequisite: 72-270.)

**74-332. Research Methods in Marketing**

The use of analytical methods to improve the efficiency of the marketing operations of companies and other organizations with emphasis on the development of a broad understanding of the uses and methods of research as applied to marketing. (Prerequisite: 73-102 or 73-105.)

**74-334. Consumer Behaviour**

An analysis of consumer and buyer behaviour and their implications for marketing decisions. The course examines theories of, and research in, consumer behaviour through cases and group projects. (Prerequisite: 74-232.)

**74-335. Marketing Channels**

The subject of marketing channels deals with the flow of ownership of a product from manufacturer to final user. Major topics include principles of marketing channel design, the types and roles of wholesalers and retailers, the impact of the other elements of the marketing mix, and issues in marketing channel management, such as power, conflict and legal concerns. (Prerequisite: 74-232.)

**74-337. Quantitative Analysis for Marketing Decisions**

The application of quantitative techniques to marketing problems and strategy. (Prerequisite: 73-102 or 73-105.)

**74-338. Retail Marketing Management**

An introduction to retailing concepts and the examination of various managerial issues related to retailing, including retail marketing strategy formulation, customer care and service, product assortments, retailer-supplier relations, pricing, inventory control, and location and layout decisions. (Prerequisite: 74-232.)

**74-339. Logistics and Supply Chain Management**

The planning, implementing and controlling of logistics activities associated with the flow of goods and related information, from the raw materials stage through to the end user. This course discusses the fundamentals of business logistics and supply chain management, including transportation, order management, warehousing, international logistics, reverse distribution, logistics information technology, and the impacts of product, price and promotion. (Prerequisite: 74-232.)

**74-431. Independent Study**

This course is of varying content dealing with topical issues in marketing. The course might focus on a specific functional area or a particular environment for the application of marketing concepts. Administration of the course will vary as appropriate with its content and might involve a literary survey, research project, experiential exercise, or other format. (May be repeated for credit if content is different.) (Prerequisites: 74-232 and consent of the instructor.)



#### **74-432. Product Planning for Marketing Management**

An overall view of the product planning function (including the planning of services) in a company or institution, including the development and appraisal of product ideas, optimal organization of the planning process, product audits, financial and legal aspects of product planning, and intra-organizational factors. (Prerequisite: 74-232 or consent of the instructor.)

#### **74-433. Internet Marketing**

This course explores the impact of the Internet on traditional marketing strategy and actions. Specific emphasis will be placed on customer segmentation/targeting, consumer behaviour and issues of on-line/off-line consistency. Students will be expected to develop an understanding of web site design and basic html coding. Classes consist of lectures, lab work, case analysis, and student discussions/presentations. The course requires both qualitative and quantitative treatment of issues. (Prerequisites 74-232, 60-104.)

#### **74-435. International Marketing**

This course is concerned with the problems and opportunities of marketing in foreign environments. It will focus on the cultural, economic, and geographical problems encountered in managing the marketing function from a Canadian manager's perspective. (Prerequisite: 74-232.)

#### **74-436. Advertising Management**

A study of how to approach the management of advertising in business enterprises. The focus will be on making advertising decisions (e.g., setting advertising objectives, creating advertising campaigns, developing media strategies, and measuring advertising results) in relation to the overall marketing strategy of the business or non-business enterprise. (Prerequisite: 74-232 or consent of the instructor.)

#### **74-437. Sales Management**

The study of the personal selling area, including an examination of the role and responsibilities of the salesperson, the sales management, and sales management functions. (Prerequisite: 74-232.)

#### **74-439. Marketing Strategy and Planning**

An advanced course in the management of the marketing function. The course will include an appraisal of the key issues in the management of the marketing function with major emphasis on the development, formulation, implementation, and control of the firm's marketing plan. Emphasis will also be placed on current key issues in the marketing area and global marketing considerations. (Prerequisites: 74-332 and 74-334, or consent of the instructor.)

### ***BUSINESS STRATEGY AND ENTREPRENEURSHIP***

#### **75-100. Introduction to Business**

This course develops an understanding of organizations in their environments. The elements of strategic management are introduced as the guiding means for managing three broad sets of issues simultaneously. They are the creation, identification, and realization of business opportunities; the generation of organizational goals, processes and structures, given the demands of stakeholders; and the development and contributions of organizational resources and functions. The course introduces the case method as a primary means of developing analytical and decision-making skills, as well as insights into implementation. The case method is augmented with other course delivery techniques in an effort to foster a holistic approach to organizations and organizing.

#### **75-290. Fundamentals of Entrepreneurship**

This is a survey course designed to introduce students from all faculties to entrepreneurship as a career option. The entrepreneurial process will be explored through a mix of lectures and case studies. Topics include the identification of profitable business ideas, assessment of business opportunities, entry strategies, marshalling resources, and the start-up process. (Prerequisite: Semester 3 standing or above.)

#### **75-391. New Venture Formation**

Designed for students who choose entrepreneurship as a career option, this course is an in-depth study of the process of drawing the blueprints for a new enterprise including: developing business ideas, developing business concepts, conducting feasibility studies, choosing a legal form or business, writing business plans, identifying and approaching sources of money, raising funds, and putting together a package of resources to start an enterprise. (Prerequisites: 71-140, 72-271, 74-231.)

#### **75-393. International Business**

This course is designed to provide students with the tools to think globally and manage internationally. This survey course covers a wide range of topics including, the global trade and investment environment, the international firm's cultural, political, and competitive environment, and the management and operations of international firms. The focus throughout the course is on the changes that occur when a firm moves from a domestic focus to a global one. (Prerequisites: 71-140, 72-271, 74-231.)

#### **75-397. The Law and Business Administration**

A survey of the law pertaining to business administration. Topics include: the legal approach to business problems, contracts, sale of goods, bills of exchange, agency, bailment, real property, partnerships, corporations, and bankruptcy. (Prerequisite: Semester 5 standing or above or permission of instructor.)

#### **75-401. Co-op Work Term I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a

minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**75-402. Co-op Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**75-403. Co-op Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**75-490. Strategy in the Global Business Environment**

This course builds on the basic knowledge provided in 75-393 to provide students with an in-depth appreciation of global management issues. The course focuses on developing and implementing global strategies. This includes a detailed analysis of the international environment and the forces that determine global effectiveness, as well as consideration of different forms of entry available to firms and the specific factors that must be addressed to implement global strategies successfully. (Prerequisite: 75-393.)

**75-491. Special Topics in Strategic Management**

This is an advanced course designed to examine, in-depth, the strategic issues facing business decision makers. Coverage will vary to reflect the contemporary issues and concerns of today's executives. (May be taken for credit twice if content is different.) (Prerequisite: Semester 7 or Semester 8 standing.)

**75-493. Field Study in Strategic Management and Entrepreneurship**

In this course, teams of students study an actual firm focusing on identifying the strategic issues facing the firm, the needed strategic plans for addressing them, and the implementation of such plans. Students pursuing the entrepreneurial option can also take this course to finalize the prototype for the business they intend to start. (Prerequisite: Semester 7 or Semester 8 standing.)

**75-494. Directed Study in Strategic Management and Entrepreneurship**

Under faculty supervision, students undertake an individualized program of independent study to pursue, in great depth, a topic in strategic management or entrepreneurship where they can apply the knowledge gained in prior courses. (May be taken for credit twice if content is different.) (Prerequisite: consent of instructor.)

**75-498. Strategic Management**

Taught from the perspective of the CEO, this is the capstone course of the B.Comm. Program. It is designed to integrate the knowledge gained in all business courses and focus such knowledge on the central task of managing the firm in its entirety. (Prerequisites: 75-100, Semester 7 or Semester 8 standing in the B.Comm. program or B.Comm. for University Graduates program and all other required Business courses.)

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## COMMUNICATION STUDIES: COURSES

Communication Studies 40-101 is required of all majors and is to be taken in the first year. For non-majors, this course is recommended prior to taking even those upper-level Communications Studies courses for which no specific prerequisites are listed. This introductory study of the media and its operations, within a rich context of history, theory, and cultural policy, is designed to enhance media literacy.

Students may register in upper-level courses if specific prerequisites are met, or with consent of the instructor or program advisor.

Not all courses listed will necessarily be offered each year. All courses are three hours per week (3.00 credit hours) unless otherwise indicated.

### 40-101. Introduction to Communication Studies

An overview of the major themes, issues and schools of thought informing the field of communication studies. Topics include: the political, economic, historical, and cultural contexts of communication; policy issues and concerns; communication technology; media representation; the role of media in the social construction of reality; and the broad interaction between media and society. (2 lecture, 1 tutorial hour per week.)

### 40-110. Introduction to Production Planning and Design

An introduction to the process of production planning and design, including how ideas are created, developed, expressed, proposed, and acted upon in various media. Through lectures, laboratory activities, and class assignments students will gain skills and knowledge in the techniques of outlines, treatments, storyboards, budgets, and resource management. (Restricted to first and second year students in Communication Studies or combined four-year Honours programs with Communications Studies.) (2 lecture, 2 laboratory hours a week.)

### 40-111. Introduction to Production Practice

Practical implementation of concepts and skills learned in 40-110. Through lectures and laboratory activities, students will further develop script writing skills, visual storytelling styles and aesthetics, and produce a basic media production. Along with 40-110, this course is required for students pursuing advanced courses in film and video and is recommended for students planning to take sound/audio courses. (Prerequisite: 40-110; limited to first and second year Communication Studies majors and majors in Combined Communication Studies Honours programs.) (2 lecture, 2 laboratory hours a week.)

### 40-200. Foundations of Communications History

Relations between evolving media of communication and changing political-economic and socio-cultural structures and practices, from a social justice perspective. Addresses the various media (oral communication, writing, print, electronic media) of various societies (ancient Greek, Egyptian, Sumerian, modern industrial and postmodern societies). (Prerequisite 40-101.) (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

### 40-202. Foundations of Cultural Studies

An introduction to contemporary theories and methods of cultural studies which focuses on the study of society's communicative practices, artistic productions, beliefs, and institutions. This approach incorporates a variety of theoretical and methodological perspectives, including semiotics, social constructionism, structuralism, neo-Marxism, psychoanalysis, postmodernism, ritual analysis, and ethnography. Particular attention is paid to the ways in which race, class, and gender are constituted in a variety of cultural texts. (Prerequisite: 40-101.) (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

### 40-205. Introductory Photography

This introductory course in chemical and digital photographic processes provides an opportunity for students to explore techniques and concepts within the medium of photography. Students will learn the basic technical skills of operating cameras, processing film, making black and white prints, and digital imaging. Through a series of assigned projects discussions and readings, students will be exposed to a variety of concerns specific to photography. (Prerequisite: 40-101 and 40-110 and Communication Studies Major; students must have a 35mm adjustable camera to complete this course.) (Cross-listed as Visual Arts 27-253.)

### 40-211. The Film Making Process I

Theoretical and practical examination of the technical, communicative and aesthetic considerations in black-and-white 16mm film making. Topics include optics and exposure, cinematography, picture editing, and double-system, non-synchronous sound recording, and editing. (Credit for this course will be allocated only after successful completion of 40-212.) (Prerequisites: 40-101, and 40-111.) (2 lecture, 2 laboratory hours a week.)

### 40-212. The Film Making Process II

A continuation of 40-211 with increased emphasis on practical exercises and an examination of aesthetic and communicative factors. Included will be a study of the basic approaches to film and their implications for the film making process. (Prerequisite: 40-211.) (Credit for this course will be allocated only after successful completion of 40-211.) (2 lecture, 2 laboratory hours a week.)

### 40-214. Sound in Media

The course deals with three major topic areas: writing for the ear, voice improvement, and sound production technology. Students will write and deliver short messages, learn how to operate radio equipment, and produce audio messages. Other topics covered include audiovisual synchronization, MIDI, the digitizing process, and copyrights. (Prerequisites: 40-101 and

40-110.) (2 lecture, 2 laboratory hours a week.)

#### **40-216. Video Production I**

This project-based course, integrating theory and practice, introduces students to studio and location work with emphasis on the knowledge and skill essential to produce a program. A variety of production techniques are presented appropriate for fiction, non-fiction, education, and training programs. (Credit for this course will be allocated only after successful completion of 40-217.) (Prerequisites: 40-101, and 40-111.) (2 lecture, 4 laboratory hours a week.)

#### **40-217. Video Production II**

Post-production editing and the creative integration of sound and image are explored. Emphasis is on the constraints imposed and the enhancements made possible by technology and the consequences for the effectiveness of the program. (Credit for this course will be allocated only after successful completion of 40-216.) (Prerequisite: 40-216.) (2 lecture, 4 laboratory hours a week.)

#### **40-225. Media Literacy**

An introduction to important concepts concerning news media and popular culture. The intent is to help students to develop the skills, knowledge, and background necessary to interpret how the media contribute to the social construction of reality. (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

#### **40-234. Foundations of Research Methods in Communication Studies**

An introductory overview of research approaches, methods, and designs in communication studies. Students will learn about the theoretical grounding of quantitative, qualitative, and interpretive methods, and practice various methods to explore communication issues. (Prerequisites: 40-101 or Labour Studies Majors must have semester 3 standing) (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

#### **40-240. Cinema History I (Pre-War)**

The course charts the early history of the cinema from its inception to World War II: film shorts at the turn of the century, the silent film era, the introduction of sound, and the decline of the studio system. Films are examined as technical, industrial, commercial, artistic, and, most importantly, as historical artifacts. Industry, audience, and the development of cinematic language are viewed within an international framework and their local cultural context.

#### **40-241. Cinema History II (Post-War)**

The course examines films from the post-War period to the present: the heyday of the classical Hollywood narrative and challenges to its dominance from European neo-realism and the avant-garde film movement are considered. Films are viewed as influenced by and reflective of social upheaval of the sixties, as well as their consolidation within distinct but mutually influencing categories of mainstream and alternative cinema. An important consideration is how films can either paper over or expose social fractures along the lines of gender, race, sexuality, and nationalism.

#### **40-243. Media Aesthetics**

The course provides a basic set of principles and tools to understand the formal qualities of visual signification. Students learn aesthetic and technical terms, rules, conventions, and social assumptions used to construct meaning through sound, images, or graphics in stills, film, and television. The course offers a grounding useful for both the producers and consumers of still and moving images. (Prerequisite: 40-101 or 40-110.)

#### **40-245. Communication and Cultural Policy in Canada**

The history and development of cultural policy and cultural production in Canada. Topics include: the role of the State in cultural production; national culture, citizenship, identity and multiculturalism; the structure, performance and regulation of the culture industries; globalization and the new technologies. (Prerequisite: 40-101.)

#### **40-250. Basic Processes in Media Writing**

The practice of fundamental media writing and organizational skills, research methods and information-gathering techniques for the preparation of copy and/or scripts for print, broadcast, film and/or new media. Students will use microcomputers in this course but previous typing experience is not necessary. (Prerequisite: 40-101) (1 lecture hour and 2 lab hours a week.)

#### **40-257. Foundations of Political Economy of Communications**

Communication, democracy, and the public interest; political economy of mass media; frameworks and models for media and telecommunications policy and regulation; international trade and national culture; patterns of media ownership; audiences and marketing systems. (Prerequisite: 40-101.) (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

#### **40-262. Intercultural Communication**

Intercultural communication is explored through attention to issues such as race, ethnicity, nationality, language, non-verbal codes, class, gender, sexual orientation, and religion. Students explore local and global perspectives on peace and conflict, social justice, and intercultural ethics, employing both critical and interpretive approaches.

#### **40-275. Foundations of Communications Theory**

Introduces theoretical approaches to communication forms, processes and contexts, and explores a variety of underlying philosophical perspectives, assumptions and paradigms of inquiry in communication theory. (Prerequisite: 40-101.) (3 lecture hours or 2 lecture hours and 1 tutorial hour a week.)

#### **40-302. Popular Culture**

Examines the relationship between popular culture and questions of economics and social and cultural politics, through an exploration of struggles over knowledge, power and authority manifest in popular cultural artifacts and processes. Intended to provide students with tools for critical evaluation of contemporary popular culture, including the constitution of social

ideologies, values and representations through cultural artifacts. (Prerequisite: 40-202.)

#### **40-303. Studies in Popular Music Culture**

This course explores the culture, production history, economics, and critical approaches to popular music - for instance, the popular music springing from the Windsor-Detroit region that includes the influences of Motown, garage rock, funk, folk, soul, R&B, gospel, rap, and electronic music. The course is intended to provide students with tools to contextualize contemporary music historically and critically and includes exploration of issues such as identity, counterculture, popular culture in a local/global context, social values, and representations. (Pre-requisite: 40-202 and semester 4 standing, or consent of instructor.)

#### **40-310. Digital Media for Advanced Production**

An Introduction to historical, aesthetic, theoretical and practical issues in digital media production. Class will emphasize hands-on practice with digital graphics and editing through directed exercises. (Prerequisites: admission to advanced production courses or permission of instructor.) (1 lecture hour, 2 laboratory hours a week.)

#### **40-312. Intermediate Cinematography and Digital Editing I**

This course progresses from the basic principles of photography and an understanding of light to a broader foundation of knowledge in cinematography. The emphasis is on practical and supporting theoretical elements, exercises and clip screenings in support of digital and analog photography and camera and lighting equipment in support of digital film and video. (Credit for this course will be allocated only after successful completion of 40-313.) (2 lecture, 3 laboratory hours a week.) (Prerequisites: 40-211 and 40-212 or 40-216 and 40-217; or consent of the instructor.)

#### **40-313. Intermediate Cinematography and Digital Editing II**

A continuation of 40-312, this course focuses simultaneously on developing technical ability and creative awareness through hands on experiences. Students will acquire a working understanding of AVID DV Xpress Pro and will work through the process of digitizing rushes and editing material to finish a project in digital video resolution. Examples from film will illustrate the value of editing and sound in the production process. (Credit for this course will be allocated only after successful completion of 40-312.) (Prerequisites: 40-312.) (2 lecture, 3 laboratory hours per week.)

#### **40-315. Radio Broadcasting**

An examination of current and future trends in radio broadcasting, with the focus on the social implications. Lab exercises will deal with the production of radio programs in various formats. (Prerequisite: 40-214.) (2 lecture, 2 laboratory hours a week.)

#### **40-321. Organizational Cultures and Communication**

A detailed examination of the relationship of communication and culture in organizational settings. Several theoretical approaches are used, including social constructionist, semiotic, interactionist, and interpretive. Several aspects of organizational communication and culture are considered, including: verbal and nonverbal behaviour; entering and adjusting to organizational cultures; creating, maintaining, and changing organizational cultures; sub-cultures and super-cultures; foreign organizational cultures; the influences of technology and growth on organizational cultures; and the relationship of organizational theory to organizational culture. (Prerequisite: 40-101 and semester 5 standing.)

#### **40-322. Labour, Workplace and Communication**

The course involves a critical exploration of the relationships between labour and information technology from a communication perspective. Both political economy and cultural studies approaches are used to analyze the everyday experiences of individuals in both their paid and unpaid labour. Issues examined may include Scientific Management and Fordism/Post-Fordism, globalization, electronic surveillance, the natural environment, and the intersection(s) of race/ethnicity, class, and gender. (Prerequisites: 40-202 or 40-257. Labour studies majors must have at least semester 4 standing)

#### **40-323. Public Relations and Promotional Culture**

This course will take a critical look at an emerging complex of media industries whose activities can best be described as promotional culture. Going beyond traditional advertising and public relations approaches, this course will illustrate how this industry promotes further consumption of media, promotes celebrity in entertainment, sports, politics and elsewhere, and promotes ideas. The course will expose arrays of promotional techniques of which many consumers are unaware. (Prerequisites: 40-202 or 40-225 or 40-257)

#### **40-325. The Sociology of News Media**

This course explores the role played by the mass media in the social construction of reality. Concepts that may be given particular emphasis include: legitimation, hegemony, power, propaganda, objectivity, stereotyping, and alternatives. (Prerequisite: 40-225.)

#### **40-328. Communication, Globalization and Social Justice**

An intermediate course which examines selected historical and/or contemporary examples of mainstream and alternative media depictions of U.S. foreign policy and corporate globalization. Beginning with Native American genocide and Manifest Destiny, potential topics range around the globe: for example from Mexico and the Philippines in the 19th Century, to Vietnam, the Persian Gulf, Caribbean, and Central and South America. May also involve the history and role of the IMF, World Bank, and WTO. (Prerequisites: 40-225.)

#### **40-333. Mass Media and Audience Research**

An overview of current practices and issues in mass audience research, including the measurement of audiences by rating services, audience response assessments, and research regarding how audiences use the media.

#### **40-337. Qualitative Methods in Communication Research**

An examination of interpretive, cultural, and historical methodologies utilized in contemporary communication research. A variety of possible research strategies will be explored, such as: cultural studies, interpretive interactionism, ethnography, narrative analysis, interpretive biography, interview techniques, and discourse analysis. (Prerequisite: 40-202 or 40-234.)

**40-344. Cinematic Discourses**

Using film or critical theory, historical or cultural studies, cinematic discourses are approached with a shifting focus on a range of topics, such as genres, the stars, film movements, or national cinemas. For example, the course may focus on a genre (such as melodrama or comedy), or the star system's influence at a particular historical moment (e.g., the Depression), or offer an overview of a specific national cinema. (May be repeated for credit more than once with consent of the Department Head.) (Prerequisite: 40-202 or 40-240 or 40-241.) (2 lecture, 2 screening hours a week.)

**40-360. Public Opinion**

The formation of public opinion and its role in democratic society. Theories of attitude and opinion formation and persuasion. Study of propaganda. Current issues in public opinion and the "manufacture of consent". (Prerequisite: at least Semester 5 standing.)

**40-362. Gender and Communication**

Gender, culture, and communication, with an emphasis on the socio-symbolic construction and re-construction of gender, sex, and sexuality. Themes of gendered identity, feminist and masculinist social movements, stereotyping, communication dynamics, media representations of gender, gender and social justice. (Prerequisite: 40-262 or permission of the instructor.)

**40-367. Communication, Environment, and Development**

Environmental stresses and Third World development problems from a communication perspective. The roles of information and technology. Information theory, systems theory, and concepts of cultural ecology. Media coverage, advertising, and the ecological crisis. The rhetoric of environmentalism and growth. (Prerequisites: 40-257.)

**40-370. Alternative Media**

A critical examination of the structure, operation, and function of the mass media in contemporary society from a number of major ideological perspectives, with an emphasis on the assessment of possible alternatives. Innovative, small-scale communication approaches will be examined as one such alternative, with particular attention being paid to the media's role in, and potential for, encouraging or impeding social action. (Prerequisite: 40-225.)

**40-374. Information Technology and Social Change**

Theories of the "Information Society": economics of information; management of knowledge in organizations; surveillance and identity in digital environments; Canadian information policy. (Prerequisite: 40-257.)

**40-381. Advertising in Social Context**

Contextualizes the world of advertising within consumer culture and mass media. The course draws upon approaches from Critical Theory, Marxism, feminism, semiotics, critical multiculturalism, and other perspectives. Topics include: the historical and social roots of consumerism; the evolution of the 'branded' society, issues of representation and meaning; the ideological and economic functions of advertising. (Prerequisites: 40-101 and second-year standing.)

**40-398. Communication Practicum I**

Application of communication skills and knowledge in work experience situations approved by the Co-ordinator of Communication Practica. Admission to the course is by consent and is available only to four-year Honours students. The course is graded by a faculty advisor on the basis of a written report plus other references. (Prerequisite: Third-year standing and consent of a program advisor in Communication Studies.) (6-8 weeks.)

**40-399. Communication Practicum II**

(Same description as 40-398.)

**40-402. Advanced Cultural Studies**

An advanced study of communication and culture, including ethnographies, language, semiotics, narrative, ideological analysis, psychoanalysis, structuralism, social constructionism, and postmodernism. (Prerequisites: 40-202, and 40-302 or 40-337.)

**40-411. Advanced Film Making I**

This course emphasizes multi-track sound editing, colour cinematography, and other technical and aesthetic issues in the creation of the motion picture. (Prerequisites: 40-212 and admission to advanced production courses or permission of the instructor; Corequisite: 40-310 must be taken prior to or concurrently with this course.) (Credit for this course will be allocated only after successful completion of 40-412.) (2 lecture hours and 2 lab hours a week.)

**40-412. Advanced Film Making II**

This course emphasizes the skill and knowledge necessary to produce a complete colour film with multi-track synchronous soundtrack, including the conceptualization and budgeting of the film as well as the techniques of digital editing. (Prerequisites: 40-411.) (Credit for this course will be allocated only after the successful completion of 40-411.) (2 lecture hours and 2 lab hours a week.)

**40-414. Sound Design**

Students will learn sound design, which is the process of creating the overall sonic character of a production in music, radio, film, video, and multi media. Major course themes include: sound mixing and editing using computer-based non-linear editing systems; the elements of sound structure and their effects on perception; functions of sound in speech, sound effects, music, silence; the relation between visual media and sound. (Prerequisite: 40-214 and at least semester 5 standing.)

**40-416. Advanced Video Production I**

An exploration of advanced work in digital video technology and aesthetic principles in the areas of pre production (design, writing, production management, budgeting); production (digital camera, lighting, sound); post-production (non-linear editing) and distribution/exhibition. Students will apply theory based criteria in the development, production and analysis of projects. (Prerequisites: 40-217 and admission to advanced production courses or permission of the instructor; Corequisite: 40-310 must be taken prior to or concurrently with this course.) (Credit for this course will be allocated only after successful completion of 40-417.)

**40-417. Advanced Video Production II**

A continuation of digital media technology, aesthetics and production. This course focuses on specific genres, production challenges, distribution, professional development, multimedia and hyper media production planning and writing from critical production perspectives which include developing a sense of the ethical and social role in creating media forms for dissemination to audiences.(Prerequisites: 40-416.) (Credit for this course will be allocated only after the successful completion of 40-416.)

**40-425. Advanced Sociology of News Media**

An advanced analysis of the role played by mass media in the social construction of reality. (Prerequisite: 40-325.)

**40-426. Advanced Message Design**

Students will learn how to design communication units for information, training, and teaching situations, using a systematic procedure from instructional technology. Students will apply theories from communication, persuasion, and learning to determine needs, design a communication strategy, select appropriate media, and evaluate the effort. (Prerequisite: 40-272.) (3 lecture hours or 1 lecture hour and 2 lab hours a week.)

**40-430. Communication and Ethics**

Comparative approaches to communication ethics; communication and normative integration; communication ethics and communication law; media ethics and self-regulation; contemporary ethical problems and issues in media and communication. (Prerequisite: at least Semester 7 standing.)

**40-434. Evaluation Research in Communication Studies**

An introduction to the theory, methodology, and practice of evaluation in the communication field, providing an overview of various approaches and methods of evaluation, as well as practical examples of the design of evaluation projects. (Prerequisite: At least Semester 7 standing.)

**40-440. Documentary Culture**

This course examines the role of documentary media in the construction of history, reality, ideas, experiences and everyday life. Topics may include journalistic forms, film, archival and collecting practices, photography and reality television. (Prerequisite: 40-200 or 40-202 or 40-374 and semester 6 standing)

**40-441. Documentary Film and Video I**

An introduction to the history, theory, and practice of documentary film. The course provides an overview of the history of documentary with attention to artistic, technological, economic, and political influences and offers students the opportunity to put theoretical study into practice. (Credit for this course will be allocated only after successful completion of 40-442.) (Prerequisites: Third-year standing and one or more of the following: 40-110, 40-240, 40-241.) (4 lecture hours a week.)

**40-442. Documentary Film and Video II**

A survey of contemporary documentary practice with special attention to recent key themes and issues in the field. Included will be an examination of the role of technology, financing, distribution, and exhibition arrangements, and cultural and ideological factors in the introduction and acceptance of various documentary techniques, approaches and styles. (Credit for this course will be allocated only after successful completion of 40-441.) (Prerequisite: 40-441.) (4 lecture hours a week.)

**40-443. Film Theory and Criticism**

An examination of the changing theoretical and critical approaches to the film, including issues in the production and reception of film, such as realism, adaptation, convention, signification, and culture. (Prerequisites: one of 40-240, 40-241, 40-243, or 40-344.)

**40-457. International Communication Policy and Systems**

Globalization and convergence of media technologies and regulatory regimes; the implications of globalization and convergence for dependency, diversity, identity and sovereignty; and the implications of new communication technologies for the functioning of major political and economic institutions. Seminar format. (Prerequisite: 40-257.)

**40-462. Communication Perspectives and Aboriginal People, Race and Ethnicity**

Explores theoretical and practical Communication issues of race and ethnicity. Linking these to the practice of social justice. Topics include: historical and critical implications of identity politics, media (mis-) representation, cultural policy, First Nations, multicultural and multiracial media production. (Prerequisites: Two of the following: 40-202, 40-225, 40-245, 40-262, 40-302, 40-362, and third year standing.) (Sociology majors: 48-241 or 48-333 and two additional courses in Communication Studies.)

**40-475. Advanced Communication Theory**

An examination of contemporary communication theories, such as: critical, cultural, functional, structural, and postmodern approaches. Special attention will be devoted to critically evaluating the underlying assumptions and frameworks of various theories. (Prerequisite: 40-275 and at least Semester 7 standing.)

**40-476. Canadian Communication Thought**

Commonalities and differences in the communication thought of first- and second-generation Canadian theorists: Harold Innis, John Grierson, Dallas Smythe, Graham Spry, C.B. Macpherson, George Grant, Irene Spry, Gertrude Robinson, Northrup Frye, Marshall McLuhan. A study of dialectics, holism, political economy, ontology, epistemology, and cultural change in the context of media and technology. (Prerequisite: at least Semester 7 standing.)

**40-489. Selected Topics in Design and Applications**

An advanced exploration of selected topics related to Design and Applications processes in print, audio and/or visual media. The course may be offered as a regular class. For tutorials (available only to four-year Honours students), project proposals must be approved by the program advisor in Communications Studies prior to registration. (May be taken for credit more than once.) (Prerequisite: successful completion of the appropriate upper-level Design and Applications courses.)

**40-490. Selected Topics in Communication Studies**

An advanced study of selected topics in Communication Studies. Topics and prerequisites may vary depending on the focus of the course. (May be taken more than once if content changes.) (Prerequisites will vary; generally will require at least Semester 7 standing.)

**40-495. Directed Reading**

Intended for students with special interest in areas not covered in sufficient depth by other courses. (To be taken only with permission of instructor and a program advisor in Communication Studies.)

**40-498. Communication Practicum III**

Application of communication skills and knowledge in work experience situations approved by the Co-ordinator of Communication Practica. Admission to the course is by consent and is available only to four-year Honours students. The course is graded by a faculty advisor on the basis of a written report plus other references. (To be undertaken after the successful completion of relevant 300-level courses.) (Prerequisite: at least Semester 7 standing and consent of a program advisor in Communication Studies.) (6-8 weeks.)

**40-499. Communication Practicum IV**

(Same description as 40-498.)



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## CHEMISTRY AND BIOCHEMISTRY: COURSES

All courses listed will not necessarily be offered each year.

The prerequisite of all 200-level courses, unless otherwise indicated, will be both 59-140 and 59-141.

The prerequisite for all 400-level courses will be the consent of the instructor, except as noted.

### 59-110. Topics In General Chemistry

An introduction to selected topics in modern chemistry for engineering: atomic and molecular structure, properties of matter and the periodic table, macroscopic chemical systems, stoichiometry, properties of the equilibrium state and applications to thermochemistry and electrochemistry. (Prerequisite: Grade 12"U" Chemistry or equivalent.) (3 lecture, 3 laboratory hours a week.)

### 59-140. General Chemistry I

Introductory concepts in chemistry, including reactions of atoms, ions, and molecules, solution stoichiometry, thermochemistry, electronic structure of atoms, basic chemical bonding and molecular geometry, periodic properties of the elements, and the theory of gases. (Prerequisite: Grade 12"U" Chemistry or equivalent, or consent of the instructor.) (3 lecture, 3 laboratory/tutorial hours a week.)

### 59-141. General Chemistry II

A continuation of 59-140 covering topics such as chemical kinetics, general equilibrium theory, acid-base theory, chemical thermodynamics, and introduction to organic chemistry. (Prerequisite: 59-140.) (3 lecture, 3 laboratory/tutorial hours a week.)

### 59-191. Organic and Biological Chemistry for Health Sciences

A course of particular interest to students of nursing and other health science areas. The subject matter includes a survey of organic functional groups, the organic chemistry of biomolecules, and a survey of the major metabolic pathways. (Prerequisite: Grade 12"U" Chemistry or equivalent.) (Antirequisites: 59-141, 59-230, and 59-232.) (2 lecture hours, 1 tutorial hour a week.)

### 59-201. Chemistry in the Marketplace

The basic notions of chemistry will be introduced and discussed in a qualitative manner with a view to understanding chemistry and materials encountered in everyday life. The course will provide an appreciation for the ubiquitous nature and importance of chemicals and chemical processes. Discussion will include a variety of topics such as chemistry in the home, plastics, drugs, cosmetics, biotechnology, chemistry and computer technology, nuclear power and pollution. The course is intended for students with no formal background in chemistry. (Not open to first-year students; may be taken by B.Sc. students for credit, but it does not count as Chemistry and Biochemistry course or other science option towards the fulfillment of the requirements for the B.Sc. degree. Students in Chemistry, Chemistry & Physics, Biochemistry and Biochemistry & Biotechnology may not take this course for credit.) (2 lecture hours a week.)

### 59-230. Introductory Organic Chemistry

Introduction to organic chemistry, with emphasis on structure, stereochemistry, and reactions of aliphatic and alicyclic compounds and their functionalized derivatives. (Prerequisites: 59-140 and 59-141, or 59-110.) (Antirequisite: 59-232.) (3 lecture, 3 laboratory hours a week.)

### 59-232. Introductory Organic Chemistry

The same as 59-230 but without the laboratory. (Prerequisites: 59-140 and 59-141.) (Antirequisite: 59-230.) (3 lecture hours a week.) (Not available for credit to students majoring in Chemistry, Biochemistry, or Biological Sciences.)

### 59-235. Introductory Organic Chemistry II

A continuation of 59-230. Topics include the chemistry of nitrogen-containing compounds, aromatic chemistry and an introduction to spectroscopic methods. (Prerequisite: 59-230.) (2 lecture hours a week.)

### 59-240. Introductory Physical Chemistry I

Properties of ideal and real gases, first and second laws of thermodynamics, physical transformations of substances, mixtures of substances and phase diagrams are applied to changes of state, chemical reactions and spontaneous processes. (Prerequisites: 59-141, 62-140, and 62-141.) (3 lecture, 3 lab or 1.5 tutorial hours in alternate weeks.)

### 59-241. Introductory Physical Chemistry II

Physical and chemical equilibrium, equilibrium electrochemistry, molecular motion and collisions, chemical reaction rates, kinetics and introduction to statistical mechanics. (Prerequisite: 59-240, 62-140 and 62-141.) (3 lecture, 3 laboratory hours per week.)

### 59-250. Introductory Inorganic Chemistry I

Introduction to inorganic chemistry. Topics include: the origin of trends in the periodic table, molecular symmetry, and chemical bonding (including ionic bonding and the molecular orbital and valence bond models for covalent bonding). These approaches will be used to explain the chemistry and properties of selected classes of main group compounds. Photoelectron, NMR, and vibrational spectroscopy are introduced as complementary tools in the examination of these molecular species. (Prerequisite: 59-141.) (3 lecture hours a week, 1.5 tutorial hours a week.)

#### **59-251. Introductory Inorganic Chemistry II**

The coordination chemistry of transition metals will be discussed, with particular reference to the means of physical and spectroscopic characterization. Relevance of such compounds to bio-inorganic systems will also be discussed. (Prerequisite: 59-250.) (3 lecture, 3 laboratory hours a week.)

#### **59-261. Organic Chemistry of Biomolecules**

An extension of the principles covered in 59-230 to the structure and properties of organic molecules of biological significance (*i.e.*, proteins, nucleic acids and lipids). (Prerequisite: 59-230.) (3 lecture, 3 laboratory hours a week.)

#### **59-263. Organic Chemistry of Biomolecules**

The same as 59-261 but without the laboratory. (Prerequisite: 59-230 or 59-232 or consent of the department.) (3 lecture hours a week.) (Not available for credit to students majoring in Chemistry, Biochemistry, Biochemistry-Biotechnology, Biology-Biotechnology or Biological Sciences.) (59-263 may not be used as a pre-requisite for 59-362, 59-363, 59-365 or 59-380 nor as one of the eight additional Science courses at the 200 level or above for students majoring in General Science.)

#### **59-291. Pharmacology for Health Sciences**

A course of particular interest to students of nursing and other health science areas. The principles of pharmacokinetics and pharmacodynamics will be covered utilizing a systems approach to pharmacologic therapies in health care. (Prerequisites: 55-204, 55-205, and one of 59-191, 59-261 and 59-263.) (3 lecture hours a week, 4 tutorial hours in a semester.) (May be taken by B.Sc. students for credit, but does not count as a Biochemistry course towards the fulfillment of the requirements for the B.Sc. degree.)

#### **59-320. Analytical Chemistry**

Fundamental chemical principles and theory that are important to classical, or "wet" analytical chemistry are presented, and illustrated using practical applications. The topics covered in this course include aqueous-solution chemistry, equilibria in complex systems, electrolytes, and titrimetric methods of analysis (gravimetric, precipitation, acid-base, compleximetric and reduction-oxidation). Theory and applications of electrochemical techniques include potentiometric and amperometric titrations. (Prerequisite: 59-141 or consent of instructor.) (3 lecture hours, 3 laboratory hours a week.)

#### **59-321. Principles of Instrumental Analysis**

The fundamental principles of operation and practical application of modern analytical instrumentation are presented. Acquisition of qualitative and quantitative chemical, biochemical and bioanalytical data from these instruments and methods describes the atomic and molecular composition and structure of matter. Topics covered in this course include atomic and molecular absorption and emission (photoluminescence) spectroscopy, atomic and molecular mass spectroscopy, and separation methods such as gas and liquid chromatography and capillary electrophoresis. (Prerequisite: 59-320 or consent of instructor.) (3 lecture, 3 laboratory hours a week.)

#### **59-330. Spectroscopic Structure Identification**

Structure elucidation and the use of spectroscopic techniques in synthetic chemistry. The experimental and theoretical principles of mass spectrometry, UV/visible, infrared and nuclear magnetic resonance spectroscopy, with focus on applications of spectroscopic techniques to structure analysis. (Prerequisite: 59-235 or consent of instructor.) (3 lecture, 3 laboratory hours a week.)

#### **59-331. Intermediate Organic Chemistry**

The methods of organic synthesis and the reaction mechanisms involved. (Prerequisite: 59-235 or consent of instructor.) (3 lecture, 3 laboratory hours a week.)

#### **59-332. Spectroscopic Structure Identification**

The same as 59-330 but without the laboratory. (Prerequisite: 59-235 or consent of instructor.) (3 lecture hours a week.)

#### **59-333. Intermediate Organic Chemistry**

The same as 59-331 but without the laboratory. (Prerequisite: 59-235 or consent of instructor.) (3 lecture hours a week.)

#### **59-340. Quantum Chemistry**

Principles of quantum theory, origins of quantum mechanics, wave-particle duality, Schroedinger equation, Born interpretation of the wavefunction, the uncertainty principle, applications of quantum mechanics, atomic structure and spectra, molecular structure, molecular orbital theory, introduction to computational chemistry. (Prerequisite: 59-241.) (3 lecture, 3 laboratory hours per week.)

#### **59-341. Molecular Spectroscopy**

Symmetry elements, group theory, character tables, rotational and vibrational spectroscopy, electronic transitions, lasers, photoelectron spectroscopy, introduction to nuclear magnetic resonance, electron spin resonance. (Prerequisite: 59-340 or consent of instructor.) (3 lecture, 3 laboratory hours per week.)

#### **59-350. Organometallic Chemistry**

This course provides an introduction to the organometallic chemistry of the transition metals. (Prerequisite: 59-251 or consent of instructor.) (3 lecture, 3 laboratory hours a week.)

#### **59-351. Materials Chemistry**

Modern topics in materials science and solid state chemistry are discussed with an emphasis on properties, applications, and methods of characterization. The areas covered will include biometric materials, nanoscale engineering, liquid crystals, semiconductors, superconductors, organic metals, ferromagnetism and the ferroelectric effect, non-linear optical materials,

thermochromic solids, scanning tunneling microscopy, and atomic force microscopy. Emphasis on applications to biomaterials engineering. (Prerequisite: 59-251.) (3 lecture hours a week.)

**59-352. Organometallic Chemistry**

The same as 59-350 but without the laboratory. (Prerequisite: 59-251 and consent of instructor.) (3 lecture hours a week.)

**59-362. Metabolism I**

Catabolism and the generation of phosphate bond energy. Introduction to chemistry of life, principles of bioenergetics, glycolysis, glycogen breakdown, citric acid cycle, electron transport/oxidative phosphorylation, pentose phosphate pathway, fatty acid oxidation - ketone bodies, amino acid degradation energy metabolism. (Prerequisite: 59-261.) (3 lecture hours a week.)

**59-363. Metabolism II**

The utilization of phosphate bond energy will be illustrated by carbohydrate, fatty acid, nucleotide and lipid biosynthesis, hormonal (G-proteins) and metabolite regulation, biological membranes (structure and transport mechanisms) and contractile processes (muscle biochemistry). (Prerequisite: 59-362.) (2 lecture hours a week.)

**59-365. Protein and Nucleic Acid Chemistry**

The covalent and three dimensional structures of these macromolecules will be described in conjunction with study of the chemical and physical methods used in their purification and characterization. (Prerequisite: 59-261.) (2 lecture hours a week.)

**59-380. Biotechnology Laboratory**

This intensive laboratory course will primarily simulate the discovery and rapid characterization of genes and gene products. Laboratory experiments will include cutting edge biotechnology techniques and traditional biochemical and molecular biology methodology. For example, DNA/plasmid isolation, cloning, DNA sequencing and analysis, introduction to bioinformatics and microarray technology, characterization of cloned products, protein isolation and characterization, and determination of enzymatic catalysis and regulation will be used to study gene products on a genetic and protein level. Other topics include forensic genetics and plant biotechnology. (Prerequisites: 59-261 and 55-213, Recommended co-requisites: 59-362, 59-363, and 59-365.) (6 laboratory hours per week over two terms, 6 credit course.)

**59-410. Research**

Original laboratory research under the direction of a faculty member. Student must present three seminars discussing their research project. (1 lecture, 12 laboratory hours per week over two terms; 6 credit hours.) (Only open to students in Chemistry Honours, Chemistry and Physics Honours, Biochemistry Honours or Biochemistry & Biotechnology Honours programs; please consult the "Program Requirements" section above.)

**59-431. Special Topics in Organic Chemistry**

Topics may include polymer chemistry, natural product chemistry, advanced synthetic methodology, or design and execution of organic syntheses. (Prerequisite: 59-331 or consent of instructor.) (2 lecture hours a week.) (This course may be repeatable for credit.)

**59-435. Advanced Organic Chemistry**

Physical organic chemistry. Includes molecular orbital theory, stereochemistry, thermodynamics, and reaction mechanisms. (Prerequisite: 59-331 or consent of instructor.) (2 lecture hours a week.)

**59-440. Kinetics and Photochemistry**

Fundamentals of kinetics and photochemistry. Absorption and emission techniques. Surface photochemistry. (2 lecture hours a week.)

**59-441. Statistical Thermodynamics**

This course covers the following topics: laws of thermodynamics, heat capacities, distribution laws, partition functions, and chemical equilibria and kinetics. The subject will be further illuminated by discussions of low temperature phenomena and spectroscopy. (Prerequisite: 59-241.) (3 lecture hours a week.)

**59-445. Advanced Physical Chemistry**

Special topics in physical chemistry. (2 lecture hours a week.)

**59-450. Special Topics in Main Group Chemistry**

This course provides an introduction to the chemistry of main group elements with a particular focus on the elements of the p-block. The material will highlight the similarities and differences observed between organic molecules and those from the rest of the periodic table with respect to their structural features, bonding and reactivity. (Prerequisite: 59-250.) (3 lecture hours a week.)

**59-451. Special Topics in Inorganic Chemistry**

Advanced topics in inorganic chemistry and organometallic chemistry may include analytical and spectroscopic methods of use to the inorganic chemist, advanced topics in main group chemistry, coordination chemistry, organometallic chemistry, or the chemistry of the lanthanides and actinides. (Prerequisite: 59-351 or consent of instructor.) (2 lecture hours a week.) (This course may be repeatable for credit.)

**59-452. Surface Chemistry and Analysis**

This course provides an introduction to the properties of surfaces with a focus on the formation, characterization and applications of self-assembled monolayers. Specific topics will include methods of preparation, molecular-level control of macroscopic surface properties, chemical reactions on the monolayer surface, and surface characterization techniques. The

course will also cover applications of self-assembled monolayers such as their use as etch resists, as substrates for crystallization, and as model biological surfaces. (Prerequisite: 59-350.) (3 lecture hours per week.)

**59-464. Enzymology and Biotechnology**

This course will focus on the structural and mechanistic properties of biological enzymes. Topics to be covered include, chemical catalysis, kinetics, activity inhibition, catalytic mechanisms, and an overview of modern approaches to studying enzymes. Molecular mechanisms regulating the activities of enzymes in the cell will be discussed. (Prerequisite: 59-261.) (2 lecture hours per week.)

**59-466. Drug Design**

Lectures cover various aspects of drug discoveries and designs. Beginning with basic knowledge in pharmacokinetics and pharmacodynamics, students should learn how lead is discovered and how the lead is modified to yield potent therapeutic agents. Several techniques in the area of molecular biology, biochemistry, organic chemistry and computational biology will be discussed and presented. (Prerequisite: 59-261.) (2 lecture hours per week.)

**59-468. DNA Science and Diagnostics**

An advanced lecture dealing with DNA science and the application of DNA technology in the understanding and diagnosis of human disease. The lectures cover the biochemistry and expression of DNA and RNA at the molecular level, the theory and practice of recombinant DNA technology, and the application of DNA probes in diagnosis of human disease and in human gene therapies. (Prerequisite: 59-365.) (2 lecture hours per week.)

**59-470. Introduction to Computational Chemistry**

Students are introduced to modern methods in computational chemistry, including semi-empirical techniques, ab initio calculations, molecular mechanics, and biomolecular modelling. Course emphasis is upon the physical basis of these techniques and their application in chemical research. Practical instruction in modelling and graphical software will be given, and assignments and projects will be computer based. (Prerequisite: 59-241.) (3 lecture, 2 laboratory hours per week.)

**59-476. Special Topics in Chemistry**

(2 lecture hours a week.) (This course is repeatable for credit.)

**59-480. Bioinformatics/Genomics/Proteomics**

Introduction to informatics, flow of genetic information from nucleic acid sequence to amino acid sequence, gene expression profiling at the mRNA level, gene micro arrays, application of genomic database (Swissprot, gene bank). Introduction to functional genomics, proteomics, protein profiling, 2D gel electrophoresis, mass spectrometry of proteins eluted from 2D gels, peptide mass fingerprinting, comparative proteome analysis, application of 2D protein database and MS peptide database, high throughput analysis of protein-protein interactions, antibodies and phage-display technologies for protein micro array analysis, application of the biomolecular interaction network database (BIND) to find and predict protein-protein interactions. (Prerequisite: 59-365 or 55-350.) (2 lecture hours per week and 1 computer lab hour per week.)

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## COMPUTER SCIENCE: COURSES

Not all courses listed below will necessarily be offered every academic year.

Due to the fact that Computer Science is a relatively new and continuously evolving discipline, some of the courses listed may undergo slight revision and therefore may not always conform exactly to the detailed descriptions given below.

All courses listed below are three lecture hours per week, unless otherwise stated. In addition, laboratory/tutorial time may be scheduled as required.

*Note:* Most Computer Science courses require substantial time out of class in writing, correcting, and testing computer programs. Students should be prepared to devote a minimum of three to five hours a week per course to assignment work alone.

### 60-100. Key Concepts in Computer Science

The objectives of this course are to excite students' interest in computer science and to give students a precise understanding of a number of difficult concepts that are fundamental to modern computer science. Topics may include: data types; induction and recursion; algebraic characterization; syntax; semantics; formal logic; soundness, completeness, and decidability; specification, algorithm, implementation, and determinism; complexity. (Restricted to students registered in programs offered wholly or jointly by Computer Science or by Mathematics and Statistics, or with approval of Computer Science.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

### 60-104. Computer Concepts for End-Users

Introduction to the concepts of operation of a computer system, including hardware and software. Development of conceptual understanding of word processors, databases, spreadsheets, etc., and practical experience with their use. Networking concepts and data communication concepts will be introduced. The Internet will be introduced with students having access to internet resources. Management information systems including the systems development lifecycle will be discussed. Fundamental concepts of algorithm development and programming will be introduced. Hands-on experience with microcomputers as well as a distributed-computing environment will be involved. In addition to lecture time, laboratory/tutorial time may be scheduled as required. (May not be used to fulfill the major requirements of any major or joint major in Computer Science.)

### 60-106. Programming in C for Beginners

The course is an introduction to programming in C. Two major goals of this course are: teaching a rational approach to program development, and teaching an introduction to ANSI C. The emphasis of this course is on the first goal. This course adapts a library-based approach that emphasizes the principle of abstraction: library and modular development. The five-phase software development method is used to solve problems. Topics of this course include: a brief introduction to Computer Science, introduction to computer hardware, statement forms, iteration, functions, top-down design, basics of modular programming, recursion, arrays, pointers, dynamic data structures, and file processing. (Antirequisite: 60-140.) (Normally may not be taken for credit by students registered in programs offered wholly or jointly by Computer Science.)

### 60-140. Introduction to Algorithms and Programming I

This course is the first of a two-course sequence designed to introduce students to algorithm design and programming in a high-level language such as C. The main objectives of the course are to develop the ability to identify, understand and design solutions to a wide variety of problems. Topics include: computer system overview, hardware and software, problem solving steps, concepts of variables, constants, data types, algorithmic structure, sequential logic, decisions, loops, modular programming, one-dimensional arrays, text files. If possible, problems like searching/sorting will be addressed. (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

### 60-141. Introduction to Algorithms and Programming II

This course is the continuation of 60-140 that introduces students to more advanced algorithm design and programming in a high level language such as C. The main objectives of the course are to develop the ability to identify, understand, and design solutions to a wide variety of problems. Topics covered include: multi-dimensional arrays, pointers, strings, advanced modular programming, records, binary files, recursion, stacks, linked lists and introduction to algorithm analysis. (Prerequisite: Minimum grade of C- in 60-100 (or 62-140) and 60-140.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

### 60-205. Introduction to the Internet

Students will be introduced to the Internet as a global information infrastructure, including the development of early and current communication protocols and services, packaging of data, and data transmission. Fundamental concepts of and tools to support Internet browsing through concepts of Universal Resource locators and Hypertext Markup Languages will be included. Students will be required to publish a website on the Internet using HTML. Web page enhancement through the use of JavaScript and other tools will be introduced. The functionality of electronic mail and bulletin board services will be introduced with hands-on experience in sending and receiving information, automated title searching, and an introduction to organizing information to be accessible over the network. Technical methods of binary data transfer on analog carriers will be introduced and comparison of Ethernet and ATM fibre-optic digital delivery will be discussed. In addition to lecture time, laboratory/ tutorial time may be scheduled as required. (Prerequisite: (Minimum grade of C- in 60-104 or 60-140.) (May not be used to fulfill the major requirements of any major or joint major in Computer Science.)

### 60-207. Problem Solving and Information on the Internet

Students will be introduced to logic and critical appraisals including reasoning skills and critical thinking in the computer age. Problem solving and heuristics will be discussed including how to solve problems by coming up with the right strategies. Searching using Boolean logic to pinpoint useful and reliable information will be introduced. Methods for being self-critical and critical of web information in order to perform evaluations will be studied. (Prerequisites 60-104 and 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.)

#### **60-212. Object-Oriented Programming Using Java**

Concepts of classes and objects, Java applications, frames, event handling, control structures, methods, arrays, string manipulations, object-based programming, object-oriented programming - inheritance, polymorphism, interface and abstract classes, anonymous classes, data structures in Java, exception handling, introduction to graphical user interface. (Prerequisite: Minimum grade of C- in 60-141.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-214. Computer Languages, Grammars, and Translators**

Pragmatic and theoretical aspects of grammars, recognizers, and translators for computer languages will be discussed. The topics covered will include regular languages and context-free languages, including parsers and parser generators for such languages. Attribute grammars, syntax-directed translation, interpreters and compilers will also be discussed. (Prerequisite: Minimum grade of C- in 60-100 and 60-212.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-231. Theoretical Foundations of Computer Science**

An introduction to Mathematical Logic, Set Theory, and Graph Theory. Topics include propositional logic, first order logic, proof techniques, mathematical induction, sets, operations on sets, relations, operations on relations, functions, countable and uncountable sets, graph connectivity, graph isomorphism, trees, Euler graphs, Hamilton graphs, planar graphs and graph colouring. (Restricted to students in Computer Science with a major average of 8.0 or better.) (Prerequisite: Minimum grade of C- in 60-100 and 62-190.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-254. Data Structures and Algorithms**

An introduction to the programming and time-complexity analysis of internal (main store) and external data structures. Topics include linear lists, stacks, queues, linked structures, trees, binary trees; sorting techniques, including heap sort, quick sort, merge sort, shell sort; searching techniques including binary search, binary search trees, red-black trees, hashing. Algorithm design paradigms like divide-and-conquer, dynamic programming, greedy, external sorting, B-trees. (Prerequisite: Minimum grade of C- in 60-100 and 60-212.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-256. Systems Programming**

This course introduces students to advanced software development techniques in system programming using the C language in the UNIX environment. Topics include introduction to modern operating systems, system calls, managing processes, the use of fork and exec, signals, file processing, filters, pipes, scripting languages, introduction to concurrency (e.g. synchronization), network programming (e.g. using sockets), client-server problems. (Prerequisite: Minimum grade of C- in 60-141.) (3 lecture, 1.5 laboratory hours/ week; plus unsupervised study and work on individual assignments.)

#### **60-265. Computer Architecture I: Digital Design**

Number systems, switching algebra, logic gates, circuit minimization. Combinational circuits. Read-only memory, random-access memory, programmable logic. Synchronous and asynchronous sequential circuits. Latches, flip-flops, registers, counters, register transfer language. Digital integrated circuits. Hardware description languages. (Prerequisite: Minimum grade of C- in 60-140.) (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-266. Computer Architecture II: Microprocessor Programming**

Data representation, central processing unit, arithmetic logic unit, control unit. Assembly language concepts. Memory segmentation. Programming a typical microprocessor (e.g. Intel 8086 family or Motorola 6800 family). Instruction set architecture- addressing modes and formats, register set. Basic Input/Output devices, Programming I/O operations. Interrupts, disk controllers. (Prerequisite: Minimum grade of C- in 60-265). (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)

#### **60-270. Advanced Web Design, Construction, and Deployment**

This course is intended to teach the student about advanced website creation and to give an understanding of some of the technology behind websites, as well as an understanding of emerging web-related technologies. Topics covered will include JavaScript, Style Sheets, Dynamic HTML, XML, XHTML, Web Browser compatibility issues, and how web servers work. (Prerequisite: 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.)

#### **60-275. Selected Topics I**

Topics may differ from year to year. (Prerequisite: Minimum grade of C- in 60-100, 60-140, and 60-141.)

#### **60-280. Practicum**

This is a practical software development course. (Current language used: Java.) (Prerequisite: Minimum grade of C- in 60-212.)

#### **60-298. Co-op Work Term I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to

integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **60-305. Cyber-Ethics**

A number of key concerns about social welfare in our cyber age will be explored. Law, morality, public policy, and how these both influence and are influenced by the Internet will be examined. This course will critically appraise issues surrounding, but not limited to, free speech, property rights (especially intellectual property), privacy, security, and artificial intelligence. Issues raised by ethical theorists, policy makers, legal experts, and computer scientists will be analyzed in this course. (Prerequisites: 60-104 and 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.)

#### **60-311. Introduction to Software Engineering**

This course introduces the fundamental concepts, common principles, and general techniques of software engineering. It discusses the main issues involved in the development life-cycle of nontrivial software systems, including process models, feasibility studies, requirements elicitation and definition, rapid prototyping, design methodologies, verification and validation, and software evolution. Students taking this course are required to work on projects, which are designed to go through the major phases of large-scale software system development. (Prerequisite: Minimum grade of C- in 60-212, 60-254 and 60-256.)

#### **60-315. Database Management Systems**

This course will acquaint students with the Basic concepts of Database Systems. The topics covered will include 3-level architecture, introduction to file structures: B-trees, B+ Trees and Hashed files, relational model, relational algebra and calculus, SQL, and database design with Normalization Theory. (Prerequisite: Minimum grade of C- in 60-254 and 60-256 or 60-265.)

#### **60-322. Object-Oriented Software Analysis and Design**

This course builds on the knowledge of object-oriented programming, data structures, and file structures gained in courses 60-212, 60-254, and 60-256. Students are introduced to object-oriented software analysis and design techniques that are currently used in industry. (Prerequisite: Minimum grade of C- in 60-212, 60-254.)

#### **60-330. Operating Systems Fundamentals**

Operating system services, introduction to primary components of multi-programming operating systems, CPU scheduling, concurrent processes, process synchronization and interprocess communication, deadlocks, memory management, file systems, virtual memory, disk scheduling. (Prerequisite: Minimum grade of C- in 60-212, 60-254, 60-256, and 60-265 or 60-266.)

#### **60-334. World Wide Web Information Systems Development**

This course is designed for people who want to make their data available to others over the Internet. Topics will include WWW authoring, WWW site planning, executable programs that create dynamic documents, the client-server model, multi-tier WWW software architecture, and security aspects. (Prerequisite: Minimum grade of C- in 60-212 and 60-254.)

#### **60-336. World-Wide Website Design and Development**

(Intended for Engineering students.) This is a course on designing and developing a professional web site to be available on the Internet. Topics will include Internet protocols, web site planning and design, and writing programs to create simple to complex and dynamic documents, and data gathering and validation, both on the client and server side. The languages used will be HTML, Dynamic HTML, JavaScript and Perl. (Prerequisites: minimum grade of C- in 85-132 and 85-211; Antirequisites: 60-270 and 60-334.) (This course may not be taken to fulfill the requirements of any major or joint major in Computer Science.)

#### **60-350. Introduction to Multimedia Systems**

This course provides the student with basic concepts and techniques used in multimedia systems. Topics include: components of multimedia systems (text, audio, and video), media formats and standards, data compression techniques, hypermedia techniques, and authoring tools. (Prerequisite: Minimum grade of C- in 60-212, 60-254, 60-256 and 60-265.)

#### **60-352. Introduction to Computer Graphics**

An introduction to computer graphics hardware and software, interfaces, standards, programming libraries, fundamental algorithms, rendering techniques, and algorithms for 2D and 3D applications. Substantial programming work is vital to this course. (Prerequisite: Minimum grade of C- in 60-254 and 62-120.)

#### **60-354. Theory of Computation**

Finite Automata, regular expressions and languages; properties of regular languages; context-free grammars and languages; pushdown automata; properties of context-free languages. Introduction to Turing machines; recursive functions; undecidability. (Prerequisites: Minimum grade of C- in 60-214, 60-231 and 60-254.)

#### **60-367. Computer Networks**

This course is an introduction to computer networks and their protocols. Topics include: network architectures, transport, routing, and data link protocols, addressing, local area networks, flow and congestion control, and network security. Examples will be drawn primarily from the Internet (e.g. TCP, UDP, IP) protocol suite. (Prerequisite: Minimum grade of C- in 60-212, 60-254, 60-256 and 60-265. Recommended corequisite: 60-330.)

#### **60-368. Network Practicum**

This course will acquaint the students with practical details of network software and hardware. Topics will include design,

setup, configuration and implementation of various network functions. (Prerequisite: Minimum grade of C- in 60-330 and 60-367.) (3 lecture, 1.5 lab hours a week.)

#### **60-373. Symbolic Programming**

The emphasis of this course will be on logic programming and Prolog language. The theoretical background that will be developed includes automated theorem proving, using resolution and unification, logic, functional programming paradigm and lambda calculus. Students will develop practical programming skills using Prolog and Lisp. (Prerequisite: Minimum grade of C- in 60-254 and 60-256.)

#### **60-374. Introduction to Artificial Intelligence**

This course covers fundamental concepts in Artificial Intelligence including problem solving and search, knowledge representation and reasoning, planning, learning, and natural language understanding. The course will cover both theoretical and practical aspects of list processing. Programming assignments will require the use of symbolic programming language. (Prerequisite: C- or better in 60-373.)

#### **60-375. Selected Topics**

Topics may differ from year to year. (Prerequisite: Minimum grade of C- in 60-212, 60-254, and 60-256. Additional courses may be required depending upon the subject.)

#### **60-376. Selected Topics**

Topics may differ from year to year. (Prerequisite: Minimum grade of C- in 60-212, 60-254, and 60-256. Additional courses may be required depending upon the subject.)

#### **60-393. Developing Systems for Information Processing**

An historical perspective on the use and growth of the computer in business. A discussion of the business environment in which this use and growth has been and is taking place. Basic concepts of the systems development cycle of today's business and management information systems. The planning and managing of the system development life cycle. (Prerequisite: Minimum grade of C- in 60-212, 60-254, 60-256, and 60-265.)

#### **60-398. Co-op Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **60-411. Software Verification and Testing**

This course introduces students to the verification and testing phases of software development. It will discuss concepts, processes, models, patterns, and tools for verification and analysis. An important component is a group project involving the verification and/or testing of a large software system. (Prerequisites: Minimum grade of C- in 60-311, 60-315 and 60-330.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-415. Advanced and Practical Database Systems**

This course covers both advanced theoretical database materials as well as specific database application development tools needed in the industry. The course completes database design and theory initiated in 60-315 and then adds database application development languages. Students will be exposed to the running environments (e.g., their compilers) and applying these on the database theory and design of the first part to develop full application. (Prerequisites: Minimum grade of C- in 60-315, 60-322, and 60-330.)

#### **60-436. Distributed Computing**

This course provides an overview of computer networks and distributed systems, covering aspects ranging from encoding bits on a transmission medium to the design of distributed application software. (Prerequisite: Minimum grade of C- in 60-254, 60-256, 60-330 and 60-367.) (Restricted to Computer Science students with a major average of 8.0 or better.)

#### **60-440. Principles of Programming Languages**

Basic concepts of programming languages. Comparative study of the major programming paradigms, including imperative, object-oriented, functional, logic, and concurrent programming. Principles of programming language design and evaluation. Syntax, semantics and implementation techniques of programming languages. (Prerequisite: Minimum grade of C- in 60-214, 60-231 and 60-254.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-450. Multimedia System Development**

The aim of this course is to discuss a wide range of technologies used in the development of multimedia objects, networked multimedia systems, user interfaces, and multimedia on the Internet. (Prerequisite: Minimum grade of C- in 60-350 and 60-367.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-454. Design and Analysis of Computer Algorithms**

The intent of this course is to introduce the fundamental techniques in the design and analysis of computer algorithms. Topics include: asymptotic bounds, advanced data structures, searching, sorting, order statistics, oracle arguments, divide-and-conquer, greedy algorithms, dynamic programming, graph algorithms, NP completeness, and approximation algorithms. (Prerequisite: Minimum grade of C- in 60-231, 60-254 and 60-354.) (Restricted to Semester 7 and semester 8 students in Computer Science with a major average of 8.0 or better.)

#### **60-460. Digital Design and Computer Architecture**

Modular design concepts in digital circuits. Interfacing facilities. Memory Organization. Architecture classification schemes.



Parallel computing architectures. Pipelining and vector processing. Alternate architectures and performance enhancement. (Restricted to students in Computer Science with a major average of 8.0 or better.) (Prerequisite: Minimum grade of C- in 60-265 or 60-266, 60-330 and 60-367.)

#### **60-467. Network Security**

This course will introduce students to advanced topics in network security. Topics will include encryption and authentication techniques, detection and analysis of intrusions, and the security of electronic mail and web access. (Prerequisites: Minimum grade of C- in 60-367.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-468. Advanced Networking**

The course will introduce students to advanced topics in networking. (Prerequisites: Minimum grade of C- in 60-367 and 60-368.) (Restricted to students in CS with a major average of 8.0 or better.)

#### **60-470. Project Using Selected Tools**

Students will complete a project using an advanced computing tool, such as a database package, simulation software, speech-recognition hardware module, etc. Students are required to submit a report describing the project and demonstrating mastery of the tool. Tools and the project are chosen by the student with the approval of the instructor. (Prerequisite: Minimum grade of C- in 60-315, 60-322, and 60-330.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-473. Advanced Topics in Artificial Intelligence**

The course will introduce students to advanced topics in AI. (Restricted to Honours Computer Science students) (Prerequisite: C- or better in 60-374.)

#### **60-474. Advanced Topics in Artificial Intelligence I**

The course will introduce students to advanced topics in AI. (Restricted to Honours Computer Science students.) (Prerequisite: C- or better in 60-374.)

#### **60-475. Selected Topics**

In many cases the topics will coincide with a graduate course offering in a given year, and students will be required to complete the lecture component of that graduate course. Topics may include: advanced database management, graphics, artificial intelligence, information retrieval, theory of computation, functional programming, knowledge base systems, and foundations of programming languages. (Restricted to Semester 7 and Semester 8 students in Computer Science with permission of the instructor.)

#### **60-476. Selected Topics**

In many cases the topics will coincide with a graduate course offering in a given year, and students will be required to complete the lecture component of that graduate course. Topics may include: advanced database management, graphics, artificial intelligence, information retrieval, theory of computation, functional programming, knowledge base systems, and foundations of programming languages. (Restricted to Semester 7 and Semester 8 students in Computer Science with permission of the instructor.)

#### **60-480. Practicum: Selected Topics in Software Engineering**

This course intends to connect emerging technologies with the student's theoretical background in Computer Science related to Software Engineering concepts and techniques. Selected application domains include protocol security, web systems and distributed object systems and the theories involved include graph theory, set theory, automata and compiler theory. (Prerequisite: Minimum grade of C- in 60-311, 60-322 and 60-330.) (Restricted to students in Computer Science with a major average of 8.0 or better.)

#### **60-497. Co-op Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **60-498. Co-op Work Term IV**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **60-499. Project Management: Techniques and Tools**

The course consists of two components: a) exposure to project-presentation and project management skills, and b) working on a large project in a group. The course co-ordinator will arrange lectures on a variety of relevant topics. The lectures may have quizzes and/or short assignments. Students will be expected to develop skills in technical writing, organizing seminars, techniques for use of multimedia tools, as well as developing a major project using a modern software tool. (Restricted to Semester 7 and Semester 8 students in Computer Science with a major average of 8.0 or better.)

# Winter 2008 Undergraduate Calendar

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Courses are three hours a week (3.00 credit hours) unless otherwise indicated.</p> <p><b>24-100. The Nature of Theatre I</b> Introduction to the Process of Theatre. Two of the following topics will be covered: the analysis of the play script; the mechanics of performance; the principles of direction; and the theories of design/technical theatre. Nature of Theatre is a two-part sequence, required for majors in all School of Dramatic Art programs. A laboratory assignment supporting the production schedule of University Players is required for either 24-100 or 24-200. Three critical writing assignments are required for the term in which a laboratory is not taken. This course must be successfully completed in the first year of the program. (Laboratory hours by arrangement).</p> <p><b>24-111. Theatre in Contemporary Culture</b> An examination of factors and principles involved in an audience's appreciation of theatre. (No prerequisite.) (Open to non-Dramatic Art majors.)</p> <p><b>24-115. Stagecraft I</b> Introductory course specifically directed toward the technical aspects of scenic construction.</p> <p><b>24-120. Voice for the Actor I</b> An introduction to the study and practice of voice and speech for the theatre. (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)</p> <p><b>24-121. Voice for the Actor II</b> Continuation of 24-120. The study and practice of voice and speech for the theatre. (Restricted to B.F.A. Acting students only.) (Prerequisite: 24-120.) (Laboratory hours by arrangement.)</p> <p><b>24-126. Movement for the Actor I</b> An introduction to the study and practice of movement for the actor. (1.50 credit hours) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)</p> <p><b>24-127. Movement for the Actor II</b> Continuation of 24-126. The study and practice of movement for the actor. (Prerequisite: 24-126.) (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)</p> <p><b>24-128. Improvisation and Introduction to Acting for the Theatre I</b> An introduction to the study and practice of acting with an emphasis on the basic elements of improvisation. (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)</p> <p><b>24-129. Improvisation and Introduction to Acting for the Theatre II</b> Continuation of 24-128. The study and practice of basic elements of acting and improvisation (Prerequisite: 24-128.) (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)</p> <p><b>24-130. Theatre History I</b> Critical approaches to the main elements of Greek and Roman theatre, medieval western and Asian theatre, Italian, Spanish, and English Renaissance Theatre. (Open to non-Dramatic Art majors.)</p> <p><b>24-160. Introduction to Drama in Education and Community I</b> An introduction to the principles, theories and applications of Drama in Education and Community with an emphasis on creativity, storytelling, and the developmental aspects of play. (Restricted to Drama in Education and Community Majors, or consent of instructor.)</p> <p><b>24-161. Introduction to Drama in Education and Community II</b> A continuing study of Drama in Education and Community. (Prerequisite: 24-160 or consent of instructor.) (Restricted to Drama in Education and Community Majors, or consent of instructor.)</p> <p><b>24-200. The Nature of Theatre II</b> Continuation of 24-100. Two topics not covered in 24-100 will be covered in 24-200. Nature of Theatre is a two-part sequence, required for majors in all School of Dramatic Art programs. A laboratory assignment supporting the production schedule of University Players is required for either 24-100 or 24-200. Three critical writing assignments are required for the term in which a laboratory is not taken. This course must be successfully completed in the first year of the program. (Laboratory hours by arrangement).</p> <p><b>24-210. Speech Communication to Inform</b> A beginning course designed to help the student to develop poise and confidence in communicating information. (Not available on an Audit basis.)</p> <p><b>24-211. Scenic Design I</b> Introduction to the technical aspects of design for the stage; communicating the design idea through basic drafting</p>
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techniques. (Prerequisite: 24-115, or consent of instructor.)

**24-212. Scenic Design II**

Problems related to the designing of a multi-set production; communicating the design idea through the use of drafting, models, and colour renderings. (Prerequisite: 24-211 and 24-213, or consent of instructor.)

**24-213. Scene Painting for the Theatre**

Laboratory and demonstration course with an emphasis on materials, texturing techniques, and the creation of three-dimensional effects.

**24-215. Lighting Design I**

The introduction and application of basic principles, including electricity, instruments, and design theory. (Laboratory hours by arrangement.) (Prerequisite: 24-115.)

**24-216. Stage Lighting II**

Continuation of 24-215, with particular emphasis on expanded technologies and lighting for non-proscenium formats. (Prerequisite: 24-215, or consent of the instructor.)

**24-217. Costume Design**

The principles of costume design for the stage; character analysis; textile manipulation.

**24-219. Costume Design II**

Continuation of 24-217, involving theoretical and practical design projects; formal presentation of costume designs, including traditional and computer-assisted rendering techniques; mannequin work and finishing apparel. (Prerequisite: 24-217, or consent of the instructor.)

**24-220. Voice for the Actor III**

Continuation of 24-121. The study and practice of voice and speech for the theatre. (Prerequisite: 24-121.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-221. Voice for the Actor IV**

Continuation of 24-220. The study and practice of voice and speech for the theatre. (Prerequisite: 24-220.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-223. Acting for the Theatre I**

Continuation of 24-129. The emphasis will be on acting exercises, script analysis and scene work. (Prerequisite: 24-129.) (Restricted to B.F.A. Acting students only.) (May be taken twice with the consent of instructor if assignments or their treatments are significantly varied.)

**24-224. Acting for the Theatre II**

Continuation of 24-223. The emphasis will be on the analysis and performance of scenes from plays. (Prerequisite: 24-223.) (Restricted to B.F.A. Acting students only.) (May be taken twice with the consent of instructor if assignments or their treatments are significantly varied.)

**24-225. Introductory Acting I**

A practical study of the fundamentals of acting experienced through acting exercises. (Not open to B.F.A. Acting students.)

**24-226. Movement for the Actor III**

Continuation of 24-127. The study and practice of movement for the actor. (Prerequisite: 24-127.) (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-227. Movement for the Actor IV**

Continuation of 24-226. The study and practice of movement for the actor. (Prerequisite: 24-226.) (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-228. Improvisation for the Theatre**

Exercises in improvisation designed to support the rehearsal process for scripted works (Prerequisite: 24-129. Co-requisite: 24-223 or 24-224.) (Restricted to BFA Acting majors only.) (Laboratory hours by arrangement.)

**24-229. Dance for the Theatre**

A practical course in a variety of dance styles for the theatre. (Not open to B.F.A. Acting Majors except by consent of instructor.) (Laboratory hours by arrangement.)

**24-230. Theatre History II**

Critical approaches to the main elements of theatre of the seventeenth, eighteenth, and nineteenth centuries. (Open to non-Dramatic Art majors.)

**24-235. Introductory Acting II**

Emphasis is on acting exercises based on script analysis. (Prerequisite: 24-225, or consent of instructor.) (Not open to B.F.A. Acting students.)

**24-244. Directing I**

An examination of the principles of play direction, including the role of the director, choosing plays, casting, analysis, picturization and composition, rehearsal techniques, and scene presentation. (Prerequisite: 24-225, or consent of instructor.)

(Laboratory hours by arrangement.)

**24-260. Drama in the Classroom: Principles and Theories**

A course in the use of drama as it relates to the school curriculum and the community. (Prerequisite: 24-161.) (Restricted to Drama in Education and Community students only.)

**24-261. Drama in the Classroom: Applications I**

Applications of drama as they relate to the curriculum for Grades K through Six. Completion of a classroom contact is required. (Field contacts are with the consent of Drama in Education and Community instructors and may be outside class time.) (Prerequisite: 24-260 or consent of instructor.) (Restricted to Drama in Education and Community students only.)

**24-272. The Creative Process**

An introduction to the creative process through an exploration of various theories, principles, and techniques of selected theorists and innovative thinkers. Students may explore such topics as: Creative Problem Solving, Idea Generation, and Innovation. Through academic study and practical work, students will explore ways of developing their own creative potential and applying it to their daily lives. (Not open to 1st year students.)

**24-275. Principles and Practices of Arts Administration**

Structures of arts organizations. Examination of core competencies as applied to arts organizations: fund raising, board and volunteer management, labour-management issues, program and publicity design, marketing and promotion, computer applications. (Credit may not be obtained for both 24-275 and 01-360.)

**24-277. Improvisation and Self Development**

Involves the development of performance skills through a practical application of theatre games and basic elements of improvisation with emphasis on self-development. (Prerequisite: 24-161 or consent of instructor.) (Individual course sections may be restricted to Drama in Education and Community students only.)

**24-278. Improvisation: Working with Text**

A continuation of the study of improvisation. Involves practical applications of improvisation to improvised scenes and written texts. (Prerequisite: 24-277 or consent of instructor.) (Individual course sections may be restricted to Drama in Education and Community students only.)

**24-284. Creative Movement and Voice I**

The study and practice of movement and voice as they relate to the individual, theatre, and the classroom. Emphasis may be on one or both disciplines as necessary. (Prerequisite: 24-100 or consent of instructor.) (Laboratory hours by arrangement.)

**24-309. Oral Interpretation of Literature**

A course designed to bring to the student an understanding of effective methods of content analysis and presentation of literature. Various kinds of literature will be chosen by the student through the oral interpretation of which he or she may demonstrate an understanding and ability.

**24-310. Readers' Theatre**

A study of the principles and techniques involved in script-in-hand acting and of dramatic play-reading. (Prerequisite: 24-225 or 24-277.)

**24-315. Stage Management**

A study of the role of the theatrical stage manager. Particular emphasis will be given to rehearsal organization and communication, cue notation, crew supervision, safety issues, Canadian Actors' Equity guidelines, and managing the production while in technical/dress rehearsals and performance. (Prerequisite: 24-200, or consent of the instructor.)

**24-319. Studies in Design**

Designed for the advanced student who wishes to explore further studies in scenic, lighting, or costume design. (Prerequisite: consent of a faculty advisor.) (May be repeated for credit if assignments or their treatments are significantly varied.)

**24-321. Acting-Work in Progress I**

Rehearsal project in a performance style selected by Dramatic Art. The play or scenes from plays become the catalyst for the discovery of the style related to its period. (Prerequisite: 24-224.) (Restricted to B.F.A. Acting students only.) (May be repeated for credit if assignments or their treatments are significantly varied.)

**24-322. Acting-Work in Progress II**

Rehearsal project in a performance style selected by Dramatic Art. The play or scenes from plays become the catalyst for the discovery of the style related to its period. (Prerequisite: 24-224.) (Restricted to B.F.A. Acting students only.) (May be repeated for credit if assignments or their treatments are significantly varied.)

**24-323. Acting-Work in Progress III**

Rehearsal project in a performance style selected by Dramatic Art. The play or scenes from plays become the catalyst for the discovery of the style related to its period. (Prerequisite: 24-224.) (Restricted to B.F.A. Acting students only.) (May be repeated for credit if assignments or their treatments are significantly varied.)

**24-324. Acting-Work in Progress IV**

Rehearsal project in a performance style selected by Dramatic Art. The play or scenes from plays become the catalyst for the discovery of the style related to its period. (Prerequisite: 24-224.) (Restricted to B.F.A. Acting students only.) (May be

repeated for credit if assignments or their treatments are significantly varied.)

**24-325. Intermediate Acting III**

Emphasis is on the development of situation and characterization. The period to be studied may vary from year to year. (Prerequisite: 24-235 or consent of instructor.) (Not open to B.F.A. Acting students.)

**24-326. Voice and Movement for the Actor I**

Application of voice and movement techniques as they relate to performance assignments. Emphasis may be on one or both disciplines as necessary. (Prerequisite: 24-227.) (1.50 credit hours.) (May be taken twice for credit.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-327. Voice and Movement for the Actor II**

Advanced application of voice and movement techniques as they relate to performance assignments. Emphasis may be on one or both disciplines as necessary. (Prerequisite: 24-221.) (1.50 credit hours.) (Restricted to B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-330. Theatre from the Twentieth Century to the Present Day**

Critical approaches to major theatrical movements and experiments in theatre during the twentieth and twenty-first centuries. (Open to non-Dramatic Art majors.)

**24-333. Canadian Theatre History**

A study of the evolution of theatre in Canada. (Open to non-Dramatic Art majors.)

**24-344. Directing II**

A practical course involving rehearsal techniques and the presentation of scenes or one-act plays. (Prerequisite: 24-244 or consent of instructor.) (Laboratory hours by arrangement.)

**24-351. Production Problems**

Advanced explorations of current trends, materials, or practices in performance or non-performance, with an emphasis on problem solving techniques. The student will research and develop solutions to one or more production problems and present his/her findings in a seminar or performance situation. (Prerequisite: A minimum of two courses and/or equivalent experience in the subject area(s) explored and, consent of a faculty advisor and Director of the School.) (Hours by arrangement.) (May be repeated for credit if assignments or their treatments are significantly varied.)

**24-352. Production Problems**

Advanced explorations of current trends, materials, or practices in performance or non-performance, with an emphasis on problem solving techniques. The student will research and develop solutions to one or more production problems and present his/her findings in a seminar or performance situation. (Prerequisite: A minimum of two courses and/or equivalent experience in the subject area(s) explored and, consent of a faculty advisor and the Director of the School.) (May be repeated for credit if assignments or their treatments are significantly varied.) (Hours by arrangement.)

**24-353. Production Problems: Stage Management**

A theoretical and practical course examining the duties and responsibilities of the theatrical stage manager, including rehearsal procedures, protocol and etiquette, assembling the production script, cuing methods and notations, and security/safety regulations. (Prerequisite: 24-315 plus previous experience as an assistant stage manager and consent of a faculty advisor.) (May be repeated for credit if assignments or their treatments are significantly varied.) (Laboratory hours by arrangement.)

**24-360. Drama in the Classroom: Applications II**

Applications of drama as they relate to the curriculum for Grades Seven through Twelve. Completion of a classroom contact is required. (Field contacts are with the consent of Drama in Education and Community instructors and may be outside class time.) (Prerequisite: 24-261 or consent of instructor.) (Restricted to Drama in Education and Community students only.)

**24-371. Literacy in Action**

A course in the use of drama as it relates to the development of literacy in classroom and community settings. (Prerequisite: 24-261.) (Restricted to Drama in Education and Community students only.)

**24-377. Drama and Community: Principles and Theories**

A practical introduction to principles, theories, and applications of drama and theatre techniques to promote and maintain health and well-being for individuals and communities. Focus will be on developing skills in leadership and facilitation in a wide range of community settings. (Pre-requisite: 24-261 or consent of instructor.)

**24-378. Theatre for Social Action**

A study of the theory, practice, and development of popular, community, and collective theatre. Students will examine various approaches to theatre for social action through a combination of academic study and practical exercises in specific popular theatre techniques, including Theatre of the Oppressed and Playback Theatre. (Open only to 3rd and 4th year Drama in Education and Community students or by consent of Instructor.) (May be repeated for credit twice if assignments or approaches are significantly different.)

**24-384. Creative Movement and Voice II**

Continuation of 24-284. The study and practice of movement and voice as they relate to the individual, theatre, and the classroom. Emphasis may be on one or both disciplines as necessary. (Prerequisite: 24-284 or consent of instructor.) (Laboratory hours by arrangement.)

**24-400. Style in Theatre**

An exploration of selected theatrical styles. Topics and materials may vary from year to year. (Students may use this course number to register for the Stratford Summer Campus. Contact Dramatic Art for further information.) (May be repeated for credit twice if assignments or approaches are significantly varied.)

**24-420. Graduation Recital**

The selection, preparation, and presentation of suitable audition material in a recital situation. An introduction to the business of being a professional actor will be addressed. (Prerequisite: All required first, second, and third year B.F.A. performance courses; restricted to fourth-year B.F.A. Acting students only.) (Laboratory hours by arrangement.)

**24-421. Television Performance**

Introduction to basic television performance techniques. Each student performs behind and in front of the camera although the emphasis is on performance. (Prerequisite: 24-225 or 24-235, or by consent of instructor. Restricted to third- and fourth-year Dramatic Art and Communication Studies students.) (May be taken for credit twice.)

**24-429. Character Study**

Independent work in researching, developing, and presenting character projects based on life studies. (Restricted to Fourth year B.F.A. Acting students only.) (May be taken for credit twice with consent of instructor if assignments or their treatments are significantly varied.)

**24-439. Directed Studies in History, Theory, or Theatre Administration**

Designed for the advanced student who wishes to explore a special area of history, theory, or theatre administration with a faculty advisor. (Prerequisite: consent of a faculty advisor.) (May be taken for credit twice if assignments or their treatments are significantly varied.) (Hours by arrangement.)

**24-449. Directed Studies in Direction**

Designed for the advanced student who wishes to explore a special area of direction with a faculty advisor. (Prerequisite: consent of the faculty advisor.) (May be taken for credit twice.)

**24-451. Performance Seminar**

Study of professional practice and performance in theatre art in a work-in-progress situation. (Restricted to B.F.A. Acting students only.)

**24-452. Directed Studies in Production**

A series of theatrical play production situations in which the advanced student will research, develop, and execute a major technical/design assignment under the supervision of a faculty advisor. (May be repeated for credit if assignments or approaches are significantly varied.) (Prerequisite: consent of a faculty advisor.)

**24-453 to 24-458. Directed Studies in Performance**

The emphasis in these courses will be a series of plays selected and produced by Dramatic Art or by a theatre company outside of the University as approved by Dramatic Art. Students will research, develop, and execute a role in the performance situation under the supervision of a faculty advisor-director. (May be taken for credit twice.) (Restricted to students who have successfully completed the third year of the B.F.A. Acting Program.)

**24-469. Directed Studies in Cross-Cultural Theatre**

Designed for the advanced student who wishes to explore a special area of theatre of a unique culture with a faculty advisor. (Prerequisite: previous experience/courses in the subject area(s) explored and consent of a faculty advisor.) (Restricted to students in Semester 5 and above.) (May be taken for credit twice.)

**24-470. Theatre for Young Audiences**

Research and practical work in the history, principles, and techniques of theatrical performance by, with, and for young audiences. Students may explore international perspectives on topics such as: Theatre in Education, Children's Theatre, Theatre for Youth, Collective Creation, and Devised Theatre. (Prerequisites: 24-277, 24-284, 24-225.) (May be repeated for credit twice if assignments or approaches are significantly varied.)

**24-471. Drama and Community: Applications**

A project-based practical course in the principles and techniques of drama and theatre as they relate to community, educational, and healthcare settings. Students will develop and deliver projects based on topics such as: Drama/Theatre and Disabilities, Theatre in Education, Socio-political Theatre, Popular Theatre, and Theatre for Young Audiences. Projects will be driven by the current research interest and involvement of the instructor or the need and interests of community groups. (Open only to 3rd and 4th year Drama in Education and Community students or by consent of instructor.) (May be repeated for credit if assignments or approaches are significantly varied.)

**24-479. Directed Studies in Drama in Education and Community**

Independent, directed study in a special area of interest in drama in education under the supervision of a faculty advisor. (May be taken for credit twice.) (Prerequisite: 24-371 and 24-377 or consent of the faculty advisor.) (Placement hours by arrangement.)

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## EARTH AND ENVIRONMENTAL SCIENCES: COURSES

All courses listed will not necessarily be offered each year.

### GEOLOGY

#### 61-110. Natural Hazards and Disasters.

The Earth's component systems and their interrelationships. Earth hazards and the Earth's interior processes: volcanism and earthquakes. Hazards and surface processes: landslides and floods. Atmospheric Hazards: storms, hurricanes and tornadoes. This course is designed for non-science majors. (May not be taken as credit for a B.Sc. degree.) (Antirequisite: 61-140 and 61-141.) (2 lecture hours per week.)

#### 61-111. Our Changing Earth

Origin of the Universe and Solar System; focus on the Earth and Moon; earliest life forms. Measurement of geological time. Global climatic change in geological history; drifting continents; deserts, floods and ice sheets. Fossils and evolution; extinctions and probable causes. Human evolution and migrations; early technologies. This course is designed for non-Science majors. (May not be taken as credit for a B.Sc. degree.) (Antirequisite: 61-141.) (2 lecture hours a week.)

#### 61-140. Earth Systems I: The Solid Earth

Origin and nature of the solar system. Earthquakes, seismology and the Earth's interior. Plate tectonics and the Earth's crust. Minerals. Magmatism and igneous rocks. Geologic time. Introduction to sedimentary rocks. Metamorphism and metamorphic rocks. Deformation. Earth resources. This course is designed for Science majors. (2 lecture, 2.5 laboratory hours a week.)

#### 61-141. Earth Systems II: The Earth's Surface

The Earth's surficial systems: surface processes, the hydrosphere and biosphere. Oceans. Streams. Groundwater. Glaciers. Deserts. Weathering and related phenomena. Sediments, fossils, time and paleoenvironmental analysis. Evolution of the biosphere. This course is designed for Science and Engineering majors. (2 lecture, 2.5 laboratory hours a week.)

#### 61-210. Introduction to Oceanography

Geological, biological, physical, and chemical aspects of the oceans; exploration techniques, instruments and vessels; origin of the oceans; ocean circulation; ocean and climate; waves and tides; marine resources. This course is designed for non-Science majors. (May not be taken for credit towards a B.Sc. Degree in Earth Sciences.) (2 lecture hours a week.)

#### 61-213. Geology and the Environment

Effect of geological factors on the environment; pollution of groundwater, ground subsidence, nuclear waste disposal, subsurface disposal of liquid wastes, earthquake prediction and control. This course is designed specifically for the non-scientist. (May not be taken for credit towards a B.Sc. Degree in Earth Sciences.) (2 lecture hours a week or equivalent.)

#### 61-214. Geology and International Development

Aid, international development, and Earth processes; integration of water-resource management, soil conservation and agroforestry; geological hazards in a tropical setting; small-scale mining and conservation of mineral resources; engineering an improved quality of life in developing nations. (May not be taken for credit towards a B.Sc. Degree in Earth Sciences.) (2 lecture hours a week or equivalent.)

#### 61-220. Introduction to Mineralogy

Introduction to fundamental concepts in mineral science: crystal chemistry, symmetry, crystallography, mineral formation and stability. The physical properties of minerals will be studied. Introduction to analytical methods in mineral science including optical microscopy and x-ray diffraction. (Prerequisites: 59-140, 59-141; 61-140 and/or 61-141 recommended.) (2 lecture, 3 laboratory hours a week.)

#### 61-224. Introduction to Geochemistry

An overview of the chemical composition of Earth and the factors governing the cycling of chemicals throughout the earth from the core through to surface environments. Principles of crystal chemistry, chemical reactions and equilibria, oxidation and reduction, adsorption and ion exchange and isotope chemistry and their relevance to Earth processes. (Prerequisites: 59-140, 59-141.) (3 lecture and/or tutorial hours per week.)

#### 61-230. Plate Tectonics and the Earth's Interior

Plate tectonic processes and the major features of crustal evolution; analysis of the Earth's interior using seismologic and other geophysical evidence; introductory tectonic and geophysical problems. (Prerequisite: 61-140.) (2 lecture, 3 laboratory hours a week.)

#### 61-231. Introduction to Petrology

Petrography, textures, composition and classification of igneous and metamorphic rocks. Evolution of magmatic systems. Nature and causes of metamorphism. Relationship between global tectonics and magmatic and metamorphic processes. (Prerequisite: 61-220, or consent of instructor.) (2 lecture, 3 laboratory hours a week.)

#### 61-232. Modern and Ancient Sedimentary Environments

An integrated approach to paleontology and sedimentology; introduction to sedimentary deposits, sedimentary environments and associated invertebrate organisms; depositional systems and paleoenvironmental analysis. (Prerequisite: 61-141.) (2

lecture, 3 laboratory hours a week.)

**61-246. Environmental Decision Analysis**

Earth systems, including climatic extremes, the industrialized ecosystem; decisions under uncertainty in mineral-resource exploration and development; rational approach to decision making, alternatives to decision analysis; environmental impact assessment and risk management, expert systems approach to environmental problem solving, applications in less developed countries. (3 lecture hours a week.)

**61-247. Environmental Auditing in Mineral Resource Development**

Cyclical flow of energy and matter in nature, human interaction with environmental processes, elements of policy analysis; environmental management systems and environmental impact assessment; environmental audit processes, steps in design and delivery; mineral resource development and the audit protocols; from audit to action plan, auditing the audit. (3 lecture hours a week.)

**61-280. Field Camp I**

Introduction to sediment and water sampling, field relationships, mapping methods, and field measurements. Interpretation of topographic and geologic maps, use of compasses and GPS units. Required field trips. (2 weeks; immediately following the winter term examination period.) (Prerequisites: 61-231 and 61-232.)

**61-298. Co-op Work Term I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**61-320. Igneous Petrology**

The origin and evolution of igneous rocks. Melting and crystallization, magmatic differentiation, contamination, mixing of magmas. Mineralogy, petrography, geochemistry and tectonic environments of representative rock suites. (Prerequisite: 61-231.) (2 lecture, 3 laboratory hours a week.)

**61-321. Metamorphic Petrology**

The distribution and origin of metamorphic rocks in the light of physical, chemical and tectonic constraints. Mineralogy, petrography, and textural evolution of representative rock suites. (Prerequisites: 61-231.) (2 lecture, 3 laboratory hours a week.)

**61-323. Stratigraphy**

The principles of lithostratigraphy and biostratigraphy; surface and subsurface stratigraphic methods; concepts of facies; identification and interpretation of sedimentary sequences; stratigraphic maps, including numerical techniques; applications in resource exploration. (Prerequisite: 61-232.) (3 lecture, 3 laboratory hours a week.)

**61-324. Sedimentary Petrology**

A review of the principal depositional environments of clastic and carbonate rocks; discussion of sediment transport processes and the generation of sedimentary structures; textural and mineralogical properties of sediment and sedimentary rocks, including comparison of ancient and modern depositional environments. Economic aspects of sedimentary rocks. Microscopic and laboratory examination of selected sedimentary rock types will be complemented by field work in the local area. (Prerequisite: 61-232.) (2 lecture, 3 laboratory hours a week; field trips.)

**61-326. Quaternary and Glacial Geology**

The occurrence of ice ages, with particular emphasis on the late Cenozoic, the Laurentide and Cordilleran glaciations of Canada during the Quaternary Period. Glacial budgets, processes of ice movement, mechanics of ice erosion, debris entrainment and deposition. Erosive and depositional landforms and landscapes. Periglacial environments and landforms. The origin and nature of tills, stratified drift and other terrestrial, lacustrine and marine deposits. Changes in relative sea level. (Antirequisite: 67-444.) (2 lecture and 2 lab hours per week.)

**61-327. Structural Geology**

Rock deformation; primary and secondary structures; analysis and classification of folds and faults; interpretation of geologic maps; solution of structural problems. (Prerequisite: 61-231.) (3 lecture, 3 laboratory hours a week.)

**61-328. Aqueous and Environmental Geochemistry**

Processes such as water-rock interactions, element cycling, and contaminant mobility in near-surface geologic settings will be studied using the principles of geochemistry, thermodynamics and chemical kinetics. Topics covered in this course will include: the laws of thermodynamics, aqueous complexation, solutions and activities, redox reactions, solubility, phase equilibria and chemical kinetics in natural systems. (Prerequisite: 59-240 or 61-224 or consent of instructor.) (3 lecture and/or tutorial hours per week.)

**61-380. Field Camp II**

Geological mapping methods. An additional fee is charged to defray the costs of accommodation. (Prerequisites: 61-280 and 61-327.) (2 weeks; immediately following the Winter term examination period.)

**61-398. Co-op Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative



education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**61-420. Mineral Deposit Geology**

Geology and genesis of metallic and industrial mineral deposits. Introduction to ore-forming processes and mineral exploration. (Prerequisite: 61-231.) (2 lecture, 3 laboratory hours a week.)

**61-424. Advanced Geochemistry**

The application of trace elements and stable and radiogenic isotopes to understanding and modelling earth processes. Factors governing the fractionation of isotopes and elements in response to the major fluxes of material within the mantle and crust of the earth. Discussion of mantle reservoirs and mantle-crustal evolution models. (Prerequisite: 61-320 or consent of instructor.) (3 lecture and/or seminar hours per week.)

**61-429. Basin Analysis**

Classification of sedimentary basins, pressure-temperature variation, compaction and porosity-permeability distribution, groundwater regime and hydrogeologic environment, fluid-rock interaction, diagenetic reactions, organic matter, mineralization, and basin history. (Prerequisite: 61-232 or consent of instructor.) (3 lecture/seminar hours a week.)

**61-430. Environmental and Engineering Geophysics**

An introduction to the use of seismic, electrical, electromagnetic and other geophysical methods used in near-surface environmental and engineering assessment studies. (2 lecture, 3 laboratory hours a week.)

**61-436. Hydrogeology**

Fundamental physics and properties of groundwater flow in porous geologic material, develops an intuitive, problem-solving approach to hydrogeologic problems. Topics include: groundwater flow equations, flow nets, aquifer pumping, contaminant transport processes, two-phase flow, and dense non-aqueous phase liquids. Computer application will be emphasized. (Prerequisites: 61-141, 62-130 or equivalent, or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

**61-441. Biogeochemistry**

An investigation of global change focusing on the chemical, physical, geological, and biological processes that cycle elements through the Earth's system. Topics covered in this course will include: The origin of Life, global element cycles, mineral weathering and the global CO<sub>2</sub> budget, microbe-water-rock interactions (including: sorption, oxidation-reduction, and methylation of metals; biological degradation of organic molecules; application of molecular biology and stable isotope techniques to environmental problems). (Prerequisites: 61-224 or consent of instructor) (3 lecture and/or tutorial hours per week.)

**61-470. Special Topics in Earth Science**

Selected topics of current interest. (Prerequisite: consent of instructor and a program advisor.) (3 lecture or project hours a week.)

**61-498. Co-op Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**61-499. Thesis**

Each student will be required to carry out a selected research project and write a report under the supervision of a staff member. The student must register in two terms; the grade will be assigned at the end of the second term. (A 6.00 credit hour course.) (Restricted to only Semester 7 or 8 students with a Major G.P.A. of 8.00 or greater.)

**ENVIRONMENTAL SCIENCE**

**66-201. Science, Technology, and Society**

This course is designed to explore the complex inter-relationships between science, technology, and society. The nature of science and scientific method and selected current issues in science and technology will be discussed. Topics may include chemicals in society, biotechnology and related issues, nuclear energy, and the impact of these technologies on society. Technology, as it relates to human values and public awareness, will also be considered. (Not open to Semester 1 and 2 students.) (Antirequisite: 03-200.) (3 lecture hours a week.)

**66-280. Field Methods in Environmental Science**

Field sampling and measurement techniques in the environmental sciences. Special consideration will be given to the measurement, evaluation and reporting of spatial and temporal data and to the collection and interpretation of geochemical data. Required field trips. (Prerequisites: 61-141, 61-224, and 67-100.) (2 weeks, immediately following the winter term examination period.)

**66-499. Thesis Research in Environmental Science**

Each student will be required to carry out an original research project in environmental science and write a report under the supervision of one or more faculty members. The results of the research will also be presented in a public seminar. Students must consult with an Environmental Science counselor prior to enrolling in this course. (A 6.00 credit, two-semester course.) (Restricted to semester 7 and 8 students with a major G.P.A. of 8.0 or higher.)

**PHYSICAL GEOGRAPHY**

**67-100. Introduction to Geomorphology**

The landscapes of the earth, with particular reference to the glaciers, coastlines, rivers, and northern permafrost regions of Canada. (3 lecture hours a week.)

**67-102. Atmosphere and Climate**

An introduction to the atmosphere and the basic principles of meteorology and climatology. Topics include weather systems, atmospheric pollution and inadvertent climate modification, climate change and relationships between climate and living organisms. (3 lecture hours a week.)

**67-200. Principles of Resource Management**

Systems analysis methodologies, scientific theories, ecological approaches, and sustainable resource management principles will be presented to examine the interrelationships governing the availability and cumulative impacts of utilizing both renewable and non-renewable resources. Resource management auditing methods and techniques will be applied for the assessment of several indicators, including carrying capacity, ecological footprints, demographic transition, energy flows, agrosystems, land degradation, air and water quality, deforestation, biodiversity and successional changes. Discussions will also focus on integrative and adaptive resource management techniques and best management practices. (Antirequisite: 42-200.) (3 lecture hours a week.)

**67-205. Introductory Geographical Information Systems**

This introductory course provides an overview of GIS applications, the fundamentals of GIS map projections, measurement levels for geographical data, data sources, data processing, data models, geographic data structures, and GIS editing functions and analysis; GIS project design and digital mapping fundamentals will also be introduced. Laboratory exercises will focus on spatial data characteristics, raster and vector data structures, and digital map creation. This course is designed for students who intend to take only one GIS course. (Those students who wish to take upper year GIS courses should take 67-210 instead of 67-205.) (Antirequisite: 67-210.) (2 lecture, 3 laboratory hours a week.)

**67-210. Principles and Applications of Geographical Information Systems**

This course emphasizes the principles, techniques, and applications of GIS. Lectures and laboratory exercises will focus on how to acquire, store, manipulate, and analyze spatial and non-spatial data. Data conversion, data reformatting, and data base development techniques will be explained. Students will create geographic coverages and learn techniques in the operation of a GIS by completing "hands-on" projects with modern GIS software. (It is recommended that students take 67-246 before taking this course.) (2 lecture, 3 laboratory hours a week.) (Antirequisite: 67-205.)

**67-220. Climatology**

A study of the major climatic elements, with special emphasis on the radiation budget, energy systems, and the hydrological cycle of the earth and the human environment. Climate classification, climatic change, climatological techniques, and aspects of applied climatology also will be examined. (Prerequisites: 67-102.) (2 lecture, 2 laboratory hours a week.)

**67-221. Advanced Geomorphology**

The study of landforms; their origins, structures, external expressions, and spatial arrangement. (Prerequisites: 67-100, or consent of instructor.) (2 lecture, 2 laboratory hours a week.)

**67-246. Introduction to Aerial Photography and Cartography**

Basic concepts involved in cartographic theory and design, including map projections, longitude, latitude and UTM grid systems, and thematic and topographic maps, and the fundamentals of aerial photographs and other remotely sensed data (visible spectrum, infra-red and radar), satellite imagery, photogrammetry and photointerpretation. (2 lecture, 2 laboratory hours a week.)

**67-280. Field Measurement and Mapping Techniques**

Introduction to sediment and water sampling, mapping methods, and field measurements. Interpretation of topographic maps, use of compasses and GPS units. Integration of field data into a GIS. Required field trips. (2 weeks; immediately following the winter term examination period.) (Prerequisites: 61-141, 67-100 and 67-205 or 67-210.)

**67-310. GIS Problem Solving and Spatial Modeling**

This course will concentrate on the utilization of numerical, spatial, and digital elevation models, and integration of all GIS data, including those from air photographs, GPS receivers, and remote sensing satellites. The application of spatial statistics and integration of models in a GIS will be explained. Techniques for using spatial algorithms and modeling toward decision making will be applied. Exercises will provide "hands-on" experience in the use of GIS and models for problem solving in various disciplines. (Prerequisites: 67-210.) (2 lecture, 3 laboratory hours a week.)

**67-320. Watershed Hydrology**

Fundamental processes in physical hydrology that control movement and storage of water within a watershed or catchment basin. Components of the water balance (precipitation, interception, infiltration, evapotranspiration, runoff, storage) and their variations in space and time. Theoretical and practical approaches to measurement and forecasting of components and their linkages. Special consideration of snowmelt, streamflow, wetlands, and human impacts. (Prerequisite: 61-141, or consent of instructor.) (2 lecture, 2 laboratory hours a week.)

**67-332. Issues in Resource and Environmental Systems**

The complexities and nonlinear feedback mechanisms influencing the dynamic interactions between the allocation and utilization of biotic and abiotic resources in the spatial and temporal domains will be addressed within the conceptual framework of resource management paradigms, theories, and analytical methodologies. Contemporary problems and issues in resource and environmental systems will then be critically assessed, and best management practices will be appraised. (Prerequisites: 67-200 or consent of instructor.) (3 lecture and/or tutorial hours per week.)

**67-334. Environmental Impact Assessment**

This course provides an overview of the biogeophysical environment, and introduces peristametrics. The history, theories, and principles of Environmental Impact Assessment (EIA) will be examined and various methodologies for the preparation of an EIA report will be evaluated. Aspects of ethics, environmental laws, and administrative requirements for EIA studies in Canada are considered. EIA case studies are assessed and prepared. (Prerequisite: 67-332 or consent of instructor.) (3 lecture hours a week.)

**67-370. Climate Change**

A study of the causes of climate and climate change. Topics include the record of past climates, projection of future climate based on models incorporating anthropogenic factors, modification of local and regional climates, and the impact of these changes on the natural and human environment. (Prerequisite: 67-220 or consent of instructor.) (3 lecture hours a week.)

**67-402. Remote Sensing**

An integrated course dealing with contemporary principles and applications of aerospace remote sensing. Emphasis will be placed on scanning systems; multispectral sensors; the identification and interpretation of spectral signatures; how the imagery obtained by sensors is analyzed optically or digitally to yield earth resource information; and the manipulation and display of remotely-sensed data. (Prerequisite: 67-246 or consent of instructor.) (2 lecture, 1.5 laboratory hours a week.)

**67-410. Advanced Methods in GIS Analysis**

This course will examine selected advanced GIS analysis methods that are currently used in GIS practice. Each student will conduct an independent literature review and GIS-based project to explore the concepts and practical applications of a current analysis methodology that is related to the student's field of interest. (Prerequisite: Minimum B+ in 67-310 or consent of instructor.) (2 lecture, 3 laboratory hours per week.)

*For course descriptions in Human Geography, see "Geography".*

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## ECONOMICS: COURSES

All courses listed will not necessarily be offered each year. All courses are one-term courses and are offered three hours a week unless otherwise indicated.

### 41-110. Introduction to Economics I

An introduction to microeconomics intended to provide students with the tools necessary to begin to understand and evaluate how resources are allocated in a market economy. Specific topics include how markets function, theories of the business firm, of consumer behaviour and of income distribution. The economic roles of labour unions and government are also covered. The theories are applied to contemporary Canadian economic problems.

### 41-111. Introduction to Economics II

Building upon microeconomics (41-110), this course is an introduction to macroeconomics. The emphasis is upon measuring and explaining what determines economic aggregates such as the total national product (GDP) and the level of prices and employment. The role of money and financial institutions, the impact of international trade and the policy options available to governments for coping with inflation and unemployment are discussed in detail. (Prerequisite: 41-110.)

### 41-117. Introductory Economics: Theory, Practice and Policy

A calculus-based introduction to microeconomics with emphasis on practical applications, problems and public policy. The course is designed primarily for Engineering students. (Prerequisites: Mathematics 62-140 and 62-141, or equivalent.) (3 lecture hours, 1 tutorial hour a week.) (Students who have taken 41-117 may not obtain credit in 41-110, but may take 41-111 with permission of an advisor in Economics.)

### 41-212. Intermediate Statistical Methods

An application of statistical methods to economic theory. (Prerequisite: one of 02-250, 65-250, 65-205, or 73-105.) (Credit will not be given for more than one of 41-212, 65-251, or any equivalent intermediate statistics course from another area.)

### 41-221. Intermediate Microeconomics I

The theory of markets, the theory of consumer behaviour and demand; the firm, production, cost, and supply. (Prerequisite: 41-110.)

### 41-222. Intermediate Microeconomics II

Extensions of the theory of consumer and firm behaviour; pricing under different market structures; distribution; general equilibrium and economic welfare. (Prerequisite: 41-221.)

### 41-231. Intermediate Macroeconomics I

A theoretical and policy oriented treatment of the determination of employment, output, interest rates, and the price level; stabilization policies and their effectiveness. (Prerequisites: 41-110 and 41-111.)

### 41-232. Intermediate Macroeconomics II

Effectiveness of stabilization policies in open economies; causes and cures of inflation; simple growth models. (Prerequisite: 41-231.)

### 41-266. Selected Issues in Economics

(Prerequisites: 41-110 and 41-111.)

### 41-310. Environmental and Resource Economics

An examination of economic behaviour in renewable and non-renewable resource markets and an economic treatment of policy issues related to environmental quality and common property resources. (Prerequisite: 41-221, or the combination of 41-110 and one of 62-130 or 62-140.)

### 41-313. Introduction to Econometric Methods I

Development of the classical regression model and problems associated with this model such as multicollinearity, heteroscedasticity, and autocorrelation. (Some familiarity with linear algebra and calculus will be beneficial.) (Prerequisites: 02-250 or 65-205, 41-212, and 62-120.)

### 41-323. Advanced Microeconomics I

The use of mathematical techniques and economic analysis with special emphasis on consumer theory, producer theory, and theory of markets. (Prerequisites: 41-221, 41-222, 62-140, and 62-141 or consent of instructor.)

### 41-330. Economics Analysis of Law

The application of microeconomic principles to the study of property, contract, and tort law. The economic principles underlying property rights, torts, and contracts are surveyed. Selected problems in property, tort, and contract law are considered. Additional topics from other areas of law may be included. (Prerequisite: 41-221.)

### 41-331. The Economics of Legal Procedures, Crime, and Punishment

The application of microeconomic principles in the analysis of legal procedures, crime, and punishment. Economic models of filing suit, bargaining, and going to trial will be discussed. Traditional and economic models of criminal activity will be compared and contrasted, along with the economics of civil and criminal punishment. Additional topics from other areas of law may be included. (Prerequisite: 41-221.)

**41-333. Advanced Macroeconomics I**

Modern interpretations of macroeconomics, including inflation, unemployment, and policy implications. (Prerequisites: 41-231, 41-232, 62-140, and 62-141, or consent of instructor.)

**41-335. Money and Banking**

The banking system and other financial institutions; money demand and money supply; money and the level of economic activity; money and inflation; issues in monetary policy. (Prerequisite: 41-231.)

**41-341. Economic Growth and Development Theory**

Modern theories of growth and development with emphasis upon less developed countries. (Prerequisites: 41-221 and 41-231, or consent of instructor.)

**41-350. Labour Theory**

Wage theories, wage structure, unemployment, labour supply and related topics. (Prerequisite: 41-221.)

**41-353. Labour Institutions**

Canadian and American labour movements, collective bargaining, union philosophy and labour legislation in Canada and the United States. (Prerequisite: 41-221 or consent of instructor.)

**41-360. Cost-Benefit Analysis**

The techniques and application of cost-benefit analysis to public sector policies and projects. Topics include the welfare foundations or cost-benefit analysis, investment decision rules, the choice of a social discount rate, risk and uncertainty, shadow pricing of inputs and outputs, public sector pricing and the assessment of the value of intangibles such as time, life and noise. (Prerequisite: 41-221, or the combination of 41-110 and one of 62-130 or 62-140.)

**41-373. International Economics: Trade Theory and Policy**

A survey of traditional and contemporary theories of international trade and trade policy. (Prerequisite: 41-221.)

**41-374. International Economics: Exchange Rates and Balance of Payments**

Theory of exchange rate determination and balance of payments adjustment; macroeconomic policy in an open economy; current problems of the international monetary system. (Prerequisite: 41-231.)

**41-380. Game Theory**

The study of strategic interactions among decision makers. Equilibrium concepts, such as Nash equilibrium, sub-game perfect equilibrium, etc, will be introduced and their applications to economic, political and biological decision making will be discussed. (Prerequisite: 41-221 or the combination of 41-110 and 62-140.)

**41-385. Public Sector Economics: Expenditure**

Theory of the role of government in the economy; public expenditure theories and practice; public choice and government decision-making; government grants. (Prerequisites: 41-221 and 41-222.)

**41-386. Public Sector Economics: Finance**

Government taxation, user charges, borrowing, and the public debt in theory and practice; use of taxation as fiscal policy; and intergovernmental tax relations. (Prerequisites: 41-221 and 41-222.)

**41-406. Mathematical Economics**

Various topics, such as general equilibrium theory, dynamic analysis, oligopoly, behaviour under uncertainty, and growth theory. (Prerequisites: 41-222, 41-232, 62-120, 62-140, and 62-141.)

**41-407. Senior Research Workshop**

This course is intended to develop independent research and presentation skills. Students will be assigned a topic (or topics). Students will be expected to conduct a literature survey, collect data, present data in a descriptive format, formulate and carry out formal econometric tests. Students will be assessed on the basis of classroom presentations classroom discussion and written assignments. (Prerequisites: 41-414, 41-323 and 41-333.) (This course is open to students who are enrolled in an Honours Economics program.)

**41-414. Introduction to Econometric Methods II**

A continuation of 41-313. (Prerequisite: 41-313.)

**41-416. Economic Research in Regional Problems**

Theoretical development and empirical implementation of interregional income determination systems; regional input-output models; growth models. (Prerequisite: consent of instructor.)

**41-420. Industrial Organization Theory**

A theoretical analysis of firms' behaviour in many different markets. (Prerequisites: 41-221 and 41-222.)

**41-424. Advanced Microeconomics II**

Selected topics in microeconomic theory. (Prerequisite: 41-323.)

**41-434. Advanced Macroeconomics II**

Selected topics in macroeconomic theory. (Prerequisite: 41-333.)

**41-499. Selected Topics in Economics**

(May be repeated for credit with consent of an advisor in Economics.) (Prerequisite: consent of the instructor.)

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## EDUCATION: PRE-SERVICE COURSES

*Pre-Service courses may extend over one or two terms.*

### 80-200. Religious Education in Roman Catholic Schools

This course is provided for those preparing themselves for the ministry of teaching in the Roman Catholic Schools of Ontario. This course is open to all Education students. This course offers prospective teachers the opportunity: 1) to reflect, in an adult context, upon the significance of their faith and faith growth for themselves and their students; 2) to gain a theological background for an introduction to Religious Education. (16 hour course.)

### 80-203. Psychology in Education

Psychology applied to teaching: child growth and development, the learning process, mental health, learning and adjustment problems in the environment. (32 hour course.)

### 80-204. Differentiated Instruction for Students with Special Needs

This course provides an introduction to the field of special education in the Canadian context, focusing on background knowledge needed by teachers to address diverse learning needs in inclusive classrooms. The course surveys the learning needs of children and adolescents with both high and low incidence exceptionalities, and highlights methods of differentiating classroom instruction to meet their individual needs, as well as approaches for remedial assistance for specific learning difficulties. (32 hour course.)

### 80-205. Educational Foundations, Law and Ethics

This course focuses on provincial legislation and policies and explores the significance of professional learning and ethical conduct that involves understanding a range of educational philosophies and pedagogical approaches. (32 hour course.)

### 80-207. Introduction to Issues in Education

An introduction to critical reflection and analysis of such educational issues as: the reflective teacher, ethnic and religious pluralism in public schooling, and moral and values development. This course addresses the varieties of students who enter the classroom in terms of their diverse social origins, cultures, identities, and social status. It engages participants in an examination of the purposes of education, education policy, and of teacher's responsibility to work productively with school colleagues and other adults to achieve equitable access, experiences, and outcomes for all students. (32 hour course.)

### 80-311. Visual Art Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching visual arts. (16 hour course.)

### 80-312. Instructional Technology

An introduction to instructional technology and its integration into the elementary curriculum, including detailed study and application of teaching practices and curriculum planning. (16 hour course.)

### 80-313. Health and Physical Education Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching health and physical education. (16 hour course.)

### 80-314. Language Arts Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching language arts. (32 hour course in Consecutive; 24 hour course in Concurrent.)

### 80-315. Mathematics Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching mathematics. (32 hour course in Consecutive; 24 hour course in Concurrent.)

### 80-316. Music Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching music. (16 hour course.)

### 80-317. Science Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching science. (16 hour course.)

### 80-318. Social Studies Methodology

An introduction to the growth, development, and learning of children from Junior Kindergarten to grade 6 with an emphasis on instructional practices and curriculum planning for teaching social studies. (16 hour course.)

### 80-319. Issues in Education

An introduction to critical reflection and analysis of social, cultural and political issues in education. (16 hour course.)

### 80-321. Visual Art Methodology

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching visual art. (12 hour course.)

**80-322. Instructional Technology**

An introduction to instructional technology and its integration into the elementary curriculum (grades 4 to 8), including detailed study and application of teaching practices and curriculum planning. (16 hour course.)

**80-323. Health and Physical Education Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching health and physical education. (12 hour course.)

**80-324. Language Arts Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching language arts. (16 hour course.)

**80-325. Mathematics Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching mathematics. (16 hour course.)

**80-326. Music Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching music. (12 hour course.)

**80-327. Science Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching science. (12 hour course.)

**80-328. Social Studies Methodology**

An introduction to the growth, development, and learning of children from grades 4 to 8, with an emphasis on instructional practices and curriculum planning for teaching social studies. (12 hour course.)

**80-330. Topics in IS Methodology**

An examination of curriculum planning and integration, lesson planning, assessment and evaluation, and active learning instructional practices appropriate to teaching grades 7 and 8. (8 hour course, Consecutive program only.)

**80-331. Visual Art Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching visual art. (12 hour course.)

**80-332. Instructional Technology**

An introduction to instructional technology and its integration into the secondary curriculum, including detailed study and application of teaching practices and curriculum planning. (16 hour course in Consecutive; 12 hour course in Concurrent.)

**80-333. Health and Physical Education Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching health and physical education. (12 hour course.)

**80-334. Language Across the Curriculum**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching language arts across the curriculum. (12 hour course.)

**80-335. Mathematics Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching mathematics. (12 hour course.)

**80-336. Music Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching music. (12 hour course.)

**80-337. Science Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching science. (12 hour course.)

**80-338. Social Studies Methodology**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on instructional practices and curriculum planning for teaching social studies. (12 hour course.)

**80-339. Career and Guidance Education**

An introduction to the development and learning of students in grades 7 to 8 with an emphasis on career and guidance education. (12 hour course, Consecutive program only.)

**80-340. Integrated Theme Project**

This course provides teacher candidates with experience collaborating on the development of a sequence of learning activities designed to meet Ministry expectations for grades 7 or 8 in at least three subject areas. (12 hour course,



Consecutive program only.)

### **80-352 to 80-380. Junior - Intermediate, Intermediate - Senior Methods**

These courses provide a more detailed study and application of the aims and teaching procedures of specific subjects in the Junior-Intermediate and Intermediate-Senior concentrations. Intermediate-Senior candidates must select two courses from the [Table of Options](#). Junior-Intermediate candidates must select one. (48 hour course.)

### **80-386. Curriculum Development for Technological Studies Part I**

An introduction to the theory and practice of curriculum development for Broad-Based Technology programs in secondary schools. The course uses a constructivist approach to promote integrated learning and broad-based technology approaches through activities that lead to the development of unit plans, a course of study, a project outline, a student learning module and a course portfolio. Thematic and project-based strategies are used to address the learning expectations outlined in curriculum guidelines and policy documents and provide a variety of student learning styles, teaching approaches, and assessment and evaluation strategies. Shop safety and workplace safety are themes infused throughout the course. (Offered in two parts in successive summers, 32 hour course.)

### **80-387. Curriculum Development for Technological Studies Part II**

An introduction to the theory and practice of curriculum development for Broad-Based Technology programs in secondary schools. The course uses a constructivist approach to promote integrated learning and broad-based technology approaches through activities that lead to the development of unit plans, a course of study, a project outline, a student learning module and a course portfolio. Thematic and project-based strategies are used to address the learning expectations outlined in curriculum guidelines and policy documents and provide a variety of student learning styles, teaching approaches, and assessment and evaluation strategies. Shop safety and workplace safety are themes infused throughout the course. (Offered in two parts in successive summers, 32 hour course.) (Prerequisite: 80-386.)

### **80-388. Principles and Methods of Teaching Technological Studies Part I**

This course is an introduction to the methodology and processes of facilitating learning in the Broad-Based Technological Education classroom. The course will provide opportunities to apply pre-instructional planning, instruction and classroom management skills, ongoing and post-instructional assessment and evaluation strategies. Emphasis is on course activities that will focus on teaching and learning theories, the dynamics of team and group learning, and the development of written and oral communication skills. Course activities include lesson planning, team practice teaching, report writing, seminar presentations, and the development of video and print student learning modules. (Offered in two parts in successive summers, 32 hour course.)

### **80-389. Principles and Methods of Teaching Technological Studies Part II**

This course is an introduction to the methodology and processes of facilitating learning in the Broad-Based Technological Education classroom. The course will provide opportunities to apply pre-instructional planning, instruction and classroom management skills, ongoing and post-instructional assessment and evaluation strategies. Emphasis is on course activities that will focus on teaching and learning theories, the dynamics of team and group learning, and the development of written and oral communication skills. Course activities include lesson planning, team practice teaching, report writing, seminar presentations, and the development of video and print student learning modules. (Offered in two parts in successive summers, 32 hour course.) (Prerequisite: 80-388.)

### **80-497. Internship**

The Internship consists of 100 hours of skills upgrading along with a number of assignments related to the selected discipline. It allows candidates to deepen and broaden their skills and knowledge in their selected area of technological education. A technology skills profile will be used to track the range and level of skills of each candidate. The Program Coordinator for the Technological Education program will work with Board-based Technological Program Consultants across the province to select teacher advisors who will support teacher candidates during their Internship period. The Technological Program Consultants will be responsible for evaluating teacher candidates during their Internship.

### **80-498. Practicum**

The practicum consists of two main components: orientation to schools, with a focus on school culture and school community; and classroom practice related to the candidate=s specific discipline. Teacher candidates are assigned, during Fall and Winter practicum sessions, to schools or other settings approved by the Ontario College of Teachers, for a minimum of sixty days of combined observation and practice related to these components. As well, candidates will do 100 hours of pedagogical workshops, courses or seminars, offered by the Board. The Technological Program Consultant will sign off on this training. Candidates would be required to visit schools that offer their discipline. The Technological Program Coordinator will set up the school visits and the Board will pay for teacher coverage during their absence from regular teaching.

### **80-491, 492, 493, 494 and 499. Practice Teaching**

Directed observation and practice teaching is provided through a series of field experiences. Primary-Junior candidates will normally be placed in Grades K to Six inclusive; Junior-Intermediate candidates will normally be placed in Grades Four to Ten inclusive; Intermediate-Senior candidates will be placed in Grades Seven to Twelve inclusive.

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### In-Service Courses

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For a complete description of all In-Service courses and registration procedures, please visit the Faculty of Education website at [www.uwindsor.ca/edfac](http://www.uwindsor.ca/edfac).

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## FACULTY OF ENGINEERING: GENERAL COURSES

### GENERAL ENGINEERING

#### 85-111. Engineering Mechanics I

Statics of particles and rigid bodies; trusses, frames, machines; centroids and centres of gravity; friction. (2 lecture, 2 tutorial hours a week.)

#### 85-118. Professional Development

The practice of engineering in various disciplines; career development; administrative processes in the profession; ethical considerations; the relationship of engineering to society. Responsibility of professional engineers for public health and safety in the workplace. Fundamentals of expository writing, including types of exposition, planning, organization, format and style, résumé preparation, engineering reports, and other forms of written communication. Assignments using word processing. (2 lecture hours a week.)

#### 85-122. Engineering Mechanics II

Kinematics of particles; kinetics of particles: Newton's Second Law, work-energy and impulse-momentum methods; moments of inertia of areas and masses; kinematics of rigid bodies, plane motion. (3 lecture, 2 tutorial hours a week.)

#### 85-124. Circuit Analysis I

Electric charge, electric fields and potentials; conduction, resistivity, circuit variables, ideal sources and components; diodes; simple resistive circuits; techniques of circuit analysis, mesh and node analysis; network theorems, Thevenin and Norton theorems; source transformations; operational amplifiers, circuits, analysis and applications; inductance, capacitance; computer-oriented solution methods using SPICE and MATLAB. (3 lecture, 2.0 laboratory/tutorial hours or equivalent a week.)

#### 85-130. Graphical Communications

A course in the fundamentals of engineering graphic communication, including the following: orthographic projection; isometric drawing and sketching; single and double auxiliary views; sections and conventions; dimensioning; reading engineering drawings and prints; the fundamentals of descriptive geometry; introduction to computer graphics. (1 lecture hour, 3 laboratory hours a week.)

#### 85-131. Computer-Aided Design

Design project organization, design methodology, needs validation, problem identification and definition, modern problem-solving techniques, effective oral and written communication. Design evaluation using criterion functions. Application to major projects. (2 lecture, 2 laboratory hours a week.)

#### 85-132. Computer-Aided Analysis I

Introduction to simple engineering problems and the application of digital computers to analyze these problems; use of MATLAB in engineering computations; introduction to various computer programming languages, with emphasis on C. (2 lecture, 2 tutorial hours a week.)

#### 85-198. Work Term I

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course may not be allowed to remain in the co-op program.)

#### 85-211. Computer-Aided Analysis II

Introduction to object oriented programming using C++. Numerical schemes including: Gauss-Jordan Method for solving Linear Simultaneous Algebraic Equations; Matrix inversion; Root finding using the Newton-Raphson and the half-interval methods; Lin-Bairstow method for Roots of Polynomials; Least-squares fitting; Numerical Integration using the Trapezoidal and Simpson's 1/3 rule; Solution of Ordinary Differential Equations of any order using Euler, Improved Euler and the fourth-order Runge-Kutta methods. Class development in C++ for numerical schemes covered in the course. (Prerequisite: 85-132, or 60-141.) (3 lecture, 1.5 tutorial hours a week.)

#### 85-212. Thermodynamics I

An introductory thermodynamics course in which fundamental principles are developed. Included are ideal gas relations, properties of pure substances, First Law for closed and steady flow systems, the Second Law with entropy relations, and an introduction to cycles. (3 lecture, 1.5 tutorial hours a week.)

#### 85-214. Circuit Analysis II

Inductance, capacitance and mutual inductance; natural response of first-order RL and RC circuits; natural and step response of RLC circuits; state equation formulation, numerical solutions; sinusoidal steady-state analysis; sinusoidal steady state power calculations; balanced three-phase circuits; unbalanced three-phase transient analysis; Fourier series; discrete Fourier transform; frequency domain analysis; network simulations using SPICE and MATLAB. (Prerequisite: 85-124.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### 85-217. Engineering Mechanics of Deformable Bodies I

An introduction to stress, strain, and stress-strain relations, and a brief discussion of mechanical properties and types of loads. A study of members subjected to axial load, flexure, and torsion. (Prerequisites: 85-111 and 62-140.) (2 lecture, 2 laboratory/tutorial hours a week.)

**85-219. Introduction to Engineering Materials**

This course explains how the properties of solid materials are derived and are related to their basic crystallographic and electronic structures: Metals, ceramics, polymers, and electronic materials are covered. (3 lecture, 2 laboratory or tutorial hours a week.)

**85-222. Engineering Treatment of Experimental Data**

Treatment of engineering data using the concepts of frequency distribution; measures of central tendency and dispersion. Probability; random variables; discrete and continuous distributions. Tests of hypotheses; estimation; goodness-of-fit test; linear regression and correlation. Applications using computers in engineering design problems, quality control, and manufacturing processes. (Prerequisite: 62-140.) (3 lecture hours, 1 tutorial hour a week.)

**85-224. Technical Communications**

Effective oral communication techniques and approaches, including informative presentations, persuasive presentations, and the use of visual aids (computer projected/slides) for conveying technical/engineering information. Written engineering communication including: abstracts, formal letters, figures, tables, references, proposals and technical reports. Introduction to literature research techniques. The main objective is to introduce consciousness and clarity into all forms of communications. (2 lecture, 1 tutorial hours a week.)

**85-233. Fluid Mechanics I**

Fluid properties and basic concepts, fluid statics, equations of motion, one dimensional flows, flows in pipes in series, parallel and networks, dimensional analysis and similitude. (3 lecture hours, 1 tutorial hour a week.)

**85-298. Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course may not be allowed to remain in the co-op program.)

**85-313. Engineering Economy**

Cost estimation, cost accounting, and cost control. Comparison of engineering alternatives by annual cost, present worth, and rate of return methods. Depreciation and taxes. Equipment replacement. (3 lecture, 1.5 tutorial hours a week.)

**85-398. Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course may not be allowed to remain in the co-op program.)

**85-421. Engineering and Society**

The technology-society relationship in a historical context; the nature of technological change and its consequences; the engineer's role in the control of technology and sustainable development; the responsibility of engineers for health and safety in the workplace, including OHS, WHMIS. The development of the engineering profession; professional registration and the code of ethics; the duties and responsibilities of engineers; the engineer and the law. (Restricted to fourth-year students.) (3 lecture hours a week.)

**85-498. Work Term IV**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course may not be allowed to remain in the co-op program.)

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Surveying</b>  A course in plane surveying, which includes the following sections: distance and angular measurement; differential and trigonometric levelling. All aspects of traversing; area determination; stadia work; curves; and earth work will be covered. A complete set of practical field work problems will supplement lectures. (3 lecture, 3 laboratory hours a week.)</p> <p><b>87-227. Engineering Mechanics of Deformable Bodies II</b>  A study of flexure and deflection of beams, eccentric loads, connections, experimental determination of principal stresses, buckling of columns, and additional topics. Statically indeterminate problems and inelastic response are also studied. (Prerequisite: 85-217.) (2 lecture, 2 laboratory/tutorial hours a week.)</p> <p><b>87-310. Structural Analysis I</b>  Stability and determinacy of trusses and frames; analysis of statically determinate trusses and frames; influence lines and moving loads. Deflections: conjugate beam method; virtual work; Castigliano's theorems; Maxwell-Betti reciprocal theorem. Cables and suspension bridges. Matrix methods for indeterminate trusses. Approximate methods for indeterminate trusses and frames. (Prerequisite: 87-227.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>87-311. Concrete Design I</b>  Components and proportioning of concrete mixes. Mechanics and behaviour of reinforced concrete components. Analysis and ultimate strength design of reinforced concrete beams and one-way slabs. Laboratory work includes design and testing of a concrete beam. (Prerequisite: 87-227.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>87-313. Fluid Mechanics and Hydraulics</b>  Continuity, energy, momentum concepts. Boundary layers. Pipe flow including network installations. Rotodynamic pumps, system curves. Irrotational flow, flownets. Open channel flow: specific energy, flow regimes; uniform, gradually and rapidly varied flows; surface profiles. (Prerequisite: 85-233 or consent of the instructor/Department Head.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>87-314. Transportation and Traffic Engineering</b>  Characteristics of transportation systems; rail, highway, airway, waterway, and pipeline; evaluation of transportation projects and systems, urban transportation analysis and prediction, traffic studies, highway and intersection capacity, characteristics of traffic flow, traffic control principles. (2 lecture, 2 laboratory hours a week.)</p> <p><b>87-315. Soil Mechanics</b>  Index properties of soils. Soil structure and classification of soils. Soil compaction and stabilization. Hydraulic principles of flow through soils, flow nets. Frost action in soils. Effective stresses. Compressibility, consolidation, and settlement analysis. (Prerequisite: 87-227.) (3 lecture, 1.5 laboratory hours a week.)</p> <p><b>87-322. Concrete Design II</b>  Analysis and design of columns, two-way slabs, and footings. Analysis and design of components of a building. Introduction to prestressed concrete. (Prerequisite: 87-311.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>87-323. Hydrology I</b>  Weather. Precipitation: intensity, frequency, duration; rational methods. Hydrologic abstractions. Runoff: storms, unit graph principles, inflow design hydrograph. Streamflow: gauging, stage-discharge. Reservoir flood routing. Snowmelt. Probability applications and frequency analysis of floods. Subsurface flow: seepage from rivers and canals, water wells. (Prerequisites: 85-222 and 87-313 or consent of the instructor/ Department Head.) (3 lecture, 2 laboratory hours a week.)</p> <p><b>87-324. Structural Steel Design</b>  Development of loads and specifications using Limit States Design. Design of structural components subjected to axial force, shear force, bending moment, and combined bending and compression. Composite beams are also considered. Design of simple bolted and welded connections. Other steel design topics. (Prerequisite: 87-227.) (3 lecture, 2 tutorial hours a week.)</p> <p><b>87-325. Planning and Construction Management</b>  The planning portion of this course will cover the elements of proper urban planning, the Planning Act, official plans, zoning by-laws, and subdivision design guidelines. The construction management portion will cover construction industry characteristics; types of business ownerships; organizational structures; drawings and specifications; estimating and bidding; types of construction contracts; insurance, bonding and claims; financial considerations; project cost controls and scheduling; project planning and administration; computer applications in construction industry, quality assurance, and construction safety. (3 lecture, 3 tutorial hours a week.)</p> <p><b>87-326. Geotechnical Engineering</b>  Shear strength of soil. Stress distribution in soil and displacements. Stress analysis and stability of slopes. Earth pressure and design of retaining walls. Sheet-pile walls, braced and tie back excavations. Combined pressures. (Prerequisites: 87-227 and 87-315.) (3 lecture, 2 laboratory hours a week.)</p>
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#### **87-401. Capstone Design Project**

A significant design experience which is based on knowledge and skills acquired in earlier course work. Engineering design integrates mathematics, basic science, engineering sciences and complementary studies in developing elements, systems and processes to meet specific needs while considering economic, health, safety, environmental, social or other pertinent factors. Written and oral reports are required. (Prerequisite: consent of the supervisor and Department Head.) (2 hours lecture and 4 hours lab/week (2 terms).) (A 8.00 credit hour course)

#### **87-410. Structural Analysis and Design II**

Statical determinacy and indeterminacy; structural stability; review of determinate structures; linear and nonlinear behaviour; principle of superposition; statically indeterminate structures; classical methods of structural analysis; consistent deformation and virtual work methods; flexibility method; slope deflection method; stiffness method; computer-aided analysis of structures; influence lines and moving loads; limit state design concepts; load factors and combinations; load specifications for structural design calculations; plastic analysis of steel structures. (Prerequisite: 87-310.) (3 lecture, 2 tutorial hours a week.)

#### **87-412. Hydraulics I**

Review of basic concepts. Design of open channels with non-erodible and erodible beds; steady gradually varied flow computations in prismatic and non-prismatic channels; computer methods including HEC2. Design of hydraulic structures including gravity and arch dams, spillways, and outlet structures. (Prerequisite: 87-313.) (3 lecture, 2 laboratory hours a week.)

#### **87-414. Highway Design and Construction**

Geometric design of highways; drainage; highway soil engineering including soil stabilization; bituminous materials; rigid and flexible pavement design; construction of pavements. (Prerequisite: 87-227.) (2 lecture, 2 laboratory hours a week.)

#### **87-421. Structural Analysis III**

Energy methods of structural analysis. Matrix methods of structural analysis. Development of computer programs for the general analysis of frames. Introduction and use of commercial programs of analysis. Cold-formed steel structures. (Prerequisites: 87-322 and 87-324.) (2 lecture, 2 laboratory hours a week.)

#### **87-422. Structural Design III**

Review of: Limit States Design in steel; design for tension, compression, and flexural members. Design of: beam-columns; plate girders; composite structures; and connections. Design of an industrial building. (Prerequisite: 87-410.) (2 lecture, 2 laboratory hours a week.)

#### **87-423. Design in Timber and Masonry**

A discussion of the properties of timber, wood products, and factors affecting the strength of wood structures. Design for axial, bending and combined loads. Design of wood structures. An introduction to masonry materials and their properties. Design of masonry units for axial, flexural, and combined loads. Selected design topics. (Prerequisites: 87-227 and 87-322.) (2 lecture, 2 laboratory hours a week.)

#### **87-428. Foundation Engineering**

Soil bearing capacity. Soil exploration. Load induced pressures and settlements. Footings and eccentrically loaded foundations. Raft and pile foundations. Piles and pile driving, cofferdams and caissons. (Prerequisite: 87-326.) (2 lecture hours, 1 laboratory hour a week.)

### **ENVIRONMENTAL ENGINEERING**

#### **93-224. Introduction to Environmental Engineering**

Pollution and the environment. Environmental quality objectives, standards, and guidelines. Material balance techniques as applied to environmental processes. Introduction to environmental pollution control methods and environmental impact assessment. (3 lecture, 3 laboratory hours a week.)

#### **93-312. Thermodynamics**

Real gas behaviour and equations of state. The First and Second Laws of Thermodynamics and their applications. Solution properties and physical equilibria. (Prerequisite: 93-224 or consent of instructor.) (3 lecture hours, 2 tutorial hours a week.)

#### **93-314. Environmental Chemical Analysis**

Important characteristics of air, water, wastewater, and solid wastes. Basic concepts in quantitative analysis of physical, chemical, and biological parameters. Instrumental methods of analysis for organic and inorganic contaminants in air, water, and soil. (Prerequisite: consent of the instructor.) (3 lecture, 2 laboratory hours a week.)

#### **93-321. Transport Phenomena**

Introduction to the unifying theory of transport phenomena. Estimation of viscosities and diffusivities for gases and liquids. Shell balances and some studies of momentum, energy and mass-transport. Mass transfer applications involving examples relevant to the environment. (3 lecture, 2 tutorial hours a week.)

#### **93-322. Occupational Hygiene and Safety**

Provincial and federal regulations, environmental stressors, toxicology of contaminants, surveys of workplaces, measurements of airborne contaminants, design of engineering controls. (3 lecture, 2 laboratory hours a week.)

#### **93-328. Air Pollution Control**

Regulations and methods of source testing and monitoring. Dispersion modelling. Air pollution control methods, designs,

and their relative effectiveness. (3 lecture, 2 lab/tutorial hours per week.)

**93-409. Capstone Design Project**

A significant design experience which is based on knowledge and skills acquired in earlier course work. Engineering design integrates mathematics, basic science, engineering sciences and complementary studies in developing elements, systems and processes to meet specific needs while considering economic, health, safety, environmental, social or other pertinent factors. Written and oral reports are required. (Prerequisite: consent of the supervisor and Department Head.) (2 lecture, 4 lab/tutorial hours per week (2 terms).)  
( A 8.00 credit hour course.)

**93-413. Water Distribution and Wastewater Collection Systems**

Quantities of water and wastewater; development of surface and groundwater sources; design, construction, and maintenance of water distribution systems; design, construction, and maintenance of wastewater collection systems. (Prerequisite: a course in fluid mechanics or hydraulics.) (3 lecture, 2 laboratory hours a week.)

**93-414. Solid Waste Management**

The study, characterization, and analysis of municipal and industrial solid waste systems. Waste reduction, reuse, and recycling. Managing, collecting and transporting solid wastes. Waste reclamation and disposal methods, including landfilling, incineration, and composting. Waste management policies, regulations and facility siting issues. Various assignments will be integrated into a comprehensive project. (Prerequisite: 93-224.) (3 lecture hours.)

**93-426. Water and Wastewater Treatment**

Wastewater disposal practices and their impacts on ecology. Design of different unit operations and processes in water and wastewater treatment. (Prerequisites: 93-224 and a course in fluid mechanics or hydraulics.) (2 lecture, 2 laboratory hours a week.)

**93-428. Environmental Assessment**

Environmental impact assessment. Biophysical and socioeconomic impacts from engineering activities, processes, and projects. Human health and environmental risk concepts. Introduction to life cycle analysis, corporate/industrial environmental management, and environmental management systems. Students will undertake various project related and problem-based assignments. (Cross-listed as 92-428.) (3 lecture, 2 tutorial hours a week.)

**93-430. Environmental Engineering Microbiology**

Nature of inorganic and organic pollutants; biological approaches to environmental pollution problems; microorganisms; nutritional requirements and growth; metabolic pathways; energy generation and utilization in biological systems; response to changes in environment; pathogenic microorganisms and disinfection. (3 lecture hours a week.)

**93-438. Chemical Reaction Engineering**

Classification of chemical reactions and reactors, the rate equation, ideal reactor concept. Design equations for batch and flow (CSTR and PFR) reactors. Multiple reaction and reactor systems. Reactor design calculations under isothermal and non-isothermal conditions. (3 lecture, 2 tutorial hours a week.)

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Digital Logic Design I</b>                  Boolean algebra and logic gates; simplification of Boolean functions; arithmetic operations; analysis and design of combinatorial logic circuits with SSI, MSI, and LSI; sequential logic components; registers; counters and memory units; analysis and synthesis of sequential synchronous and asynchronous networks. (Prerequisite: 85-124 or 64-141, or equivalent.) (3 lecture, 1.5 laboratory hours a week.)</p> <p><b>88-224. Signals and Systems</b>                  Discrete and Continuous-Time Signals and Systems, Discrete and Continuous-Time Linear Time-Invariant Systems, System Analysis in Time Domain, System Analysis in Frequency Domain, Convolution, Differential Equation Models, Fourier series, the Fourier Transform, the Laplace Transform and its Applications, Sampling of Systems. (Prerequisite: 85-214.) (3 lecture, 1.5 laboratory hours a week.)</p> <p><b>88-225. Physical Electronics</b>                  Free electron theory of metals; Fermi level, work function; resistivity; band theory of solids, Fermi-Dirac distribution, density of states; semiconductors, donor and acceptor states; Hall effect; semiconductor devices, field-effect transistors; dielectric materials and devices; magnetic materials; energy storage; Lasers; superconductivity. (Prerequisites: 85-214 and 64-220.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-226. Electronics I</b>                  Examples of electronic systems, Frequency spectrum of periodic and non-periodic signals; Network Theorems; Step-response and frequency characteristics of STC circuits. Operational amplifiers; Examples of Op Amp Circuits: Non-inverting and inverting configurations, Difference Amplifier, Negative impedance converter, Voltage-to-Current converter, General Impedance converter and other circuit applications of Op Amps. Non-ideal performance of Op Amps. Diodes, Varactors; Zener Diodes. Analysis of Diode Circuits, Rectifiers, Super-Diode Circuits, Precision Rectifiers, Limiters and Comparators. Schmidt trigger. Waveform Generators. (Prerequisite: 85-124; Co-requisite: 88-224.) (3 lectures, 1.5 Laboratory/tutorial hours or equivalent per week.)</p> <p><b>88-228. EM Waves and Radiating Systems I</b>                  Electricity and magnetism; time varying fields and Maxwell's equations; introduction to electromagnetic waves; analysis techniques for distributed parameter electrodynamic systems; traveling waves and reflections; transmission line modeling; matching network design and "Smith Chart" techniques; waveguides; propagation; radiating systems. (Prerequisite: 64-220.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-313. Electromechanical Systems</b>                  Machinery principles; transformers; AC machinery fundamentals; synchronous generators; synchronous and induction motors; DC machinery fundamentals; DC motors; electromechanical energy conversion; three-phase concepts; special-purpose motors. (Prerequisites: 85-214 and 88-225.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-316. Electronics II</b>                  Analog amplification; small-signal modeling of analog circuits; differential-amplifier topology; BJT, MOSFET and JFET differential amplifiers; frequency response and time-dependent circuit behavior; feedback and stability; multistage and power amplifiers; active filters and oscillators; use of CAD in modern transistor circuit design. (Prerequisite: 88-226.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-324. Control Systems I</b>                  State variable description of linear systems; controllability and observability; time and frequency domain control techniques; nonlinear control systems; discrete-time systems; introduction to optimal control; the use of analog and digital devices and computers in control theory and practice. (Corequisite: 88-313.) (3 lecture, 1.5 laboratory hours or equivalent a week.)</p> <p><b>88-327. Microprocessors</b>                  Microprocessor systems and architecture; pipelining; arithmetic units; memory structures; addressing modes; typical instruction sets; accumulator and memory reference instructions; stacks, subroutines, and other instructions; interrupts and timing; interfacing I/O devices; interfacing data converters; software development systems and assemblers; microcontrollers. (Prerequisite: 88-217.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-329. Analog Communications</b>                  Analog communication systems; information measure; signals and noise; Fourier transform and spectra; bandwidth of signals; analog modulation and demodulation systems; AM, FM, TV transmitters and receivers, detector circuits. (Prerequisite: 85-214.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-330. Digital Logic Design II</b>                  Combinational logic circuits; combinational logic design; sequential circuits and design; registers and counters; hardware description languages; memory and programmable logic devices; register transfers and datapaths; sequencing and control; central processing unit designs; memory systems; reconfigurable computing. (Prerequisite: 88-217.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)</p> <p><b>88-333. Practicum in Electrical Engineering</b>                  This is a hands-on introductory course on programmable logic controller (PLC's) systems which covers fundamentals of</p>
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PLC's and their application to various processes and machines; software development and interpretation of simple ladder logic. Also covered are the basic processes needed to layout printed circuit board (PCB) design using PCB software. Etching a positive coated copper clad board is done during the lab. (Prerequisite: Successful completion of WHMIS [Workplace Hazardous Materials Information System]) Training is available online at: <http://www.whmis.net/> (1 lecture, 2 laboratory hours a week.)

#### **88-400. Capstone Design Project**

Team based design project satisfying the "CAPSTONE DESIGN PROJECT REQUIREMENTS", available from the Department of Electrical and Computer Engineering. Gives the student significant design experience and builds on the knowledge and skills acquired in earlier course work. Provides an exposure to teamwork so as to emulate a typical professional design environment. Computers are to be used both in the execution of the design methodology and the management of the design project. (Prerequisite: fourth-year standing.) (6 laboratory hours per week; that must be completed over two consecutive winter and summer terms - 6 credit-hour course.)

#### **88-410. Directed Study I**

The objective of this course is to provide an opportunity for the exceptional fourth-year student with a demonstrated record of scholarship to work in close accord with a faculty member on a project of mutual interest. A written report and oral presentation are required for evaluation by the Department. A Directed Study course may be taken by an eligible student in place of a fourth-year general option course. (Prerequisite: an 11.0 GPA or better in the third year and permission of the Department Head.) (For the purposes of assigning grades and determining averages, 3 lecture hours per week have been allocated to the course.)

#### **88-419. Digital Communications**

Digital communication systems; discrete Fourier transform; sampling theory; A/D converters; digital modulation; time-division multiplexing; packet transmission; spread spectrum systems; random processes and spectral analysis for digital systems; error probabilities; noise; wire and wireless digital communication systems. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-420. Directed Study II**

The objective of this course is to provide an opportunity for the exceptional fourth-year student with a demonstrated record of scholarship to work in close accord with a faculty member on a project of mutual interest. A written report and oral presentation are required for evaluation. A Directed Study course may be taken by an eligible student in place of a fourth-year general option course. (Prerequisite: an 11.0 GPA or better in the third year and permission of the Department Head.) (For the purposes of assigning grades and determining averages, 3 lecture hours per week have been allocated to the course.)

#### **88-431. Control Systems II**

Discrete-time control systems; Z-transform; Z-plane analysis of discrete-time systems; design of discrete-time control systems by conventional methods; state space analysis; pole placement and observer design; digital control system design; implementation of digital control systems using microcontroller/DSP systems; introduction to optimal and robust control design; nonlinear system analysis. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-432. EM Waves and Radiating Systems**

Fundamentals of electromagnetic radiation, antenna impedance dipoles, arrays, and long wire antennas; aperture antennas, receiving system considerations. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 tutorial hours a week.)

#### **88-433. Digital Integrated Circuit Design**

Physics and modelling of MOSFETs; fabrication and layout of CMOS integrated circuits; the CMOS inverter: analysis and design; switching properties of MOSFETs; static logic gates; transmission gate logic circuits; dynamic logic circuit concepts; CMOS dynamic logic families; CMOS differential logic families; design methodologies and CAD tools; deep-submicron implementations. (Prerequisite: 88-316 and fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-434. Automotive Electronics**

Electrical energy generation and distribution; ignition systems; motor drive controllers; sensors; signal conditioners; power-train management; electromagnetic interference; automatic control; embedded real-time controllers; diagnostics; automotive DSP; telematics; automotive computing. (Prerequisite: 88-324, 88-327 and fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-435. Microelectromechanical Systems**

Microelectromechanical structures; materials; microactuators and microsensors including micro-motors; grippers, accelerometers and pressure sensors; microlithography, micromachining, microfabrication processes; mechanical and electrical design issues; input/output structures; integration of MEMS and microelectronics; design project; CAD tools. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-436. Computer Communications**

Protocols and architecture; data transmission; data encoding; interfacing; data link control; multiplexing, ISO reference model; wide-area networks; circuit switching; packet switching; ATM and frame relay; LAN technology and systems; internet protocols; inter-network operation; transport protocols; network security. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-437. Intelligent Computing**

Computing models of the human mind. Neural computing models and learning algorithms. Fuzzy set theory and fuzzy systems. Evolutionary computing. Applications of intelligent computing. (Prerequisite: fourth-year standing in an Engineering or Computer Science program.) (3 lecture, 1.5 tutorial hours or equivalent a week.)

#### **88-438. Coding and Information Theory**

Abstract algebra, number theory and complexity theory; simple cryptosystems; Shannon's theory; entropy and information theory; data encryption standard, RSA system and factoring; public-key cryptosystems; signature schemes; hash functions; key distribution and key agreement; identification schemes; authentication codes; access structures and general secret sharing; pseudo-random number generation; zero-knowledge proofs (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-439. Multimedia Systems**

Multimedia signals: Audio fundamentals; the Human visual system and perception; multimedia data acquisition. Multimedia signal compression: Transforms and subband decomposition; text representation; digital text, audio, image, and video compression. Multimedia signal processing: Digital audio, image, and video processing. Multimedia systems. (Prerequisites: 88-224 and fourth-year standing) (3 lecture, 1.5 tutorial hours or equivalent a week.)

#### **88-440. Wireless Communications**

Introduction to wireless communications; cellular system design fundamentals; propagation path loss; fading and multi-path propagation; modulation techniques; diversity; coding and equalization; speech coding for wireless communications; multiple access networking, wireless communications protocols; satellite communication systems. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-443. Embedded System Design**

Hardware and software for embedded computing systems. Introduction to embedded systems. Custom single-purpose processors: Hardware Design (includes review of FSMs, registers/counters and register files). General-purpose processors: Software; design flow environment and tools; testing and debugging. Standard single-purpose processors: Peripherals. Memory system design. Interfacing issues: serial and parallel communication, bus standards, protocols and arbitration. Putting it all together -- a digital camera example. Course labs will involve use of FPGA embedded processors (Altera NIOS or Xilinx Microblaze), programmable logic (Altera or Xilinx FPGAs) and associated CAD tools for design mapping (modeling, simulation, synthesis and debugging). (Prerequisite: 88-327, 88-330 and fourth-year standing.) (3 lecture, 1.5 laboratory hours a week.)

#### **88-444. Analog Integrated Circuit Design**

Bipolar and CMOS technology; CMOS analog circuit modelling; CMOS device characterization; current sinks and sources; current mirrors, current amplifiers; amplifiers; differential amplifiers; comparators; operational amplifiers; A/D converters; multipliers; wave-shaping; low voltage and power; CAD tools. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-445. Power Electronics**

Power diodes; thyristors; power MOSFETs; controlled rectifiers; DC-DC converters; inverters; AC-AC converters; DC/DC conversion; gate drive circuits; motor drives; direct-torque-controlled drives; fuzzy logic in electric drives; computer simulation of power electronics and motor Drives. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

#### **88-447. Computer Networks and Security**

Introduction to computer networking and security; packet switching; networking protocols; local area networks, fiber channel protocols; transport protocol and security, encryption; application on running on various transport protocols, inter-working protocols and security; frame relaying and asynchronous transfer modes; digital switching; emerging computer networking and security technology. (Prerequisite: fourth-year standing.) (3 lecture, 3 laboratory/tutorial hours or equivalent a week.)

#### **88-448. Digital Computer Architecture**

Computer Organization and architecture; number, character and instruction representations; addressing methods and machine program sequencing; central processing unit; input-output organization; memory; arithmetic; pipelining, computer peripherals; advanced computer systems; assembly language programming. (Prerequisite: 88-330.) (3 lecture, 1.5 laboratory/tutorial hours a week.)

#### **88-449. Automotive Sensor Systems**

Evolution of automotive sensors, sensor design and applications in vehicles, sensor electronics and design, automotive pressure sensors, temperature sensors, combustion sensors, torque sensors, displacement and position sensors, accelerometer physics, gas composition sensors, liquid level sensors, design of sensor electronics systems, design of sensor system software, smart sensors and design, sensors for intelligent vehicles on the road, future development of sensor systems. (Prerequisite: fourth-year standing.)

#### **88-457. Digital Signal Processing**

Discrete time signals and systems; difference equations; Z-transform; system functions; state equations; discrete Fourier transform; FFT algorithms; FIR digital filters; FIR filter design; IIR digital filters; IIR filter design; word length and quantization error; hardware and software implementations; digital signal processing applications. (Prerequisite: fourth-year standing.) (3 lecture, 1.5 laboratory/tutorial hours or equivalent a week.)

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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING: COURSES

### 91-301. Human Factors in Engineering Systems

Implementing human factors in systems design; human capabilities and limitations; design of the industrial workplace; design of the environment-lighting, temperature, noise, atmosphere; design of display and control systems; human factors in expanding technology-data processing and consumer products. (3 lecture, 2 laboratory hours a week.)

### 91-311. Computer-Aided Design and Manufacturing

CAD/CAM from theory to practice, and important integration issues and approaches. Primary focus on computer-aided design methods and applications. Basic and generic principles and tools, significant hands on practice and engineering applications. Special topics, e.g.: part modelling, assembly modelling, mechanism analysis, etc., are studied and practiced using a high-end integrated solid modelling CAD system. Topics include: Geometric Modelling Systems, Geometric Modelling Systems, Parametric Representations, Solid Modelling and Applications, Digital Mockup & Rapid Prototyping, and special topics. (Prerequisite: 91-321.) (3 lecture hours and 2 laboratory/tutorial hours a week.)

### 91-312. Operations Research I

Deterministic O. R. models. Linear programming-graphical and simplex methods, duality theory. Transportation, assignment and network models. Sensitivity analysis. Integer programming, branch-and-bound and cutting plane methods, mixed IP algorithms, 0/1 programming. Use of LP and IP computer software programs. Dynamic programming-principle of optimality, stagecoach problems, recursive relationship. (Prerequisite: 62-126.) (3 lecture, 2 laboratory hours a week.)

### 91-315. Manufacturing Driven Product Design

Engineering design and work measurement principals are studied and applied to quantify and reduce the base engineered assembly content of automotive product designs. Non traditional methods for designing and building products for profit are studied with a goal of minimizing total assembly costs, manual labour and associated ergonomic injuries. Recent advances in manufacturing driven product designs in the automotive industry are presented to educate students on the contributions of product designs to the minimization of assembly costs, assembly labour content and the risk of injuries. (Prerequisites: 91-301 and 91-327.) (3 lecture and 2 lab hrs per week.)

### 91-317. Systems Analysis and Design

Fundamental concepts, philosophies, and trends that provide the context of systems analysis and design methods. Information systems in terms of common building blocks: Data, Processes, and Interfaces. Basic concept of systems and systems engineering; system representation; system life cycle; system design process; and system design methods. All businesses and organizations develop information systems. Systems analysis and design is about business problem solving and computer applications. Methods in systems analysis and design are applied to a wide variety of problem domains. (3 lecture hours and 2 laboratory/tutorial hours a week.)

### 91-321. Automotive Manufacturing Process Design

This curriculum provides students with the basic science and engineering science background required to lead the design and manufacturing of products for profit in a globally competitive marketplace. Successful students will understand auto manufacturing in the broadest sense and emphasis is placed on the basic science of converting select raw materials into quality products anywhere on earth. Successful graduates will know and be able to compare the difference between the mechanical behaviors of automotive materials, select materials for automotive manufacturing based on desirable physical properties and lead the design of the most important manufacturing processes used in the auto industry. The auto manufacturing processes studied include the engineering science of: metal casting, rolling of metals, forging, extrusions and drawing of metals, sheet metal forming, and the forming and shaping of plastics parts. This course includes the laboratory analysis of the materials and the study of manufacturing processes used to produce automotive components. (Prerequisite: 91-317.) (3 lecture hours and 2 laboratory/tutorial hours a week.)

### 91-327. Product Quality and Reliability

Impact of quality on manufacturing processes and product design. Methods and theories of statistical process control. Control charts for attributes and for variables. Process capability analysis and six-sigma method. Acceptance sampling and sampling standards. Reliability engineering and various failure models. Failure modes and effects analysis (FMEA). Taguchi method. Product design and quality function deployment (QFD). ISO 9000/ QS 9000 standards. Total Quality Management (TQM) method. (Prerequisite: 85-222.) (3 lecture, 2 tutorial hours a week.)

### 91-332. Statistical Methods and DOE for Manufacturing

Use of designed experiments (DOE) in engineering product and process design processes. Experiments involving one factor; ANOVA; fixed, random, and mixed models; randomized blocks, Latin squares, and incomplete block designs. Factorial designs. Fractional designs. The Taguchi method and robust product/process design. Emphasis is put on industrial applications of various designs. (Prerequisite: 91-327.) (3 lecture, 2 laboratory hours a week.)

### 91-333. Industrial Health and Safety

Fundamentals of manufacturing safety and health are studied to provide manufacturing engineers with the knowledge they need to incorporate some of the most notable safety considerations into the manufacturing infrastructure. Topics to be examined include: machine guarding, confined spaces and accident prevention, accident losses, liabilities, workers' compensation, Ontario Occupational Safety and Health Act, standards, codes, engineers and safety, management and it's responsibilities, hazards and their control, work-related musculoskeletal disorders, heat and temperature, pressure hazards, electrical hazards, vibration and noise. (Prerequisite: 91-301.) (3 lecture/2 laboratory hours a week.)

#### **91-390. Introduction to Supply Chain: Logistics**

This course explores the basic concepts of managing the flow of materials in a typical enterprise supply chain. Students will examine a complete overview of material and information flow, from internal and external suppliers, to and from the enterprise. Topics covered include: basic elements of the supply chain; just-in-time; enterprise resource planning; demand and aggregate planning; the analysis of logistics capabilities; and interrelationships among customer service. The impact of e-commerce on supply chain management is also included. The students have the opportunity to explore and use SAP and other software packages. (Prerequisite: 91-312.) (3 lecture, 2 laboratory hours a week.)

#### **91-400. Capstone Industrial Design Projects**

Students working in teams, and supervised by Faculty, will undertake an industrial design project, eight hours per week. This design course integrates mathematics, basic sciences, engineering sciences and complementary studies in developing elements, systems and processes to meet specific needs of the industrial sponsor. It is a creative, iterative and often open-ended process subject to constraints which may be governed by corporate standards or applicable legislation to varying degrees depending upon the project. These constraints may relate to economic, health, safety, environmental, social or other pertinent interdisciplinary factors.

The Faculty advisor and industrial preceptor will advise the students and evaluate the progress and results of the design project. Students participate in faculty instruction and group meetings. An Oral exam and written engineering design reports (interim and final) are required. (Prerequisites: 4th year standing (Semester 7 or 8th), 62-215 and 62-216.) (1 lecture hr & 8 industry laboratory hours a week. ) [offered over two terms - a 10.00 credit hour course]

#### **91-412. Operations Research II**

Probabilistic O.R. models. Markov chains and their properties; continuous-time Markov chains. Queuing theory; the role of Exponential and Poisson distributions. Applications of queuing theory in production systems. Markovian decision processes. Reliability. Renewal Theory. Use of computer software programs to solve optimization problems in queues and Markov Processes. (Prerequisite: 85-222.) (3 lecture, 2 laboratory hours a week.)

#### **91-413. Automotive Production Analysis**

Analysis and control of production systems. Demand forecasting. Deterministic and stochastic inventory systems. Aggregate planning and master scheduling. Material requirement planning. Operations sequencing and balancing. Job shop scheduling and control systems. Introduction to group technology and flexible manufacturing systems. (Prerequisite: 91-312.) (3 lecture hours, 1 tutorial hour a week.)

#### **91-422. Simulation of Industrial Systems**

Introduction to Simulation-Random number and variate generation. Applications to queues, inventories and related models. Special purpose simulation languages-SIMAN/ARENA. Input data analysis and model validation. Simulation output analysis, design of experiments. Use of computer software. (Prerequisite: 91-317.) (2 lecture, 3 laboratory hours a week.)

#### **91-424. Computer-Aided Manufacturing and Measurement**

Manufacturing processes including traditional transfer machines, advanced CNC processes such as multi-axis multi-turret systems, multi-axis machining centers, and non-traditional manufacturing processes such as grinding (abrasive machining), electrical discharge machining (EDM), electrochemical machining and plasma torch/laser cutting. Modules include: basic machining principles, generating CNC code, tool path optimization, and process planning (machine set-up and task sequence.). The measurement module will review GD&T, tolerance stack ups, principles of automated measurement, sources of error, scan path optimization, and CAD to part comparisons (reverse engineering). (Prerequisite: 91-321.) (3 lecture hours and 2 laboratory/tutorial hours a week.)

#### **91-428. Facilities and Material Handling Engineering**

Approaches to establishing location and layout of space, equipment and services for industrial facilities. Criteria and data for generating & comparing alternatives. Computerized layout planning models, storage systems, AS/RS, Material handling, scope, definitions, and principles, unit load design, types of equipment, flow of material and line balancing. Environmental, human and cost considerations. Electrical and lighting systems and atmospheric systems. (Prerequisite: 91-321.) (2 lecture and 2 laboratory hours per week.)

#### **91-429. Management Decision Support Systems**

Formulation of decision problems in engineering and management. Decision criteria. Strategies. Utility theory and decision functions. Information requirements of decision-making systems. Design of information systems to support decision-making systems. Economic considerations. Use of computer software packages. (Prerequisite: 91-317.) (3 lecture hours, 1 laboratory hour a week.)

#### **91-430. Directed Study**

The student will undertake a literature survey and/or a laboratory project in consultation with the Department Head. A written report is mandatory and participation in the Industrial Engineering Program seminars may be part of the requirement. (Prerequisite: fourth-year standing with at least an 8.0 average.)

#### **91-431. Flexible Manufacturing Systems**

Production Systems, Flexible Automation, Computer-Integrated Manufacturing, Group Technology And Cellular Manufacturing, Flexible Manufacturing Systems, Assembly Systems, Materials and tools handling, Robotics In Manufacturing, Principles Of Design For Manufacture, Process Planning And Concurrent Engineering, New Trends-Lean, Agile And Re-Configurable Manufacturing Systems. (Corequisite or prerequisite: 91-413 or equivalent.) (3 lecture, 2 tutorial/laboratory hours a week.)

#### **91-432. Statistical Methods in Manufacturing**

Use of designed experiments in engineering design process. Experiments involving one factor; ANOVA; fixed, random, and mixed models; randomized blocks, Latin squares, and incomplete block designs. Factorial designs. Fractional designs. The Taguchi approach to quality design. Emphasis is put on industrial applications of various designs. (Prerequisite: 91-327.) (3 lecture, 2 laboratory hours a week.) (Available only to students admitted prior to Fall 2004.)

**91-492. Logistics and Distribution**

Design and operation of manufacturing and warehousing facilities. Warehousing issues in supply chains. Planning and managing inventories in supply chains. Sourcing decisions in supply chains. Transportation issues in supply chains. SAP and other software packages will be used. (Prerequisite: 91-390; Corequisite: 91-412.) (3 lecture hours, 2 laboratory hours a week.)

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## MECHANICAL, AUTOMOTIVE, AND MATERIALS ENGINEERING: COURSES

### MECHANICAL ENGINEERING

#### 92-210. Dynamics

Topics in dynamics of rigid bodies. Forces and accelerations, energy and momentum methods for rigid bodies in plane motion. Motion of rigid bodies in three dimensions. (Prerequisite: 85-122.) (3 lecture, 2 tutorial hours a week.)

#### 92-222. Analysis of Mechanical Systems

Simulation and analysis of lumped parameter systems; parameter optimization in a design study using numerical solutions to the governing equations; introduction to computer-aided design packages. (Prerequisite: 85-132.) (3 lecture, 2 laboratory or tutorial hours a week.)

#### 92-229. Electric Motors

Review of DC inductive, capacitive, and resistive circuits. AC circuits; three-phase power. DC, synchronous, and induction motors. Special purpose motors. Introduction to motor control. (Prerequisite: 85-124.) (3 lecture, 2 laboratory hours a week.)

#### 92-311. Stress Analysis I

Combined loading, stress and strain transformations, Mohr's circle in 3-D, stress concentration, theory of failure, energy methods, shear flow in bending, composite beams. (Prerequisite: 87-227.) (3 lecture, 2 laboratory/tutorial hours a week.)

#### 92-315. Mechanical Vibrations

Free, damped, and forced vibration of single and multi-degree of freedom systems with discrete masses. Exact and approximate methods of solution. Vibration isolation, vibration transducers, use of computers in vibration analysis. (Prerequisite: 92-210.) (3 lecture, 2 tutorial hours a week.)

#### 92-317. Applied Thermodynamics

Ideal gas mixtures and psychrometrics. Reacting mixtures and combustion. Power cycles, refrigeration and heat pump cycles. (Prerequisite: 85-212.) (3 lecture, 2 laboratory/tutorial hours a week.)

#### 92-320. Fluid Mechanics II

Navier-Stokes equations and some exact solutions, external flows boundary layer over a flat plate, drag forces; turbulent flows in pipes and mixing length theory, flow measurement, compressible flows and introduction to potential flows. (Prerequisite: 85-233.) (3 lecture, 2 laboratory/tutorial hours a week.)

#### 92-321. Control Theory I

Control system concepts, linear modelling and analysis of response and stability of physical systems, complex variables and Laplace transforms, frequency, and transient response analysis and performance specifications. (Prerequisites: 62-215 and 62-216.) (3 lecture hours, 1 tutorial hour a week.)

#### 92-323. Machine Dynamics

Linkages of flexible connectors, cams, toothed gearing, intermittent motion mechanisms, trains of mechanisms, static and dynamic analysis of mechanical flywheels, balancing of rotating and reciprocating masses. (Prerequisite: 92-210.) (3 lecture, 2 tutorial hours a week.)

#### 92-324. Engineering Measurements

Basic concepts in instrumentation; error analysis; instrumentation and measurement systems including sensors, transducer, signal conditioning and display; microcomputer-based data acquisition and analysis. (Prerequisite: 85-222.) (3 lecture, 1.5 laboratory/tutorial hours a week.)

#### 92-328. Heat Transfer

Introduction to the three heat transfer modes: conduction, convection, and radiation. Application of heat exchange equipment. (3 lecture, 2 laboratory hours a week.)

#### 92-400. Capstone Design

Student design teams, operating within a "company" environment, utilize the broad range of their undergraduate experience in interdisciplinary projects selected to promote interaction between the mechanical, automotive, and materials programs. Design methodologies and team interaction simulate future professional practice. Project milestones include: a design proposal with cost analysis and scheduling, construction and commissioning of the designed apparatus, and a final report and presentation having both global and detail completeness. (Prerequisite: 4th-year standing; co-requisite: 92-411/92-421.) (Antirequisite: 92-410/92-420.) (2 lecture, 4 laboratory hours a week.) (A 8.00 credit weight, 2 semester course.)

#### 92-411. Machine Design I

Static and fatigue loading failures. Threaded fasteners, pins and keys. Welded, brazed, and adhesive joints. Springs. Anti-friction bearings, hydrodynamic lubrication. Student-designed experiments will analyze component failures. (Prerequisites: 92-323, 92-311, and fourth-year standing.) (3 lecture, 3 laboratory hours a week.)

#### 92-421. Machine Design II

Gearing and gear trains: spur, helical, worm, and bevel gears. Clutches, brakes, couplings, flywheels. Chain and belt drives.

Design of shafting. Student-developed software to support mechanical design. (Prerequisite: 92-411.) (3 lecture, 3 laboratory hours a week.)

**92-459. Computer Aided Engineering - CAE**

Three-dimensional graphics; fundamentals of finite element methods for problem solving in heat transfer, solids, and trusses using finite element computer programs. (Prerequisite: 92-222.) (2 lecture, 3 laboratory/tutorial hours a week.)

*MECHANICAL TECHNICAL ELECTIVES*

Some of these courses may not be offered in any given year.

**92-322. Optimization of Thermal Systems**

Computer based and classical optimization techniques including Lagrange multipliers, search methods and geometric, linear and dynamic programming with application to the analysis and design of thermo-fluid systems. (Prerequisites: 92-222 and 92-317.) (2 lecture, 3 laboratory/tutorial hours a week.)

**92-412. Mechatronics**

Review of electromechanical components. Practical application of microcontrollers in electromechanical systems. Use of infrared sensors, photoresistors, operational amplifiers, timers, servomotors, and analog/digital converters in mechatronics systems. A hands-on, laboratory-based course. (Prerequisite: 92-321.) (2 lecture, 3 laboratory/tutorial hours a week.)

**92-428. Environmental Assessment**

Environmental impact assessment. Biophysical and socioeconomic impacts from engineering activities, processes, and projects. Human health and environmental risk concepts. Introduction to life cycle analysis, corporate/industrial environmental management, and environmental management systems. Students will undertake various project related and problem-based assignments. (Cross-listed as 93-428.) (3 lecture, 2 tutorial hours a week.)

**92-440. Topics in Mechanical Engineering**

Selected topics of current interest in Mechanical Engineering. (Prerequisite: 4th-year standing or permission of instructor.) (3 lecture, 1 laboratory hour a week.)

**92-441. Directed Studies in Mechanical Engineering**

A special course of studies in Mechanical Engineering with content and direction approved by the Department Head. Although the course may not include formal lectures, it will carry the weight of three lecture hours and 1 laboratory hour per week. (Prerequisite: 4th-year standing with a (B) average or better.)

**92-450. Gas Dynamics**

Basic concepts and flow equations, one dimensional flows, isentropic flows in variable area ducts, constant area duct flows, Fanno and Rayleigh lines, normal shock, nozzles and diffusers, oblique shock, measurements. (Prerequisite: 92-320.) (3 lecture, 1 laboratory/tutorial hours a week.)

**92-451. Turbomachines**

Dimensional analysis and similitude; definitions of efficiency, two dimensional analysis of axial flow turbines and compressors, three dimensional flow, centrifugal pumps and compressors. (Prerequisite: 92-450.) (3 lecture, 1 laboratory/tutorial hours a week.)

**92-452. Computational Thermo-Fluids**

Analysis of thermo-fluid systems using computational packages. Relation of software to fundamental concepts. Application to transient flow, branched networks, flow with and without heat transfer and phase change, multi-dimensional conductive heat transfer. Importance of experimental validation and model assumptions. (Prerequisites: 92-317, 92-320.) (3 lecture, 1 laboratory/tutorial hours a week.)

**92-453. Air Conditioning**

Principles of environmental comfort control, applied psychrometrics, load calculations, air distribution system design. (Prerequisite: 92-317.) (3 lecture, 1 laboratory/tutorial hours a week.)

**92-455. Environmental Effects and Control of Noise**

Physical properties of sound and noise, measurement of noise, noise control, hearing characteristics and environmental effects of noise. (3 lecture, 1 tutorial/laboratory hours a week.)

**92-456. Mechanical Vibrations II**

Vibration of bodies with distributed mass. Exact and approximate methods of solution. Whirling of shafts. Vibration maintenance engineering. Introduction to non-linear vibration. (Prerequisite: 92-315.) (3 lecture, 1 tutorial/laboratory hours a week.)

**92-457. Advanced Dynamics**

Kinematics of particles and rigid bodies. Dynamics of particles, systems of particles and rigid bodies, with applications to engineering problems. The gyroscopic effect. Introduction to variational methods. Lagrange's equations, Hamilton's principle. (Prerequisite: 92-210.) (3 lecture, 1 laboratory/tutorial hours a week.)

**AUTOMOTIVE ENGINEERING**

**94-330. Automotive Engineering Fundamentals**

Overview of primary automotive systems. Engine types and configurations, combustion, emission control, vehicle

performance. Powertrain, suspension, frame and chassis. Materials and fabrication issues. Engine and vehicle dissection laboratory. Identification of industry issues and trends. (2 lecture, 4 laboratory hours a week.)

#### **94-440. Topics in Automotive Engineering**

Selected topics of current interest in Automotive Engineering. (Prerequisite: 4th-year standing or permission of instructor.) (3 lecture, 1 laboratory hours a week.)

#### **94-441. Directed Studies in Automotive Engineering**

A special course of studies in Automotive Engineering with content and direction approved by the Department Head. Although the course may not include formal lectures, it will carry the weight of three lecture hours and 1 laboratory hour per week. (Prerequisite: 4th-year standing with a (B) average or better.)

#### **94-461. Design for Manufacturability**

Expansion of engineering graphics to include statistical tolerance design, geometric dimensioning and tolerancing (GD&T), schematics for standard components, design for manufacture and assembly (DFMA), reverse engineering, quality methods, and design morphology. (Prerequisite: 92-311.) (3 lecture, 1 laboratory hours a week.)

#### **94-463. Vehicle Dynamics**

Classification and analysis of suspension types and geometry, powertrain layout, and ride quality. Tire modeling, stability, and numerical simulation of vehicle dynamics, including longitudinal and lateral vehicle response to driver inputs. Selected topics from industry experts. (Prerequisite: 92-315.) (3 lecture, 1 tutorial hours a week.)

#### **94-465. Internal Combustion Engines**

Mechanical design of vehicular internal combustion engines for different applications. Covers basic engine types and their operation from an energy conversion systems viewpoint, where the system needs to satisfy a number of requirements. These performance and operational requirements are derived from basic thermodynamics, operation of heat engine cycles, ignition and combustion processes, fuel system design, heat transfer, emissions formulation, available instrumentation and testing procedures. Environmental impact of vehicular designs on global pollution and government standards. Recent developments in energy-efficient and alternate fuel engines. (Prerequisites: 92-317, 92-320.) (3 lecture, 1 tutorial hours a week.)

#### **94-467. Vehicle Thermal Management**

A study of controlled passenger compartment environment, and automotive thermal management hardware: radiator, heater core, air-conditioning components. Topics include the thermal comfort model of occupants in a vehicle, determination of heating and cooling loads, the practical application of refrigeration in automotive air-conditioning followed by design of equipment and HVAC system, description and design of engine cooling system. (Prerequisites: 92-317, 92-328, 85-233.) (3 lecture, 1 laboratory hours a week.)

#### **94-469. Diesel Engine Fundamentals**

Theory and practice of modern diesel engines. Diesel combustion cycle. Engine design aspects including fuel injection, turbocharging, and intercooling. Measurement and control of engine emissions. Engine performance testing. Future and advanced technologies including exhaust aftertreatment. (Prerequisites: Semester 6 standing and 92-317.)

### **ENGINEERING MATERIALS**

#### **89-330. Materials and Their Properties**

The relationship of the engineering properties of materials to their atomic structure, bonding, crystal structure, imperfections and microstructure. The processing of materials to produce required structure and properties. Includes consideration of crystal structure determination, phase diagrams, diffusion, phase transformations, solidification, heat treatment and deformation. The laboratory is a term-long project designed to familiarize students with the use of materials-related equipment commonly found in industrial and research laboratories. (Prerequisite: 85-219.) (3 lecture, 2 laboratory hours a week.)

#### **89-331. Thermodynamics and Kinetics of Materials**

Thermodynamics: review of First and Second Laws, gas laws, humidity, thermochemistry, entropy, reversible and irreversible processes, equilibrium criteria, Gibbs free energy, activity and activity coefficient, solution thermodynamics, Raoult's and Henry's Laws, Gibbs-Duhem equation, alloy phase equilibria, free energy-composition diagrams, Ellingham diagrams.

Kinetics: empirical treatment for homogeneous reaction rates, reaction order and specific rate constant, activation energy, Arrhenius' Law, energy distribution in reacting systems, heterogeneous reactions. Selected problems in materials processing to illustrate theory. (3 lecture, 2 laboratory hours a week.)

#### **89-420. Ceramic Materials**

Uses of traditional and advanced ceramics. Monolithic and composite ceramics. Comparison of ceramics with metals and alloys. Processing: raw material preparation, forming techniques, theory and practice of sintering, quality control. Properties: modulus of rupture, creep, corrosion, erosion, and electrical, magnetic and optical properties. (3 lecture hours, 1 laboratory hours a week.)

#### **89-421. Deformation and Fracture**

Introduction to basic plasticity theory and its application to common metal forming and metal cutting processes. Fracture mechanics and its applications in brittle and ductile fracture, creep and fatigue, for purposes of design and of analysis. (3 lecture, 2 laboratory hours a week.)



*MATERIALS OPTION TECHNICAL ELECTIVES*

**89-432. Modern Steels**

An overview of developments in materials, manufacturing processes and applications for modern steels. Classes and classifications of steels, effects of alloy additions and control of microstructure. In-depth studies of high strength low alloy (HSLA), dual-phase, ultra-high strength, stainless and tool steels. The laboratory is an individual assignment on one type of steel. (3 lecture hours, 1 laboratory hour a week.)

**89-433. Physical Metallurgical Processes**

Application of diffusion theory to diffusion-controlled processes; solidification principles and application to foundry problems-segregation in castings; heat transfer processes. Selected problems to illustrate theory. (3 lecture, 1 laboratory hour a week.)

**89-434. Polymers**

The structure, properties, and processing of polymers (plastics) with emphasis on polymer forming processes, including extrusion, injection molding, blowmolding, and thermoforming, including tours of local industry. Fabrication and properties of composites with a polymer base. (3 lecture hours, 1 laboratory hour a week.)

**89-440. Topics in Materials Engineering**

Selected topics of current interest in Materials Engineering. (Prerequisites: 4th-year standing or permission of instructor.) (3 lecture, 1 laboratory hours a week.)

**89-441. Directed Studies in Materials Engineering**

A special course of studies in Materials Engineering with content and direction approved by the Department Chair. Although the course may not include formal lectures, it will carry the weight of three lecture hours and 1 laboratory hour per week. (Prerequisites: 4th-year standing with a (B) average or better.) (3 lecture hours, 1 laboratory hour a week.)

**89-450. Welding Engineering**

Arc welding processes, filler metal selection, welding procedure specification and qualification per ASME, CSA, and AWS codes. Weld and joint types, calculation of weld size and stress, design for fatigue prevention, weld discontinuities, non-destructive test methods, mechanical property evaluation. Solidification and welding metallurgy, base metal classification, hydrogen-assisted cracking and its control, use of preheat and postweld heat treatments, weldability, fabrication issues. (3 lecture, 1 laboratory hours a week.)

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING: COURSES

Not all courses listed will be offered each year. All courses are three hours a week (3.0 credit hours) unless otherwise indicated. Students should consult the Departmental office or website for details of Topics and Seminar courses offered in a given year.

### 100-LEVEL COMPOSITION AND CREATIVE WRITING COURSES

#### 26-100. Composition

An exploration of the fundamentals of effective writing, including attention to rhetorical concepts of audience, purpose, and context; planning, logical development, and organization; and format and style. (Because of the large number of written assignments and the need for individual instruction, enrollment in 26-100 is limited.) (Not open to students majoring in English.) (Antirequisite: 26-103.)

#### 26-103. Composition for ESL Students

Instruction and extensive practice in writing English in the style and form appropriate for Canadian university-level courses. (Open to students whose first language is not English and whose writing displays problems typical of ESL learners. A placement or writing test may be administered to verify that the student's writing fits the stated criteria.) (Not open to students majoring in English.) (Antirequisite: 26-100.)

#### 26-105. Creative Writing

An introduction to the Creative Writing program. Creative writers will practice writing in various genres in an intensive workshop. (Portfolio approval is required for admission.) (This is not a course in Composition.) (Not available on an Audit basis.)

### 100-LEVEL LITERATURE COURSES

#### 26-120. Writing about Literature

An introduction to the basic tools for analyzing and writing about literature. Students will be trained in practical criticism of the major genres of literature (poetry, drama, and narrative) and will write a number of critical essays. (Not available on an Audit basis.) (Restricted to majors in English and BAS only.)

#### 26-122. Drama of the Western World: The Tragic Vision

An introduction to tragedy from antiquity to the present, from literary and theatrical perspectives.

#### 26-123. Drama of the Western World: The Comic Vision

An introduction to comedy from antiquity to the present, from literary and theatrical perspectives.

#### 26-128. Women and Literature

An introduction to the ways in which women have been represented and constructed in English literature of various periods.

#### 26-140. Topics in Literature

An introduction to a topic in literature. Topics may include Canadian Aboriginal literature; literature pertaining to topics such as the Bible, the environment, film, or music; comparative literatures; or world literatures in English. (May be repeated for credit if the topics are different.)

### 200-LEVEL CREATIVE WRITING AND LITERATURE SURVEY COURSES

#### 26-201. Topics in World Literatures

This course features world literature in English or in translation drawn from Western and non-Western sources. Historical settings, cultural backgrounds and critical commentaries complement views on cultural diversity and inter-disciplinarity. This course focuses on any of the major genres, including non-fiction and a variety of literary traditions including women's, minority, and ethnic literatures. Topics could include Orientalism, Diaspora writing, as well as African, Asian, Chinese, European, or Middle-Eastern literatures either in English or in translation. (May be repeated for credit if the topics are different.) (Prerequisite: Semester 3 standing and one 100-level English literature course.)

#### 26-202. Topics in Culture and Text

This course will feature studies in English literature with changing emphasis on particular themes, genres, or authors. Topics might include genre studies such as Science Fiction, Children's literature, Detective Fiction, Visual Narrative (*i.e.*; Comics), Environmental Criticism, and the Semiotics of media, among others. (May be repeated for credit if the topics are different.) (Prerequisite: Semester 3 standing and one 100 level English literature course) (Prerequisite: Semester 3 standing and one 100 level English literature course).

#### 26-203. Creative Writing I

An intensive workshop in various genres. Previous formal creative writing experience is expected. (Portfolio approval is required for admission.) (Not available on an Audit basis.) (A 6.0-credit, two-term course.)

#### 26-205. Children's Literature

A critical study of selected works of literature written for children, including nursery rhymes, fairy tales, and book-length classics. (Prerequisite: Semester 3 standing and one English-literature course.)

**26-210. Early British Literature**

A critical study of selected works of major writers of the Medieval, Renaissance, Restoration, and early eighteenth-century periods (from 450 to 1760) (Restricted to English majors only.) (Students may not receive credit for both 26-210 and 26-110).

**26-211. Later British Literature**

A critical study of selected works of major writers of the Romantic, Victorian, and Modern periods (from 1760 to the present). (Restricted to English majors only.) (Students may not receive credit for both 26-211 and 26-111).

**26-260. Canadian Literature**

A critical study of selected works of Canadian literature across various genres, regions, and communities. (Prerequisite: Semester 3 standing and one English-literature course.)

**26-270. American Literature**

A critical study of selected works of American literature across various genres, regions, and communities. (Prerequisite: Semester 3 standing and one English-literature course.)

**26-280. Contemporary Literary Theory**

A survey of contemporary literary theory, which may include new criticism, structuralism, poststructuralism, hermeneutics, psychoanalysis, Marxism, new historicism, or gender studies. Explores fundamental critical concepts, with an emphasis on the ways in which notions of reading, textuality, authorship, and subjectivity have developed in Anglo-American and European thought. (Prerequisite: Semester 3 standing and one 100-level literature course in English.) (Restricted to English Majors)

**26-285. History of Literary Criticism**

Major Works, movements, and ideas in literary criticism from the Greek Classics to the mid-Twentieth century will be covered. This course will help students develop skills in the application of theory as well as the criticism of theory itself. Key schools of thought or movements covered could include Classical, Neo-Classic, Feminist, Humanist, Romantic, Nihilist, Existential, Marxist, and Psychoanalytic, among others. (Prerequisite: Semester 3 standing and one 100-level English literature course.)

**26-290. Introduction to Rhetoric**

A survey of historical and theoretical aspects of rhetoric from the fifth century BCE to the present, including an examination of the relationship between rhetoric, epistemology, ethics, and politics. (Prerequisite: Semester 3 standing and one 100-level English literature course.)

**26-291. History of the English Language**

A survey of the background and origins of the English language and its various forms from Old English to the end of the eighteenth century. (Prerequisite: Semester 3 standing and one 100-level English literature course.)

**26-293. Modern English and Linguistics**

A survey of linguistics (the study of languages as systems), with particular emphasis on the English language. (Prerequisite: Semester 3 standing and one 100-level English literature course.)

**300-LEVEL ADVANCED UNDERGRADUATE COURSES**

*NOTE: Requirements for all 300 level English Department courses: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.*

**26-301. Gender and Literature**

A study of how gender is constructed in texts from a variety of periods, with emphasis on cultural contexts, feminist theory, and notions of gender and sexuality. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-302. Writing About the Arts (Practicum)**

A practicum in writing about contemporary forms of artistic expression. Students will write in multiple genres, exploring connections between art, its social and cultural contexts, and their own experience. Coursework and assignments will be complemented by interactive explorations of a variety of art forms. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-304. Creative Writing II: Special Topics**

An advanced workshop featuring a specific genre, approach, or subject. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Portfolio approval is required for admission.) (May be repeated for credit if topics are different.) (Not available on an Audit basis.)

**26-305. Editing Practicum**

A practicum in the theory and practice of editing historical, scholarly, and creative works. Students will be directly involved with current editorial projects in the Department. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Permission of the instructor required.) (Not available on an Audit basis.)

**26-306. Publishing Practicum**

This course introduces students to theoretical and practical aspects of book production and provides a framework to apply knowledge and skills to concrete projects. Students will oversee the creation of a bound publication working with a finished,

edited manuscript. The course will focus on project management, budgeting, author relationships, design, production, publicity, sales and marketing. This course covers the fundamentals of pre-publication planning as well as pre-press and printing production, principles of graphic design, and issues surrounding copyright. The emphasis of the course is on praxis; students are expected to make decisions at each stage of production, from choosing a printing house to determining the best way to promote and market the finished book. Completed projects will be published through a professional Press, or in the format of a scholarly journal. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-307. Writing Hypertext (Practicum)**

A study of the aesthetic and textual principles of hypertext and contemporary theories of writing, reading, and textuality. Assignments in web-page creation will provide media literacy and HTML skills. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Not available on an Audit basis.) (1 lecture, 2 lab hours per week.)

**26-309. Scholarship and Bibliography (Practicum)**

A study of literary research methods and textual scholarship. Includes practice in research techniques and in bibliographic description, the study of editing procedures, and the examination of the historical and theoretical contexts of textual production. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-310. Middle English Literature**

A study of post-1066 Medieval literature, excluding Chaucer. Texts will be read in normalized Middle English. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-312. Chaucer**

A study of the major works of Chaucer, including *The Canterbury Tales*. Texts will be read in normalized middle English. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-314. Topics in Medieval Literature**

Studies in Medieval literature, with changing emphasis on particular themes, genres, or authors. Topics might include Old English or Medieval Romance. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Students may not receive credit for both 26-314 and 26-214 if the topic is Medieval Romance.) (Students may not receive credit for both 26-314 and 26-311 if the topic is Old English.)

**26-322. Topics in Renaissance Literature**

Studies in Renaissance literature, with changing emphasis on particular themes, genres, or authors. Topics might include Milton and *Paradise Lost*, early seventeenth-century lyric, or literature of the English Revolution. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-323. Sixteenth-Century Non-Dramatic Literature**

A study of continuity and change in English literature, culture, and intellectual history in the sixteenth century. Explores canonical and non-canonical poetry and prose by men and women in the context of the European Renaissance and Reformation. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Students may not receive credit for both 26-323 and 26-223.)

**26-324. Seventeenth-Century Non-Dramatic Literature**

A study of continuity and change in English literature, culture, and intellectual history in the seventeenth century. Explores canonical and non-canonical poetry and prose by men and women in an age of religious, political, and scientific revolution. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Students may not receive credit for both 26-324 and 26-224.)

**26-326. Shakespeare I**

A study of selected plays to 1600 (early tragedies, histories, and comedies) from literary and theatrical perspectives. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-327. Shakespeare II**

A study of selected plays from 1600 (tragicomedies, tragedies, and romances) from literary and theatrical perspectives. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-328. Topics in Renaissance Drama**

Studies in Renaissance drama, with changing emphasis on particular themes, genres, or authors. Topics might include Shakespeare in Performance (at the Academy at the Stratford Festival) or drama of the English Renaissance (excluding Shakespeare). (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.)

**26-333. Restoration Literature**

A study of literature in the light of the shifting social, political, and intellectual contexts of 1660-1700. Texts include poetry, drama, fiction, and polemical prose by men and women. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.) (Students may not receive credit for both 26-333 and 26-233.)

**26-334. Eighteenth-Century Literature**

A study of literature from the Augustans to the Romantics. Texts range from poetry to short fiction to journalistic prose by men and women. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature

course. ) (Students may not receive credit for both 26-334 and 26-234.)

**26-335 Restoration and Eighteenth Century Drama-**

A study of English plays and theatre 1660-1800. Writers may include Etherege, Behn, Dryden, Congreve, Steele, Lillo, Goldsmith, and Sheridan. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-335 and 26-235.)

**26-336. Topics in Restoration and 18th-Century Literature**

Studies in Restoration and eighteenth-century literature with changing emphasis on particular themes, genres, or authors. Topics might include eighteenth-century fiction, satire, gender and literature, and colonialism. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-336 and 26-338 if the topic is eighteenth-century fiction.)

**26-343. Early Romanticism**

A study of the literature of late eighteenth-century Britain in its historical and cultural contexts. Writers may include Burns, Austen, Blake, Wollstonecraft, Godwin, Walpole, Wordsworth, and Coleridge. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-343 and 26-243.)

**26-344. Later Romanticism**

A study of the literature of late eighteenth and early nineteenth-century Britain in its historical and cultural contexts. Writers may include Mary Shelley, Keats, Byron, Hemans, P. B. Shelley, de Quincey, and Clare. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-344 and 26-244.)

**26-346. Early Victorians**

A study of responses to industrialization, urbanization, social reform, gender relations, and late Romantic ideas. Writers may include Dickens, Gaskell, Tennyson, Carlyle, and the Brownings. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-346 and 26-246.)

**26-347. Later Victorians**

A study of responses to changing attitudes and values in art and society from mid-century to the death of Queen Victoria. Writers may include Arnold, Eliot, the Rossettis, Hardy, and Wilde. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-347 and 26-247.)

**26-348. Topics in Victorian Literature**

Studies in Victorian literature with changing emphasis on particular themes, genres, or authors. Topics might include the "Woman Question", representations of empire, literature of the fin-de-siècle, the Brontës, the working-class question, or Victorian gothic. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-349. Topics in Romantic Literature**

Studies in Romantic literature with changing emphasis on particular themes, genres, or authors. Topics might include Romantic biography/autobiography, landscape and representation, Romantic women writers, the Jacobin novelists, Romanticism and race, or the gothic. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-352. Modern British Literature**

A study of works published in the first half of the twentieth century. Writers may include Hopkins, Hardy, James, Conrad, Lawrence, Eliot, Woolf, Ford, and Auden. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-352 and 26-251.)

**26-353. Contemporary British Literature**

A study of works published since the mid-twentieth century. Writers may include Orwell, Jones, Greene, Golding, Spark, Fowles, Pinter, Stoppard, Caryl Churchill, Dylan Thomas, Amis, Larkin, Hughes, and D. M. Thomas. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-353 and 26-252.)

**26-354. Literature and Postcolonialism**

A study of the literature of nations and peoples responding to various forms of oppression, including colonization, racism, assimilation, and genocide. Introduces relevant theory and focuses on contemporary English-language texts from Africa, the Caribbean, South Asia, North America, and elsewhere. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-355. Modern Irish Literature**

A study of works published since the start of the twentieth century. Writers may include Yeats, Joyce, Synge, O'Casey, Clark, Beckett, Kavanaugh, O'Brien, Kinsella, Trevor, and Heaney. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-356. Drama of the Twentieth Century**

A study of drama from the end of the nineteenth century. Writers may include Ibsen, Chekhov, Strindberg, Shaw, Beckett, Ionesco, and Pinter. All works will be read in English. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-356 and 26-254.)

**26-357. Topics in Modern and Contemporary British Literature**

Studies in modern and contemporary British literature with changing emphasis on particular themes, genres, or authors. Topics might include literary impressionism, poets of WWI, or the mid-length poem. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-358. Native Literatures and Cultures**

A study of literature by First Nations and Aboriginal writers from Canada, the United States, New Zealand, and Australia. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-358 and 26-204.)

**26-361. Topics in Canadian Literature**

Studies in Canadian literature with changing emphasis on the literature of a particular region or community, a particular genre, or select authors. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-366. Canadian Poetry**

A study of significant modern and contemporary Canadian poetry. Discussion may include questions of form, voice, place, identity, and community. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-366 and 26-266.)

**26-367. Canadian Fiction**

A study of significant modern and contemporary Canadian short stories and novels. Discussion may include questions of identity, place, form, voice, and community. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-367 and 26-267.)

**26-371. Topics in American Literature**

Studies in American literature, with changing emphasis on particular themes, genres, or authors. Topics might include American gothic, 19th-century citizenship, African-American literature, or the Harlem Renaissance. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-372. American Literature: Colonialists to Civil War**

A study of the emergence and development of American literary identity from the earliest settler writings through to the American Renaissance. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-372 and 26-274, or for both 26-372 and 26-275.)

**26-373. American Literature: Civil War to Realists**

A study of innovations in style and subject during the period between the Civil War and World War I. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both [26-373](#) and [26-275](#), or for both 26-373 and 26-276.)

**26-374. The American Moderns**

A study of American writing in the period between the World Wars, including expatriates in Europe. New styles of poetry, drama, and fiction will be considered in the context of contemporary events. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-374 and 26-278.)

**26-375. The Literature of Contemporary America**

A study of post-WWII American literature in the contexts of contemporary social and artistic change. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-375 and 26-279.)

**26-383. Topics in Literary or Cultural Theory**

Studies in selected theories, theorists, or movements and countermovements in contemporary literary theory, cultural studies, or intellectual history. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-392. Language Variation**

A study of how languages differ and change in time and space. Topics covered will include dialects, stylistic differences, and the mechanisms and causes of language variation. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. ) (Students may not receive credit for both 26-392 and 26-292.)

**26-395. Topics in Language and Linguistics**

Studies in language and linguistics, with changing emphasis on an area or subfield of linguistics (e.g., syntax or sociolinguistics) or of a related field. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-397. Advanced Composition Theory and Practice**

A study of the relationship between theory and practice in Composition. Applying theories of Composition and writing in a variety of genres, students will examine how people write and how discourse is produced and circulated. (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

**26-399. Topics in Composition and Rhetoric**

Studies in Composition and Rhetoric, with changing emphasis on particular aspects of these fields. Topics might include literacy studies, visual rhetorics, or rhetoric and contemporary society. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course. )

#### DIRECTED READINGS

##### **26-401 to 26-410.**

Directed Readings are offered only under exceptional circumstances, and only with the written permission of the Department Head.

#### SEMINAR COURSES

##### **26-411. Seminar in Medieval Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-412. Seminar in Renaissance Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-413. Seminar in Restoration and Eighteenth-Century Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-414. Seminar in Romantic Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-415. Seminar in Twentieth-Century British Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-416. Seminar in Canadian Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-417. Seminar in American Literature**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-418. Seminar in Literary or Cultural Theory**

(Prerequisite: Semester 7 standing and ten English courses, including 26-280.)

##### **26-419. Seminar in Language and Linguistics**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-420. Special Topics Seminar**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-424. Seminar in Literature of the Victorian Period**

(Prerequisite: Semester 7 standing and ten English courses.)

##### **26-498. Creative Writing III: Seminar**

(Portfolio approval is required for admission.) (A 6.0-credit, two-term course.)

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## ENVIRONMENTAL STUDIES: COURSES

### 58-100. Introduction to Environmental Studies

This course introduces concepts, issues, and practices of Environmental Studies, emphasizing social, political, cultural, ethical, and ecological interactions between nature and society and involves concepts and research strategies from across the social and physical sciences. Topics may include conservation and development, forestry management, desertification and agricultural sustainability, energy production and use, the politics and science of global climate change, and the role of geographic scale in framing environmental problems. (Open only to students in the BES program.)

### 58-499. Environmental Studies Research Project

Each student will be required to carry out an original research project in environmental studies and write a report under the supervision of one of more faculty members. The research topic can be in an area relevant to Environmental Studies (e.g., physical geography, sociology, philosophy, political science, etc.) Or be interdisciplinary. (Prerequisite: Restricted to students in the program with a minimum G.P.A. of 8.0 and who are in their 7th or 8th semester of enrollment in the Environmental Studies Program. Students must consult with an Environmental Studies counsellor prior to enrolling in this course.) (6.0 credit hour course which counts as two courses, 2 semester course.)



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	<b>FORENSIC SCIENCE: COURSES</b>
	<b>57-201. Introduction to Forensic Science</b>
	This course will survey the many specialties of Forensic Science, including forensic pathology, entomology, anthropology, biology, botany, geology, etc. Special guest lectures by practicing forensic scientists will give students direct contact with the role they play in the extraction and meaning of evidence.
	<b>57-301. Laboratory in Forensic Science</b>
	Laboratory methods used by forensic scientists are very broad. This course is a survey of the instruments used and the interpretation of the results. The goal of the course is to familiarize the student with not only the instruments, but also their limitations, and the range of practices employed by professionals for the analysis of evidence. (Prerequisite: 57-201 and enrollment in this course is limited to Bachelor of Forensic Science Program Majors.)
	<b>57-302. Pro-Seminar in Forensic Science</b>
	Students and faculty will explore current publications and research in forensic science. It is expected that students will, through reports and discussions, develop a viable research problem for their final year as a Forensic Science Major. (Prerequisite: 57-201 and enrollment in this course is limited to Bachelor of Forensic Science Program Majors.)
	<b>57-303. Forensic Identification</b>
	Practical application of principles and protocols used in forensic identification. Topics range from the expectations of the public in forensic practices to the legal responsibilities of crime scene specialists for evidence identification. Fingerprint theory and practice, image capture and enhancement, crime scene protocols and management, biometrics, and identification as contrasted to systematics are studied. (Prerequisite: 57-201 and enrollment in this course is limited to Majors in Forensic Science and Forensics and Criminology.)
	<b>57-304. Insect Evidence</b>
	Use of insects in forensic investigations covers a range of topics. Students will become familiar with insect taxonomy, anatomy, physiology, behaviour and ecology and apply this knowledge in studying the utility of insects within a legal context. The course will cover the detection, collection, identification and analysis of insect evidence, as well as the current state of knowledge in the use of insect evidence. (Prerequisites: 57-201, 55-210)
	<b>57-313. Digital Photography in Forensic Science</b>
	Use of photography in forensic investigations covers a range of techniques. This course builds on students' introduction to forensic photography from 57-303 Forensic Identification. Students will become familiar with different methods of solving problems of focal length, lighting conditions, lens and filter considerations and apply this knowledge in the practical application of crime scene photography. The course will cover the equipment, methodology and preparation of photographic evidence, as well as the current state of technology in the use of digital photography and photographic evidence. (Prerequisites: 57-303).
	<b>57-400. Research and Issues in Forensic Science</b>
	Examination of current controversies in the collection, preservation, and analysis of forensic evidence. Precedent-setting legal cases and judicial enquires. Impact of new technologies. Court challenges to handwriting, DNA, fingerprint, lie detector evidence, etc. (Prerequisite: A 300-level Forensic Science course (57-3xx), and enrolment in this course is limited to Majors in Forensic Science and Forensics and Criminology.)
	<b>57-401. Practicum in Forensic Science</b>
	Students will be assigned a mentor in the world of forensic science. It is expected that they will work one day a week with their mentor developing their skills in a laboratory setting or related facility. An oral and written presentation of their work will be required at the end of the course. (Prerequisite: 57-400 and enrollment in this course is limited to Bachelor of Forensic Science Program Majors.)
	<b>57-402. Research Paper in Forensic Science</b>
	Normally, this course will be based on the development of a research problem in 57-302. Research on an approved topic should be original and make a contribution to the body of knowledge known generally as forensic science. (Prerequisite: 57-400 and enrollment in this course is limited to Bachelor of Forensic Science Program Majors.)

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## FACULTY OF ARTS AND SOCIAL SCIENCES: GENERAL COURSES

The following courses are offered through the Office of the Dean of Arts and Social Sciences. The content and focus of the courses listed span several disciplines, rather than being confined to a single area.

### 01-110. Ways of Knowing

This course investigates a topic through the lens of a variety of perspectives representing the range of learning at the university. Students will see the way specific viewpoints, for example from the arts, sciences, or social sciences, provide very different insights into our world. This course combines classroom instruction with a workshop component in which students will develop the skills of inquiry to explore the world around them. They will have the opportunity to work with senior student mentors and a variety of community and university resources. The topic for each year will be announced in advance and might include: space, time and place; identity and voice; isolation and community; or creativity and invention. (Restricted to students in Semesters 1 and 2 of programs in the Faculty of Arts and Social Sciences.) (Also offered as 02-110.) (1.5 lecture/1.5 tutorial hours a week.)

### 01-150. Foundations of Academic Writing I

A basic course designed to develop effective writing skills for communicating ideas in academic and other tasks. Topics will include: the audience; the writing process; conventions of different prose forms. This is not an ESL course. (Also offered as 02-150.)

### 01-151. Foundations of Academic Writing II

A basic writing course designed as a follow up to Effective Writing. This course aims to develop effective writing skills for communicating ideas in academic and other tasks. Topics will include a cursory review of grammar, writing processes, and conventions of different prose forms in various scholarly disciplines. The main content of the course is paragraph and essay writing, research skills, and forms of scholarly citation. This course is structured as an on-line course. (Prerequisite: 01-01-150/02-02-150 or by assessment.) (Distance Education Course: Mandatory 3 hour orientation during 1st week of classes.)

### 01-190. First-Year Seminars

First-Year Seminars delve deeply into particular problems or topics related to the research interests of the instructor. The Seminars are designed to provide closer interaction with an instructor in a challenging intellectual environment in which students are introduced to the issues, literature, and study methods of the topic area. (Restricted to students in Semesters 1 and 2 of programs in the Faculty of Arts and Social Sciences.) (May not be used to satisfy Major requirements for programs in the Faculty of Arts and Social Sciences.) (May not be repeated for credit.) (Also offered as 02-190.) (3 lecture hours a week.)

### 01-204. Health-Care Ethics through the Life-Span

Explores ethical issues of general interest which arise during the life-span, from conception until death, including methods to prevent contraception, methods to aid in reproduction, medical treatment for children, organ transplantation, research on human subjects, foregoing life-sustaining treatment, advance directives, assisted suicide, and euthanasia. This course is not directed specifically to health professionals.

### 01-209. Ethics in the Professions

Examines what constitutes a profession, its legitimacy, and its authority from society. The responsibilities of professionals to their clients, professions, and society are mapped. Codes of ethics and other statements of ethical standards, conflict of interest, and the roles of regulatory bodies and governments are examined and related to practice through relevant case studies.

### 01-250. Exploring the Hebrew Scriptures

An introduction to reading Hebrew biblical literature. Develops the basic skills for investigating literary, historical, and religious dimensions of the text and uses these skills to explore passages selected from the Torah, Prophets, and Writings.

### 01-252. The Social World of Ancient Israel

An examination of the society of ancient Israel, focusing on the role of religion in the formation and development of the community from the exodus and the tribal confederacy, through the monarchy, to the emergence of Judaism in the post-exilic period. (This course is recommended to be preceded or accompanied by 01-250.)

### 01-400. Mentorship and Learning

An intensive exploration of the theory and practice of learning and leadership by mentoring first year students. Students will mentor first-year students taking the Ways of Knowing interdisciplinary course. They will meet regularly with a group of first-year students and help them complete assignments involving various activities to assist in developing their problem-solving skills. They will also study theories of learning and leadership and engage in seminar discussions. The course will run over two semesters. (Restricted to students in the Faculty of Arts and Social Sciences with at least Semester 5 standing, with consent of the instructor.) (A two-semester, 6-credit course offered in Winter-Fall terms.) (Also offered as 02-400.) (2 lecture/4 lab hours a week.)

### 02-100. Introduction to Canadian Studies

This course emphasizes the transition of Canada from a European colonial society to an immigrant, multicultural society. A multidisciplinary approach will be taken in dealing with the specific problems facing Canada today.

**02-101. The Transition to University**

An introduction to the purposes and processes of university education, emphasizing the skills and strategies needed to make a successful transition to the academic and cultural environment of the University of Windsor. (Open to Semester 1 and Semester 2 students only.) (3 lecture hours a week.)

**02-103. Introduction to North American Studies**

This course offers an introduction to contemporary North American society and a broad spectrum of current issues and debates. A multi-disciplinary approach will be employed in the examination of North American institutions, social issues, politics, history, and culture. (This course is required for students in the North American Studies Certificate Program.) (3 lecture hours a week.)

**02-110. Ways of Knowing**

This course investigates a topic through the lens of a variety of perspectives representing the range of learning at the university. Students will see the way specific viewpoints, for example from the arts, sciences, or social sciences, provide very different insights into our world. This course combines classroom instruction with a workshop component in which students will develop the skills of inquiry to explore the world around them. They will have the opportunity to work with senior student mentors and a variety of community and university resources. The topic for each year will be announced in advance and might include: space, time and place; identity and voice; isolation and community; or creativity and invention. (Restricted to students in Semesters 1 and 2 of programs in the Faculty of Arts and Social Sciences.) (Also offered as 01-110.) (1.5 lecture/1.5 tutorial hours a week.)

**02-150. Foundations of Academic Writing I**

A basic writing course designed to develop effective writing skills for communicating ideas in academic and other tasks. Topics will include: the audience; the writing process; conventions of different prose forms. This is not an ESL course. (Also offered as 01-150.)

**02-151. Foundations of Academic Writing II**

A basic writing course designed as a follow up to Effective Writing. This course aims to develop effective writing skills for communicating ideas in academic and other tasks. Topics will include a cursory review of grammar, writing processes, and conventions of different prose forms in various scholarly disciplines. The main content of the course is paragraph and essay writing, research skills, and forms of scholarly citation. This course is structured as an on-line course. (Prerequisite: 01-01-150/02-02-150 or by assessment.) (Distance Education Course: Mandatory 3 hour orientation during 1st week of classes.)

**02-190. First-Year Seminars**

First-Year Seminars delve deeply into particular problems or topics related to the research interests of the instructor. The Seminars are designed to provide closer interaction with an instructor in a challenging intellectual environment in which students are introduced to the issues, literature, and study methods of the topic area. (Restricted to students in Semesters 1 and 2 of programs in the Faculty of Arts and Social Sciences.) (May not be used to satisfy Major requirements for programs in the Faculty of Arts and Social Sciences.) (May not be repeated for credit.) (Also offered as 01-190.) (3 lecture hours a week.)

**02-210. Religious Fundamentalism and Contemporary Culture**

A comparative cross-cultural examination of the emergence of fundamentalism within the major religious traditions in the modern world. Issues include the impact of fundamentalism on notions of pluralism, separation of church and state, religious tolerance, violence, peace-keeping, free speech and apocalyptic beliefs.

**02-250. Basic Quantitative Methods in the Social Sciences**

Introduction to measurement of variables, organization and description of numerical data, testing hypotheses, inference, and interpretation of findings in the Social Sciences. Topics include descriptive statistics, normal distribution, probability, sampling, hypothesis testing, t-tests, correlation, and chi-square tests. (Antirequisite: 65-205, 65-250, 65-251, 73-102, 73-105, 73-205, 85-222, and 95-269.)

**02-300. Remembering Canada in the Global Village**

An examination of how Canada was constructed as a modern technological society. The course explores how this has been critically analyzed in terms of dependency, both economic and cultural, challenges the analysis, and presents other images and possibilities for being Canadian in the emerging global technological order.

**02-400. Mentorship and Learning**

An intensive exploration of the theory and practice of learning and leadership by mentoring first year students. Students will mentor first-year students taking the Ways of Knowing interdisciplinary course. They will meet regularly with a group of first-year students and help them complete assignments involving various activities to assist in developing their problem-solving skills. They will also study theories of learning and leadership and engage in seminar discussions. The course will run over two semesters. (Restricted to students in the Faculty of Arts and Social Sciences with at least Semester 5 standing, with consent of the instructor.) (A two-semester, 6-credit course offered in Winter-Fall terms.) (Also offered as 01-400.) (2 lecture/4 lab hours a week.)

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## GEOGRAPHY: COURSES

### HUMAN GEOGRAPHY

For course descriptions in Physical Geography (67-), see Earth Sciences.

Not all courses listed will necessarily be offered each year.

#### **42-131. Introduction to Cultural Geography**

An examination of social and cultural systems as they affect the relationship of humankind to the environment, with a special focus on world population dynamics and patterns of food supplies and nutrition, spatial patterns of religions, languages, and ethnicity at national and international levels. (3 lecture hours a week.)

#### **42-200. Introductory Resource Management**

Basic concepts pertaining to natural resources, the impact of their use on the ecosystem, and the problems in their management. Emphasis will be placed on the growing demand for resources, the functional interaction between human society and its physical environment, and the spatial patterns of resource use and ecological impact. (3 lecture hours a week.)

#### **42-231. Intermediate Statistics**

After a review of univariate and bivariate statistical methods, an introduction to multivariate statistics for geographers and planners. Computer analysis of selected geographical data sets. (Also offered as Sociology 48-308 and Planning 50-231.) (Prerequisite; 02-250 or equivalent.) (2 lecture, 2 laboratory hours a week.)

#### **42-249. Political Economy of Agriculture and Food**

Study of the physical, cultural, economic, and political factors influencing the spatial patterns and regional problems of world agriculture. (3 lecture hours a week.) (Also offered in Political Science 45-249.)

#### **42-312. Political Geography of Russia and the Former Soviet Republics**

An overview of the physical, cultural, historical, and political forces shaping the region and aspects of internal and international politics in the region. (Also offered as Political Science 45-237.) (3 lecture hours a week.)

#### **42-313. Economic Geography of Russia and the Former Soviet Republics**

An overview of the geographical characteristics and government policies that shaped the centrally-planned economy of the former U.S.S.R. and problems of restructuring in the post-Soviet period. (3 lecture hours a week.)

#### **42-315. Geography of Western Europe**

An overview of the physical, historical, economic, and political forces that shape Western Europe. (3 lecture hours a week.)

#### **42-361. Introduction to African Development**

A multidisciplinary course introducing students to developmental issues currently confronting African countries and peoples, focusing on the sub-Saharan region. Using a sectoral approach, including health, education, agriculture, and the environment, the course reviews multiple and conflicting approaches to development and addresses both the potentials and the barriers associated with them. (Also offered as Sociology 48-325 and Anthropology 49-325.)

#### **42-392. Urban Systems**

Urbanism as a progenitor of economic change is examined from various theoretical perspectives and selected case studies. (3 lecture hours a week.)

#### **42-450. Advanced Topics in Geography**

Directed readings and research on a topic selected in consultation with instructor. (2 lecture hours a week.) (Also offered as Planning 50-490.) (Credit may be obtained for only one of 42-450 or 50-450.)

#### **42-491. Geography Research Projects**

Guided research based on primary and secondary sources on a research project. (Prerequisite: 50-490.) (Compulsory for four-year Honours, make-up, or special students.) (Also offered as Planning 50-491.)

# Winter 2008 Undergraduate Calendar

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All courses are three hours a week (3.00 credit hours).</p> <p>Some courses are labeled I and II. These numbers are meant to distinguish the subject matter. Except where specifically indicated this does not imply the order in which the courses must be taken.</p> <p><b>43-101. Heroes, Hype, and History, 2500 BCE - 1600</b> By focussing on the theme of the heroic individual and the heroic cause, this course will provide an overview from the Mesopotamian establishment of the heroic mould with Gilgamesh in 2500 BCE to the cosmic myths debated during the scientific revolution in the sixteenth century. The course examines changing criteria for the hero/heroine and how these have provided role models as well as alternative frameworks for contemporary values. (2 lecture hours and 1 tutorial hour.)</p> <p><b>43-102. Heroes, Hype, and History, 1600 to the Present</b> By focussing on the theme of the heroic individual and the heroic cause, this course will provide an overview from the early modern period to the present by exploring the lives of particular heroes, beginning with Louis XIV and ending with Diana, Princess of Wales. The course examines changing criteria for the hero/heroine and how these have provided role models as well as alternative frameworks for contemporary values. (2 lecture hours and 1 tutorial hour.)</p> <p><b>43-123. The World in the Twentieth Century: 1914-1945</b> Causes of the First World War, inter-war diplomacy, the rise of anti-colonialism, the breakdown in collective security and the growth of new international organizations. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)</p> <p><b>43-124. The World in the Twentieth Century: 1945-Present</b> The Cold War, decolonization, the growth of new international cultures and organizations, and the collapse of Communism, with an emphasis on contrasting Third and First World perspectives on these issues. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)</p> <p><b>43-197. Selected Topics</b> Topics of current interest in history which may vary from year to year. (May be repeated for credit if content changes.)</p> <p><b>43-200. Historical Method</b> This course focuses on the contemporary practice of history as a discipline. It also provides an historical overview of approaches to understanding the past, and practical guidance on such matters as bibliographical tools and essay writing. (Restricted to History majors, except with consent of the instructor.) (Prerequisites: two History courses at the 100 level, or consent of the instructor.)</p> <p><b>43-201. Modern Europe: The Formative Period. 1500-1815</b> This course examines the political and cultural transformation of Europe from the Renaissance/Reformation to the French Revolutionary era. Particular emphasis is given to religious ideologies, the nation state, absolutism, the scientific revolution and the Enlightenment. (3 lecture hours a week.) (Students cannot receive credit for both 43-115 and 43-201.)</p> <p><b>43-202. Modern Europe: The Contemporary Age, 1815 to the Present</b> This course examines the political and cultural transformation of Europe from the Napoleonic era to the end of the twentieth century. Particular emphasis is given to the French and industrial revolutions, the politics of revolution, repression and imperialism, the two world wars, fascism and communism, and the reconstruction of society and culture in the late twentieth century. (3 lecture hours a week.) (Students cannot receive credit for both 43-116 and 43-202.)</p> <p><b>43-207. Early Modern England, 1485-1714</b> An examination of the political, religious, economic, and social developments involved in England's transition from a medieval realm to a modern state, with attention to the dynastic worlds of royalty, the effects of the reformation of religion, and the conflict between Crown and Parliament. (3 lecture hours or 2 lecture hours/1 tutorial hour a week.)</p> <p><b>43-208. Modern Britain, 1714 - Present</b> An examination of the political, economic, social and cultural developments involved in Britain's experience as the first industrial nation and greatest imperial power, with attention to political and social reform, the women's movement, the world wars, the welfare state, and the European Union. (3 lecture hours or 2 lecture hours/1 tutorial hour a week.)</p> <p><b>43-214. Early Middle Ages, c. 500-1100</b> The transition from ancient to medieval society: development of institutions (feudalism, monasticism, etc.); church and state up to the Gregorian Reforms. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)</p> <p><b>43-216. Witchcraft and Wicca: Their Historical Relationship</b> An examination of the phenomenon of witchcraft from an historical-social perspective, especially as reflective of attitudes towards women. A study of the roots and continuing expressions of Wicca in the ancient goddess cult of Europe, especially the Celtic and Germanic traditions, and including folk traditions.</p> <p><b>43-218. War in the 20th Century</b> This course will focus on the global conflicts involving the military forces of Europe, North and South America, and Asia. Topics to be covered may include: the decline of Eurocentrism, genocide, total war, and the inclusion of civilian targets.</p>
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**43-243. Canada from Early European Contacts to the Origins of Confederation, 1600-1867**

Canada as a French colony and under early British rule: explorers, fur traders and Aboriginal Peoples; government, land systems and the Church in New France; the conquest; changing British policy 1763-1791; Upper and Lower Canada; the rebellions of 1837, the achievement of responsible government and the origins of Confederation. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-244. Canada since Confederation, 1867 to the Present**

Canada as an emerging nation; Aboriginal Peoples; the development of political parties; the background of Confederation and the nature of Canadian federalism: Macdonald and Laurier as nation builders; twentieth century political, economic and cultural developments; Canadian autonomy; foreign policy. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-246. Aboriginal Peoples in Canadian History: Beginnings to Mid-Nineteenth Century**

This course examines the experiences of Aboriginal Peoples in North America and their impact on the history of what is now Canada to the mid-nineteenth century. Topics include pre-European Aboriginal Canada, accommodation and resistance to the European presence, involvement in the fur trade and economy, and the impact of European settlement. (2 lecture, 1 lab hour per week.)

**43-247. Aboriginal Peoples in Canadian History: Mid-Nineteenth Century to the Present**

This course examines the experiences of Aboriginal peoples and their impact on Canadian history from the mid-nineteenth century to the present. Topics may include the relationship between Aboriginal peoples and the Canadian state, negotiations and conflict over land and resources, the cultural, social and economic impact of interactions with non-Aboriginal society, political and protest movements, court challenges and the modern treaties, and cultural reclamation. (2 lecture, 1 lab hour per week.)

**43-249. Women in Canada and the United States, 1600-1870**

This course will focus equally on the lives of women in Canada and the United States from the period of native-European contact to the mid-nineteenth century. Work, family and sexuality, cultural ideals, and political status and activism among native women and women of African and European origins will be examined and compared. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-250. Women in Canada and the United States, 1870-Present**

This course will focus equally on the lives of women in Canada and the United States from the mid-nineteenth century to the present. Native, black, immigrant, and native-born white women's roles in paid and unpaid labour, reform, suffrage, and family and cultural life will be examined, and Canadian and American women's experiences compared. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-251. History of Women's Movements in North America**

An exploration of the collective action of women in the past and present in North America. Areas of study may include women's involvement with the temperance, civil rights, suffrage, trade union, environmental, reproductive rights, and women's liberation movements. (Also offered as Women's Studies 53-200.) (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-261. History of the United States I**

From the beginning of the colonial period to the Civil War. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-262. History of the United States II**

From the Civil War to the present. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

**43-272. Modern Latin America**

Nation-states in Spanish America, Brazil and the Caribbean, from the revolutions of independence to the new Pan-Americanism. The course covers patterns of development shared throughout the continent and examines key events and personalities in individual countries to illustrate them.

**43-287. History of Crime**

This course will examine the changing nature of crime and criminal justice. Stress will be placed on the ways in which crime and criminal justice were shaped by the societies in which they occurred and on the ways in which they changed as these societies changed.

**43-297. Selected Topics in History**

Topics of current interest selected by the area which may vary from year to year. (May be repeated for credit with permission of a program advisor in History.)

**43-301. Culture, Literacy, and the Printed Word in Modern Europe and North America**

This course is an introduction to the historical study of cultures of the written word, with attention to social, literary, and technological aspects of the book in history. It begins with the oral and manuscript culture of western Europe, assesses the impact of Gutenberg's press, considers the print cultures of early modern and modern Europe, and finishes with the publication of popular novels for the global market of the late twentieth century. (3 hours per week, lecture and discussion)

**43-302. History Workshop**

The "History Workshop" is organized around a series of modules that will give students first hand experience in carrying out historical research and expose them to the sources for doing historical research. The themes of the "Workshop" and the range of methods explored may include: visiting an archive and cataloguing sources, designing a historical web page, using computers for quantitative research, creating videos, or critiquing the presentation of the past in museum exhibits.

(Prerequisite: 43-200.)

**43-316. The Italian Renaissance**

The revival of Antiquity and its subsequent influence on the intellectual, political, and cultural shape of European society. (Prerequisite: 43-201 or consent of instructor.)

**43-317. European Humanism, Reformation and Counter Reformation**

The impact of new ideas (Christian humanism), and innovations (printing press) on European society. (Prerequisite: 43-201 or consent of instructor.)

**43-325. European Cultural and Intellectual History, 1750-1860**

The Enlightenment, Romanticism, the birth of the ideologies, Darwinism.

**43-326. Community and Power in Modern European Thought**

An exploration of the subject of community and power in European thought between 1850 and the late twentieth century. Special attention will be paid to Marxism/Leninism, elitist theory, fascism, and structuralism/poststructuralism. (Also offered as Political Science 45-351.)

**43-336. Becoming Visible: Women in European History**

An examination of attitudes to women, and women's status, roles, and significance in European history, with emphasis on the period from the eighteenth through the mid-twentieth centuries. From time to time, the course might focus on a specific country.

**43-338. Emergence of Modern Europe: Europe from the 19th Century to the Present Day**

Selected aspects dealing with European development in the political, economic, social, diplomatic, and military fields.

**43-345. The History of Canadian Immigration**

Who Belongs? Core questions of nationality; charter groups, minorities and narratives of exclusion; nativism, racism and the social construction of ethnicity; assessments of the Nation's development needs (capital, labour and government); internment, deportation and repatriation; opening the door to diversity and multiculturalism.

**43-347. Cities in North America: Historical Urbanization in Canada**

Thematic studies: economic development of Canadian cities; rivalry between aspiring cities for trade and transportation; city boosters, promoters, boards of trade, rise of transportation and industrialization in urban development. The new urban (social) history: the city below the hill; strangers at our gates; saving the Canadian city; and the city beautiful. The metropolitan thesis: for and against.

**43-349. Canadian Labour History**

A study of the development of the Canadian labour movement and an analysis of the Canadian working-class experience during the nineteenth and twentieth centuries. (Also offered as Labour Studies 54-349.) (Prerequisites: semester 4 standing. Labour Studies majors must have Semester 5 or above standing or consent of instructor.)

**43-350. History of Ontario**

Profile of a province; Oliver Mowat's Ontario; social and cultural issues; the politics of development; metropolitan dominance and regional responses.

**43-361. Slavery In North America, 1600-1877**

Development of racial slavery, including both Amerindians and Africans; emergence of the concept of "race"; male and female experience under slavery; resistance to slavery; abolition.

**43-363. American History, 1945 to the Present**

Selected themes in the political and social history of the United States from the end of World War II to the present. (Prerequisite: 43-262 or consent of instructor.)

**43-368. North American Popular Culture**

This course investigates the character of North American popular culture from the late 19th century to the present; topics include sexuality, sports, youth culture, "the sixties," consumption, the impact of television and Hollywood, consumerism, and music from blues to rap; integration of class, gender, race, ethnicity, sexuality, and issues concerning "memory" will be discussed. Primary sources include literature, film, mass circulation magazines and music. (Prerequisite: semester 4 standing.)

**43-369. African Americans/Canadians After Emancipation, 1877 to the Present**

The experience of racist violence and segregation, struggles for political rights, work lives, migration and immigration, and cultural activity of people of African descent in the U.S. and Canada. Women's and men's lives will be treated equally. (Prerequisite: semester 4 standing.)

**43-397. Selected Topics in History**

Topics of current interest which may vary from year to year. (May be repeated for credit with consent of an advisor in History.)

*History courses at the 400 level are restricted to History majors and to third- and fourth-year majors in other programs with a*

*History component. Others may register only with the consent of the instructor.*

#### **43-400. Historiography**

This course explores the assumptions, theoretical frameworks and research strategies of a coherent body of recent historical writing. The particular area will vary from year to year depending on the expertise of the instructor. Topics may include the writing of national histories, labour/working class, ethnic, native, and women's history, and gender and sexuality in historical context. (Prerequisites: History major with semester 7 standing, and 43-302.) (Students cannot receive credit for both 43-400 and 43-401 or 43-402.)

#### **43-403. Medicine, Healing and the Health Professions**

A social history of medicine, including non-Western and unorthodox traditions, with a cross-cultural focus on healers and an emphasis on the evolution of the allied health professions. Historical settings and thematic emphases will vary from year to year depending on the expertise of the instructor. (Prerequisite: Semester 7 standing or permission of instructor.)

#### **43-408. Culture and Society in Victorian Britain**

Thematic approach to Victorian society and culture. The emphasis of the course may vary from year to year; possible themes for discussion and research include labour and leisure, science and religion, history and memory, gender and sexuality, class and national identity; literacy, literature, and education. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-437. European Diplomacy from the Congress of Vienna to the Present**

Diplomacy in theory and practice from the Congress of Vienna to the present. (Prerequisite: Restricted to history majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-441. Canadian Social History**

Focuses on the experience of Canadians in their daily lives, especially in the period from 1840 up to the Second World War. Subjects will be selected from the major fields of social history, such as labour, women's history, and ethnicity. Attention will be paid as well to methodologies developed in such cognate fields as demography, geography, and economics. (Prerequisites: two courses in Canadian history or consent of instructor. Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-445. Politics and Society in Industrializing Canada, 1890s-1930s**

This course examines how the social, economic and cultural changes associated with modernity and industrialization affected politics and the Canadian state, and how these changes led to new demands from social groups in Canada from the 1890s to the Great Depression. Topics may include changes in political culture and ideology (the "new" liberalism), the beginnings of the interventionist state, the politics of competing nationalisms, and challenges to the liberal order made by women's groups, working class people, and Aboriginal peoples. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of instructor.)

#### **43-446. The Making of Post-War Canada**

This course examines the dynamics of political and social change during and after World War II, with a particular focus on the changing relationship between the state and the Canadian peoples. Topics may include the politics of post-war planning, the expansion of the welfare state, expressions of nationalism (Quebecois and English-Canadian), regionalism, shifts in political culture, the Cold War, relations with the United States, the women's movement and Aboriginal politics. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of instructor.)

#### **43-448. Local History**

The history of Windsor and its metropolitan area from the mid-nineteenth century to the present. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-458. Early American History, 1600-1800**

This course examines selected themes in the political and social history of early America. Among the topics to be studied are European and Native American contacts, the political and social development of the American colonies, slavery, war and society, the changing status of women, and the American Revolution and its aftermath. (Prerequisite: 43-261 or consent of instructor. Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-462. United States-Latin American Relations in the 20th Century**

The rise and shaping of U.S. power in the hemisphere, with emphasis on Latin American responses, and on cultural and other non-governmental exchanges. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-463. The History of Sexuality in North America**

The cultural ideology, social regulation, and experience of reproduction and sexual relations, with an emphasis on women, from 1600 to the present. Topics include interracial relationships, abortion and contraception, sex and social class, sex and slavery, same-sex relationships, and modern sexuality and feminism. (Also offered as Women's Studies 53-463.) (Prerequisite: one of 43-249, 43-250, or 43-251/53-200. Restricted to History and Women's Studies majors and other students with at least semester 5 standing and permission of the instructor.)

#### **43-470. The Era of the Great War**

This course will explore the political, military, cultural and social history of the First World War and surrounding period, primarily in Germany, France, and Britain, but including some attention to Eastern Europe, Africa and Asia. The course will address the historiography of the Great War, with a focus on the experience of the war for soldiers, for women on the home front, for artists, and for those under occupation. (Prerequisites: Restricted to History majors with at least semester 5



standing; and restricted to other students with at least semester 5 standing and permission of instructor.)

**43-497. Selected Topics in History**

Topics of current interest which may vary from year to year. (May be repeated for credit with permission of a program advisor.) (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

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## KINESIOLOGY

### Program Information

The emphasis in the Bachelor of Human Kinetics degree is on providing students with an understanding of human physical activity in its broadest sense, rather than upon the details of professional practice and teaching methodologies.

A Bachelor of Human Kinetics degree may be earned either through a regular, eight-term program of study, or through the twelve-term Co-operative Education Program, which combines classroom and related work term experiences. In both programs, students follow a common core of Kinesiology and other courses and then specialize in one of two honours Majors: Movement Science or Leisure and Sport Management.

### Human Kinetics "Core" Courses and Areas of Study

Requirements for degree programs in Kinesiology make reference to the following groups of courses:

*Bachelor of Human Kinetics "Core" Courses:* 95-210, 95-211, 95-220, 95-230, 95-240, 95-250, 95-260, 95-265, 95-269, 95-270, 95-280, 95-285, and 55-204.

*New Human Kinetics "Core" Courses as of Fall 2008:* 95-265, 95-220, 95-211, 95-280, 95-XXX Health and Wellness (new course to be developed), 95-250, 95-269, 95-XXX Introduction to Exercise Physiology (new course to be developed), 95-270; plus five of 95-210, 95-230, 95-240, 95-260, 95-285, 95-XXX Introduction to Ergonomics (new course to be developed), 95-XXX Introduction to Leisure Studies (new course to be developed, or 95-350.

*Movement Science Major Courses:* 95-301, 95-302, 95-310, 95-333, 95-360, 95-362, 95-370, 95-374, 95-380, 95-400, 95-410, 95-453, 95-460, 95-463, 95-465, 95-471, 95-480, 95-490, and 95-498.

*Leisure and Sport Management Major Courses:* 95-311, 95-320, 95-340, 95-345, 95-350, 95-351, 95-355, 95-405, 95-440, 95-450, 95-451, 95-452, 95-454, 95-473, 95-476, 95-490, and 95-498.

*Practice, Theory, and Analysis Courses:* 95-381 through 95-398.

Any remaining courses numbered 95- not included in the groups above are available to students in any Kinesiology major, subject to individual course requirements.

Upon completion of the Human Kinetics "Core" requirements, students will select a major from Movement Science or Leisure and Sport Management. This selection must be done through the Office of the Registrar prior to registration for the fifth semester, or at the end of the fourth semester.

Kinesiology courses at the 300 and 400 levels are restricted to students who have declared their major in either Movement Science or Leisure and Sport Management. Students from other Faculties(3rd year or above) may take these courses with permission of instructor.

The usual sequence of "Core" courses through the first four academic semesters is:

#### FIRST YEAR

95-210, 95-211, 95-230, 95-240, 95-265, 95-280, and 55-204, and three non-Kinesiology options, at least one of which should be a Science.

#### SECOND YEAR

95-220, 95-250, 95-260, 95-269, 95-270, 95-285, and four non-Kinesiology options, at least one of which should be a Science.

## KINESIOLOGY: CO-OPERATIVE EDUCATION PROGRAM

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## FACULTY OF LAW: SERVICE COURSES

The Law Faculty offers a number of courses which are available for credit toward university degrees and diplomas other than the full-time LL.B. degree. These courses cannot presently be counted as credit for the LL.B. degree because of Law Society Regulations governing qualification for call to the Ontario Bar.

### 99-218. Environmental Law

This course is intended to provide non-law students with a background in environmental law with an emphasis on Ontario environmental legislation. Topics include: introduction to common law, public participation, jurisdictional issues, environmental assessment, Ontario regulations covering air, water and waste management, enforcement, compliance and alternatives to regulations.

### 99-219. Forensic Evidence and the Canadian Legal System

This course is designed as an introduction to the Common Law legal system in Canada and the place of forensic evidence in law. The following topics will be covered: the nature of law and the constitutional basis of legal authority in Canada; the court structure; the nature of the adversarial system and the criminal and civil process; burdens of proof and onus; a primer on the rules of evidence with special emphasis on the opinion of rule and the use of real and demonstrative evidence.

### 98-971. to 98-979. Special Topics Law

These courses provide an opportunity to examine in-depth legal issues not covered in the regular curriculum. The content will vary to reflect student need and faculty expertise.

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## LABOUR STUDIES: COURSES

### 54-100. Labour and Social Movements in Canadian Society

An interdisciplinary introduction to the study of labour and social movements, focussing on their efforts to address the needs of workers, women, gays and lesbians, social and ethnic minorities, students, and the poor.

### 54-105. Working for a Living

This course uses the students' own experiences of work to examine the economic, social, and psychological significance of paid and unpaid work in Canadian society, the tasks and values assigned to various kinds of work, and the relationship between work and living standards.

### 54-200. Labour Law and Policy

An interdisciplinary examination of the relationship between the state, law, and labour unions. This course examines the role of the state and labour law in shaping and mediating the relationship between labour and employers. The impact of laws in labour relations, employment standards, workers' compensation, human rights, and occupational health and safety are examined.

### 54-204. Worker Health and Safety

An interdisciplinary examination of the political, legal, social, and economic aspects of occupational health and safety. This course covers the history of health and safety within industrial, office, and rural contexts in Canada and other parts of the world.

### 54-225. Work and Organizations

An examination of the changing world of work from a variety of theoretical perspectives. The course examines workplace organization, including management strategies and workers' responses. Special topics include: work in the automobile, clothing, or other specific industries, contemporary changes in work organization and organizational issues involving class, ethnicity, and gender. (Also offered as Sociology 48-225.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 3 standing.)

### 54-237. Labour and Social Change

An examination of the philosophical problems raised by the nature and function of labour in a changing society. Topics to be addressed include: the relationship between labour and the struggle for democracy, labour as a social movement, the relationship between labour and conceptions of the good life, the relationship between economic and human value, technology and the nature of labour, and the sexual division of labour. (Also offered as 34-237.) (Prerequisite: 3rd semester standing.)

### 54-301. Labour Movements and Social Change

An examination of various theories of labour movements from an interdisciplinary perspective. The focus is on explaining how and why workers have organized labour unions and on understanding their relative successes and failures in achieving changes in work and in society more generally. The role of workers in revolutionary movements and their contributions to other social movements may also be examined. (Prerequisite: 54-100 and 54-105.)

### 54-310. Special Topics

Topics may vary from term to term; consult with a Labour Studies advisor for details.

### 54-318. Dispute Resolution in Labour Relations

A combination of lectures and simulations aimed at introducing students to the different aspects, methods, and approaches to dispute resolution within the labour relations sphere, including grievance procedures, arbitration, mediation and joint-labour management committees. (Prerequisite: 54-200)

### 54-326. Jobs, Careers, and the Labour Market

An examination of occupations and the changing labour market. This course examines the ways people choose occupations and develop careers, the nature of professions and professionalization, unemployment and its consequences, and the influence of occupations on individuals and society in a wider sense. Special topics include the impact of technological change on the occupational structure of younger and other populations. (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 5 standing.) (Also offered as Sociology 48-326.)

### 54-327. Social Movements

An examination of theories and case studies of world revolutions, class struggles, and various social movements, such as the feminist, gay and lesbian, labour, native, ecological, and other movements. (Also offered as Sociology 48-327.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100.)

### 54-349. Canadian Labour History

A study of the development of the Canadian labour movement and an analysis of the Canadian working-class experience during the nineteenth and twentieth centuries. (Also offered as History 43-349.) (Prerequisites: semester 4 standing. Labour Studies majors must have Semester 5 or above standing or consent of instructor.)

### 54-370. Organizational Psychology

The study of human behaviour in organizational settings and the organization itself. Topics include organizational design, organizational change and development, organizational culture, norms and roles, work motivation, job satisfaction,

communication, work teams decision making, power and politics, and leadership. (Prerequisites: 46-115 and 46-116; or Labour Studies students must have at least Semester 5 standing; or consent of instructor.) (Also offered as 46-370.)

**54-401. Practicum in Labour Studies**

This course offers students the opportunity to apply their academic studies within labour organization settings or other community organizational contexts. Students will be able to learn about the day-to-day operation and structure of a selected organization through observation of, and discussion with, staff, executive members, and activists. Students will be assigned a major project to carry out for the organization under the supervision of the course instructor and an on-site practicum supervisor. A minimum of three hours per week is required on-site, along with additional time to complete the project. Students will also be expected to meet regularly with the course instructor and to provide oral and written reports on their experiences during the term. (Practicum course is restricted to Labour Studies students with at least semester five standing. Course enrolment is limited and a letter of application is required.)

**54-428. Labour and Globalization**

An examination of the impact of contemporary globalization on work life and working class economic and political mobilization. Particular emphasis is placed on a comparative study of labour movement strategies with a view to understanding the nationally specific and cross national character of these responses. (Also offered as 54-428) (Prerequisites: 48-326 or 54-301).

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC): COURSES**

## ABORIGINAL STUDIES

### 06-100. Introduction to Ojibwe I

Introduces the basic elements of Ojibwe language structure. Students will learn to converse at a basic level using present, past, and future tenses. The emphasis is on using language for describing typical activities and experiences. Extensive oral practice is provided. One specific orthography will be taught.

### 06-101. Introduction to Ojibwe II

A continuation of 06-100. (Prerequisite: 06-100 or consent of instructor.)

## INTERCULTURAL STUDIES

Culture and Ideas: 07-202, 07-203;  
Linguistics: 07-120, 07-220, 07-320;  
Literature: 07-234, 07-235;

Religion and Culture: the following courses may be taken as credit toward Religion as teachable subject for the Faculty of Education - 07-100, 07-221, 07-222, 07-229, 07-230, 07-231, 07-233, 07-322, 07-323, 07-360, 07-371.

### 07-100. Religion and Culture

An introduction to the nature and important functions of religion and religious beliefs in contemporary culture.

### 07-110. Introduction to Arabic I

Introduces vocabulary and the basic elements of Arabic language structure. Students will acquire a basic level of expertise in the four communication skills: listening, speaking, reading and writing. (Only for students with no prior knowledge of Arabic)

### 07-111. Introduction to Arabic II

This course is the continuation of "Introduction to Arabic I". It is designed to increase vocabulary, enhance knowledge of the elements of Arabic language structure and provide additional oral (listening and speaking) and written (reading and writing) communication skills. (Prerequisite: 07-110 "Introduction to Arabic I", or consent of instructor)

### 07-120. Universals of Language

An introduction to the study of language, including theories on the origin of language, types of language, language families and classification, and sounds systems. (Required of all Modern Languages majors; should be taken in the first year of study.)

### 07-137. Introduction to German, Italian, and Spanish Literature

A study of the history and culture of European civilization through salient works of German, Italian and Spanish literature (in English translation).

### 07-202. Culture and Ideas: From the Black Death to the Enlightenment

An interdisciplinary, team-taught survey course focussing on major issues and achievements in European civilization from the late Middle Ages to the era of the Enlightenment, including literary, religious, and philosophical writings as well as art and music.

### 07-203. Culture and Ideas: From the French Revolution to the Present

An interdisciplinary, team-taught survey course focussing on major issues and achievements in Europe and North America in the nineteenth, twentieth, and twenty-first centuries, including development in the visual arts, music, architecture, philosophy, religion, literature and science.

### 07-220. How Words Work

An introduction to morphology, syntax, and etymology in selected Indo-European languages. (Prerequisites: For Modern Languages majors: 07-120. For Classics majors and other non-language majors: second-year standing.)

### 07-221. Justifying Religious Beliefs

Assessing the justification of religious beliefs found in contemporary culture using faith, reason and evidence.

### 07-222. Special Topics in Religion and Culture

An examination of important contemporary religious themes and issues. Since content varies from year to year, students may repeat the course for credit, with prior permission.

### 07-229. Ancient Christianity

An examination of the origins of Christianity within Judaism, including the founding of the primitive Church, the spread of the movement during the apostolic period, its transformation by Greek culture, and its persecution by the Roman Empire until the adoption of Christianity as the official state religion. (Also offered as 11-229.)

### 07-230. Christianity: Early Church to the Reformation

From the fall of the Western Roman Empire, the conversion of Europe, relations between Eastern Greek and Western Latin churches, struggle for supremacy between church and state, rise of monasticism, mysticism, and scholasticism, to the pre-reformation period.

**07-231. Christianity: Reformation to the Modern Age**

The break-up of Christendom and the founding of new religious denominations during the Protestant Reformation of the sixteenth century; the spread of European culture through colonialism; the impact of new cultural developments in the political, scientific, and economic realms to the nineteenth century.

**07-232. Religion in the Ancient World**

An introduction to the religions of ancient Greece, Rome, and the Mediterranean world. (Also offered as 11-371.)

**07-233. Religion and Literature**

An examination of selected religious themes in modern literature.

**07-235. To Auschwitz and Beyond: Reflections on the Meaning of the Holocaust**

An examination of responses to key issues raised by the Holocaust as reflected in postwar culture both in Canada and abroad. (Also offered as 15-235.)

**07-236. Surviving Survival: Reflections on Genocide, War and Trauma**

An examination of the impact of war, genocide, and trauma on individuals and communities, as reflected in film, literature, and the arts.

**07-237. German, Italian and Spanish Literary Traditions**

A study of the forms and structures of German, Italian and Spanish literature (in English translation) including a survey of genres, styles and rhetorical figures. (Cannot obtain credit for both 07-334 and 07-237.)

**07-320. Theories of Second Language Education**

An introduction to current theories regarding how languages are learned, with a special focus on second language education. (Prerequisites: 07-120 and 07-220, or equivalent; non-majors must have taken 4 courses in one of German, Italian, or Spanish, or obtained consent of instructor.)

**07-321. Methodologies for Second Language Education**

An introduction to current methods of second language teaching through an examination of curriculum development, lesson planning and classroom techniques. (Prerequisite: 07-320 or equivalent or permission of instructor.)

**07-322. God and Atheism in Western Culture**

An examination of claims for belief in God, atheism, and postmodern skepticism, including the nature of religious faith, rational arguments for God's existence, revelation, and religious experience. (Prerequisite: Students must have completed at least semester 3 standing or obtained the permission of the instructor.)

**07-323. God and Evil in Western Culture**

An examination of traditional and contemporary attempts to reconcile the world's suffering and anguish with the existence of God. (Prerequisite: Students must have completed at least semester 3 standing or obtained the permission of the instructor.)

**07-360. The Reformation**

An examination of the religious reformations and counter-reformation of the sixteenth century. (Also offered as German 15-360.)

**07-420. Second Language Education Practicum**

SLE students will be required to design a second language education course for a specific clientele, deliver their curriculum and have that curriculum assessed critically. (Prerequisites: 07-320 and 07-321.)

**07-437. Applied Critical Theory**

A hands-on approach to selected theories used to analyze literary texts and films. Students will read and write literary criticism, with an aim to understanding the underlying questions, assumptions, interpretive possibilities and limitations of each theoretical approach. (Cannot obtain credit for both 07-437 and 07-337.)

**MULTICULTURAL STUDIES**

**08-160. Foundations of Civilization**

A study of the origin and meaning of civilization, including an examination of the values and achievements of the earliest civilizations of the Mediterranean and the Orient in the context of Canadian multicultural reality and policy.

**ORIENTAL STUDIES**

Language: 10-100, 10-101.

Oriental Literature, Culture, and Religion: 10-226, 10-317, 10-409.

**10-100. Japanese for Beginners I**

Provides a co-ordinated approach to the basic language skills of listening, speaking, reading, and writing. The elements of the writing system, Hiragana and Katakana, and a limited number of Chinese characters (Kanji) are progressively introduced. (Laboratory work.) (Only for students with no prior knowledge of Japanese.)

**10-101. Japanese for Beginners II**

Continuation of 10-100. (Prerequisite: 10-100 or equivalent.)

**10-226. Yoga**

An introduction to the theory and practice of India's greatest achievement in the area of physical, mental, and spiritual awareness. Topics include: psychology of Yoga, postures, breathing practices, relaxation techniques, diet, concentration and meditation, Kundalini, and also Bhakti Yoga, and Karma Yoga (ways of devotion and social action).

**10-317. World Religions: Eastern**

A comparative introduction to the doctrines, rituals, and ethics of Hinduism, Buddhism, Taoism, Confucianism, Shinto, Zen Buddhism, and selected tribal religions. (Slides and field trips.) (Also offered as Political Science 45-260.)

**10-409. Directed Readings in Oriental Studies**

(May be repeated for credit with approval of Classical and Modern Languages.)

**CLASSICAL STUDIES CLASSICAL CIVILIZATION**

**11-160. Land of the Pharaohs**

An introduction to the civilization of ancient Egypt. Topics will include Egyptian tombs and their treasures, hieroglyphic writing, the mystery of the pyramids, mummification, religious beliefs, and famous personalities from the Egyptian past.

**11-161. Introduction to Greek Civilization**

An introduction to the cultural values and achievements of the ancient Greeks. Topics will include geography, history, mythology, and religion, language and literature, art and daily life. (Recommended for prospective Classical Civilization majors.)

**11-162. Introduction to Roman Civilization**

An introduction to the cultural values and achievements of the ancient Romans. Topics will include geography, history, mythology and religion, language and literature, art and daily life. (Recommended for prospective Classical Civilization majors.)

**11-211. Greek Prose**

An introduction to ancient Greek prose literature from the fifth century BC to the second century AD, with selected readings in translation. Authors may include historiographers, orators, philosophers, or novelists. Topics may vary from year to year. (May be repeated for credit if content changes.)

**11-212. Greek Poetry**

An introduction to ancient Greek poetry from the eighth century BC to the second century AD, with selected readings in translation. Authors may include Homer, Hesiod, other early Greek poets, and dramatists (including those of tragedy, comedy, and the satyr play). Topics may vary from year to year. (May be repeated for credit if content changes.)

**11-221. Latin Prose**

An introduction to ancient Latin prose literature from the 3rd century BC to the 2nd century AD, with selected readings in translation. Authors may include orators, historiographers, novelists, or philosophers. Topics may vary from year to year. (May be repeated for credit if content changes.)

**11-222. Latin Poetry**

An introduction to ancient Latin poetry from the third century BC to the fourth century AD, with selected readings in translation. Authors may include dramatists, epic poets, elegists or satirists. Topics may vary from year to year. (May be repeated for credit if content changes.)

**11-229. Ancient Christianity**

An examination of the origins of Christianity within Judaism, including the founding of the primitive Church, the spread of the movement during the apostolic period, its transformation by Greek culture, and its persecution by the Roman Empire until the adoption of Christianity as the official state religion. (Also offered as 07-229.)

**11-232. Religion in the Ancient World**

An introduction to the religions of ancient Greece, Rome, and the Mediterranean world. (Also offered as 07-371.)

**11-265. Greek Art and Archaeology**

A study of the artistic masterpieces and monuments of ancient Greece. Topics will include the search for Troy, the spirit of Greek sculpture, and Athens in the Golden Age. Presented with colour slides. (Prerequisite: 11-161 or consent of instructor.)

**11-266. Roman Art and Archaeology**

A study of the artistic masterpieces and monuments of ancient Rome. Topics will include the tombs of the Etruscans, the treasures of Pompeii and Rome in the days of the Caesars. Presented with colour slides. (Prerequisite: 11-162 or consent of instructor.)

**11-280. Topics in Classical Culture**

A thematic examination of a single social historical topic in Greco-Roman antiquity. Topics may vary from year to year. (May be repeated for credit if content changes.)



### **11-330. The Ancient World on the Screen**

An exploration of modern depictions of ancient Greece and Rome in movies and/or on television. (Prerequisite: 11-161 and 11-162, or consent of instructor.)

### **11-370. Greek Mythology**

The myths and legends of ancient Greece, with particular attention to the heroic, tragic, and erotic elements. Modern theories about the nature and function of myths are employed in analyzing the Greek tales. (Prerequisite: 11-161 and 11-162, or consent of instructor.)

### **11-372. Roman Mythology**

A study of the myths and legends of ancient Rome. Modern theories of myth will be used to analyze the Roman material. The study will include both literary sources in translation and the portrayal of myth in visual art and in architecture. (11-161 and 11-162, or consent of instructor)

### **11-450. Practicum in Classical Archaeology**

Students will participate in various aspects (e.g. digging, artifact processing and analysis) of the excavation of an ancient Greek or Roman site in Europe. They will also visit and report on several key archaeological sites in the region. (Note: this is a 6-credit-hour course.) (Prerequisites: Admission only by consent of instructor after an interview with the candidate. Experience in Classical Studies courses (numbered 01-11-xxx and/or 01-12-xxx) is highly recommended, though not always essential. Given the nature of archaeological excavation abroad, the assembly of a team of hardworking, emotionally mature, and mutually compatible individuals is of paramount importance. All other factors being equal, preference will be given to Classical Studies majors over non-majors and to more senior students over more junior.)

### **11-460. Directed Readings in Classical Civilization**

Designed for the advanced student who wishes to explore a special area of interest with the aid of a faculty advisor. (May be repeated for credit if content changes.) (Hours by arrangement.)

## **GREEK AND ROMAN HISTORY**

### **12-262. Greek History I: to the End of the Classical Period**

This course is an illustrated survey of the historical and social development of Greek civilization from the Neolithic period (circa 6000 BC) to the death of Alexander the Great (323 BC), with particular emphasis on the political history of Athens in the 6th through 4th centuries BC. Selected readings of Greek texts in translation examine particular events or themes in greater depth. (Prerequisite: 11-161 or consent of instructor.)

### **12-263. Greek History II: To the End of the Hellenistic Period**

This course is an illustrated survey of the historical and social development of Greek civilization from the time of Alexander the Great's conquests (326-323 BC) to Rome's annexation of the last major Greek kingdom, Cleopatra's Egypt, in 30 BC. The continuing role of Greek cities under the Roman Empire can also be examined. Selected readings of Greek texts in translation examine particular events or themes in greater depth. (Prerequisite: 11-161 or consent of instructor.)

### **12-271. Roman History I: To the End of the Republic**

An exploration of Roman social and political history from Rome's earliest foundations to the collapse of the Republic (1000-27 B.C.). This will include a close examination of the Roman conquest of the Italian peninsula, the Punic Wars and Civil Wars of the 1<sup>st</sup> century B.C. as well as the study of such important figures as Hannibal and Julius Caesar. (Prerequisite: 11-162 or consent of instructor.)

### **12-272. Roman History II: To the End of the Empire**

An exploration of Roman social and political history from the establishment of the Empire by Augustus to its fall (27 B.C. - A.D. 476). This will include a close examination of the expansion and administration of the Empire and wars against the Parthians, Persians and Germans as well as the study of individual Emperors and other important literary and historical figures of the time. (Prerequisite: 11-162 or consent of instructor.)

### **12-310. Topics in Ancient History**

This rotating topics course is an in-depth study of some aspect of ancient history that may be thematic or chronological in scope. Required readings usually consist of ancient sources in English translation and/or articles in modern scholarly journals than formal textbooks. May be repeated for credit if content changes. (Prerequisite: at least one 12-2xx course, or by consent of instructor)

## **GREEK LANGUAGE AND LITERATURE**

### **13-100. Introduction to Ancient Greek I**

Designed to equip the beginner with the basic skills needed for reading ancient Greek literature, including the New Testament.

### **13-101. Introduction to Ancient Greek II**

Designed to equip the beginner with the basic skills needed for reading ancient Greek literature, including the New Testament. (Prerequisite: 13-100.)

### **13-200. Intermediate Greek I**

Review of vocabulary and grammar. Readings from classical prose, poetry, or the New Testament. (Prerequisite: 13-101.)

### **13-201. Intermediate Greek II**

Continuation of 13-200. (Prerequisite: 13-200.)

#### **13-450. Directed Readings in Greek Literature**

Designed for the student who wishes to explore a special area of interest with the aid of a faculty advisor. (May be repeated for credit if content changes.) (Hours by arrangement.)

### **LATIN LANGUAGE AND LITERATURE**

#### **14-100. Introductory Latin I**

Designed for the student with little or no background in Latin. Emphasis on attainment of reading skills prerequisite for Latin courses numbered 200- and above, and for practical use in theology, philosophy, medieval studies, linguistics, and comparative literature.

#### **14-101. Introductory Latin II**

Continuation of 14-100. (Prerequisite: 14-100 or consent of an advisor in Classics.)

#### **14-200. Intermediate Latin I**

Designed for students who have previously studied Latin. Review of forms, syntax and grammar. Selected passages from the works of Latin authors may be used. (Prerequisite: 14-101 or permission of a program advisor.)

#### **14-201. Intermediate Latin II**

Review of forms, syntax, and grammar. Selected passages from the works of Latin authors. (Prerequisite: 14-200 or consent of an advisor in Classics.)

#### **14-450. Directed Readings in Latin Literature**

Designed for the student who wishes to explore a special area of interest with the aid of a faculty advisor. (May be repeated for credit if content changes.) (Hours by arrangement.)

### **GERMAN LANGUAGE OPTION**

Requirements for degree programs in German make reference to the following groups of courses:

German Language: 15-100, 15-101, 15-102, 15-200, 15-201, 15-300, 15-301, 15-329

German Literature: 07-137, 07-237, 07-337, 07-437

German Culture: 15-235, 15-260, 15-261, 15-312, 15-336, 15-337, 15-338, 15-360, 15-490

#### **15-100. German for Beginners I**

Basic skills of listening, speaking, reading, and writing. (Only for students with no prior knowledge of German.)

#### **15-101. German for Beginners II**

A continuation of 15-100. Basic skills of listening, speaking, reading, and writing. (Prerequisite: 15-100 or consent of a program advisor.)

#### **15-102. Intensive German for Beginners**

This intensive language-training course combines the content of 15-100 and 15-101 into a single term. Students will obtain credit for two courses. Note: 6 hours of class time per week. (Only for students with no prior knowledge of German) (Antirequisites: 15-100 and 15-101.)

#### **15-200. Intermediate German I**

Review of Grammar and further development of basic language skills. (Prerequisite: 15-101 or permission of a program advisor.)

#### **15-201. Intermediate German II**

This course completes the intermediate level of the German language option. In accordance with the predominantly communicative approach, the main goal is to improve the student's ability to interact in a demanding communicative environment. (Prerequisite: 15-200)

#### **15-235. To Auschwitz and Beyond: Reflections on the Meaning of the Holocaust**

An examination of responses to key issues raised by the Holocaust as reflected in postwar culture both in Canada and abroad. (Also offered as 07-235.)

#### **15-260. German Culture and Civilization I**

An interdisciplinary introduction to political, social, and cultural developments in Germanic lands before 1815. (Taught in English. No prerequisites. May be repeated more than once if content changes.)

#### **15-261. German Culture and Civilization II**

An interdisciplinary introduction to political, social, and cultural developments in Germanic lands from 1815 onward. (Taught in English. No prerequisites. May be repeated more than once if content changes.)

#### **15-300. Advanced German I**

Further study of grammar and syntax. (Prerequisite: 15-201 or consent of Program Advisor.)

#### **15-301. Advanced German II**

Continuation of 15-300. (Prerequisite: 15-300, or consent of a program advisor.)

**15-329. Special Topics in German Language**

(May be repeated for credit if content changes.)

**15-360. The Reformation**

An examination of the religious reformations and counter-reformation of the sixteenth century. (Also offered as 07-360.)

**15-490. Directed Readings in Germanic Studies**

(Prerequisite: Consent of a program advisor.)

**ITALIAN LANGUAGE OPTION**

Requirements for degree programs in Italian make reference to the following groups of courses:

Italian Language: 21-100, 21-101, 21-102, 21-200, 21-201, 21-300, 21-301

Italian Literature: 07-137, 07-237, 07-337, 07-437, 21-450, 21-490

Italian Culture: 21-248; 21-260, 21-261, 21-331, 21-350, 21-356

**21-100. Italian for Beginners I**

Basic language skills of listening, speaking, reading, and writing. (Only for students with no prior knowledge of Italian.)

**21-101. Italian for Beginners II**

Continuation of 21-100. (Prerequisite: 21-100 or consent of a program advisor.)

**21-102. Intensive Italian for Beginners**

This intensive language-training course combines the course content of 21-100 and 21-101 into a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Italian) (Antirequisites: 21-100 and 21-101.)

**21-200. Intermediate Italian I**

Review of Grammar and further development of basic language skills. (Prerequisite: 21-101 or permission of a program advisor.)

**21-201. Intermediate Italian II**

This course completes the intermediate level of the Italian language option. In accordance with the predominantly communicative approach, the main goal is to improve the student's ability to interact in a demanding communicative environment. (Prerequisite: 21-200)

**21-248. Italian Cinema**

The course takes the student on a journey through fifty years of Italian history using subtitled films representative of three pivotal periods. The course is taught in English.

**21-260. Italian Culture and Civilization I**

The cultural traditions of Italy from early times to the end of the Middle Ages. (Taught in English.) (Italian majors will be expected to do assigned work in Italian.)

**21-261. Italian Culture and Civilization II**

The cultural traditions of Italy from the Renaissance to modern times. (Taught in English.) (Italian majors will be expected to do assigned work in Italian.)

**21-300. Advanced Italian I**

Emphasis on reading, understanding and writing commentaries on short literary, historical and journalistic texts with the support of reference tools. (Prerequisite: 21-201 or permission of program advisor.)

**21-301. Advanced Italian II**

Continuation of 21-300. Emphasis on oral discussion of cultural and literary texts and written enhancement of idiomatic usage of the language with the support of appropriate tools. (Prerequisite: 21-300 or permission of program advisor.)

**21-356. Renaissance Ideals: Sculpting the Italian Mind**

This course will focus on the contributions of the Italian renaissance to literature, philosophy, religion, visual arts, political science and the natural sciences. The course will be taught in English.

**21-490. Directed Readings**

Designed for the advanced student who wishes to explore a special area of interest in Italian literature. (May be repeated for credit if content changes.)

**SPANISH LANGUAGE OPTION**

Requirements for degree programs in Spanish make reference to the following groups of courses:

Spanish Language: 23-100, 23-101, 23-102, 23-200, 23-201, 23-300, 23-301, 23-330, 23-331

Spanish Literature: 07-137, 07-237, 07-337, 07-437, 23-450

Spanish Culture: 23-260, 23-261, 23-329

**23-100. Spanish for Beginners I**

Basic language skills of listening, speaking, reading, and writing and an introduction to Hispanic cultures. (Only for students with no prior knowledge of Spanish.)

### **23-101. Spanish for Beginners II**

Basic skills of listening, speaking, reading, and writing and an introduction to Hispanic cultures. (Prerequisite: 23-100 or equivalent.)

### **23-102. Intensive Spanish for Beginners**

This intensive language-training course combines the content of 23-100 and 23-101 in a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Spanish.) (Antirequisites: 23-100 and 23-101.)

### **23-200. Intermediate Spanish I**

Review of Grammar and further development of basic language skills. (Prerequisite: 23-101 or permission of a program advisor.)

### **23-201. Intermediate Spanish II**

This course completes the intermediate level of the Spanish language option. In accordance with the predominantly communicative approach, the main goal is to improve the student's ability to interact in a demanding communicative environment. (Prerequisite: 23-200)

### **23-202. Intensive Intermediate Spanish**

This intensive language-training course combines the course content of 23-200 and 23-201 into a single term. Students will obtain credit for two courses. (6 credit hours; 6 hours of class time per week.) (Prerequisites: 23-100 and 23-101, or 23-102.) (Antirequisites: 23-200 and 23-201.)

### **23-260. Culture and Civilization of Spain**

Readings and discussion, in English, of topics from the history and culture of Spain.

### **23-261. Culture and Civilization of Spanish America**

Readings and discussion, in English, of topics from the history and culture of Spanish America.

### **23-300. Advanced Spanish I**

Further study of grammar and syntax. Written and oral exercises emphasizing subtle and/or particularly difficult grammar points. (Prerequisite: 23-221 or equivalent.)

### **23-301. Advanced Spanish II**

Continuation of 23-300. (Prerequisite: 23-221 or equivalent.)

### **23-329. Topics in Spanish/Latin American Culture**

This course provides an in-depth study of some aspect of Spanish and/or Latin American culture. The course is offered on a rotational basis every three years and may be repeated for credit if content changes. (Prerequisite: at least one 07-137, 07-202 or 07-203, or permission of instructor.)

### **23-330. Language Training through Literature from Spain**

A study of literary texts from Spain as a means to improve language mastery through advanced review of grammatical structures and enhancement of vocabulary. (Permission of Academic Advisor required.)

### **23-490. Directed Study**

(May be taken more than once if content changes.) (Prerequisites will vary depending on the focus of the course.) (Can not obtain credit for both 23-450 and 23-490.)

## **FRENCH STUDIES**

All courses with the prefix 29- are taught in French. Courses are normally offered in one term per year. Not all courses are offered every year. Please contact the French Studies program at the Department of Languages, Literatures and Cultures office or its web site at [www.uwindsor.ca/french](http://www.uwindsor.ca/french).

Courses are three hours a week (3.00 credit hours) unless otherwise indicated. Language and linguistics courses may require laboratory and/or field work.

Antirequisite: An antirequisite is a specific course or level of attainment which, if already successfully completed, does not permit registration for credit in another desired course, or which may not be taken for credit concurrently with another course.

### **29-111. French for Beginners I**

Acquisition of basic reading and writing skills, aural comprehension, and oral practice. No prerequisites. Only for students with no prior knowledge of French. (Antirequisite: Grade 9 French or higher.)

### **29-112. French for Beginners II**

Further training in basic reading and writing skills, aural comprehension, and oral practice. (Antirequisite: Grade 10 French or higher.) (Prerequisite: 29-111, Grade 9 French, or equivalent.)

### **29-113. Preparatory French: Intermediate Level I**

Grammar, acquisition of reading and writing skills, aural comprehension, oral practice. Laboratory work. (Antirequisite: Grade 11 French or higher.) (Prerequisite: 29-112, Grade 10 French, or equivalent.)

**29-114. Preparatory French: Intermediate Level II**

Further training in grammar. Reading and writing skills. Additional aural comprehension and oral practice. Laboratory work. This course is equivalent to Grade 12"U" French or equivalent. (Antirequisite: Grade 12"U" French or equivalent, or higher.) (Prerequisite: 29-113, Grade 11 French, or equivalent.)

**29-121. French Language Training I**

Corrective phonetics. Grammar: norms and functions of the French verb system, nouns, pronouns, and modifiers. Laboratory work, oral practice, composition. (Prerequisite: Grade 12"U" French or Français, or equivalent.) (Antirequisite: any previous 200-level French language training courses.)

**29-122. French Language Training II**

Further study of the norms and functions of the French verb system, nouns, pronouns, and modifiers. Development of reading comprehension. Laboratory work, oral practice, composition. (Prerequisite: Grade 12"U" French or Français, or equivalent.) (Antirequisite: any previous 200-level French language training courses.)

**29-123. Intensive French Language Training I**

This intensive language-training course combines the course content of 29-121 and 29-122 into a single term. (6 credit hours; 6 hours of class time per week.) (Prerequisite: Grade 12 "U" French or Français, or equivalent.) (Antirequisite: any previous 200-level French language training courses.) (Antirequisites: 29-121 and 29-122.)

**29-141. Introduction to Literary Studies**

An introduction to the analysis of literary genres: poetry, drama, and prose fiction. (29-141 is a prerequisite course for all literature courses in French Studies.)

**29-215. Oral Proficiency in French I**

A course designed to improve the student's oral proficiency by means of presentations in class, discussions, acquisition of pertinent vocabulary, analysis of oral grammar and errors, laboratory work, and readings mainly from the francophone press. (May not be taken for credit by native speakers of French.) (Prerequisite: permission of instructor.)

**29-221. French Language Training III**

Effective oral and written communication; practice in the logical development of ideas; vocabulary expansion. (Prerequisites: 29-121 and 29-122, or 29-123.)

**29-222. French Language Training IV**

Effective oral and written communication. Demonstration and discussion of the spoken and written codes, oral exercises, written practice. (Prerequisites: 29-121, 29-122 and 29-221; or 29-123 and 29-221.)

**29-223. Intensive French Language Training II**

This intensive language-training course combines the course content of 29-221 and 29-222 into a single term. Students will obtain credit for two courses. (6 credit hours; 6 hours of class time per week.) (Prerequisites: 29-121 and 29-122, or 29-123.) (Antirequisites: 29-221 and 29-222.)

**29-230. Introduction to Linguistics I**

A survey of fundamental linguistic concepts and ideas of language. Language analysis at the first three levels of description: phonetics, phonology and morphology. (Prerequisite: 29-121 and 29-122, or 29-123, or permission of instructor.)

**29-231. Introduction to Linguistics II**

Language analysis at the remaining levels of description: syntax, semantics, discourse analysis and pragmatics. A brief introduction to sociolinguistics, psycholinguistics and neurolinguistics. (Prerequisite: 29-121 and 29-122, or 29-123, or permission of instructor.)

**29-252. French Classicism**

An introduction to the literature of seventeenth-century France and its principal doctrines. (Prerequisite: 29-141.)

**29-253. The French Enlightenment**

An introduction to the literature and thought of eighteenth-century France. (Prerequisite: 29-141.)

**29-255. French Romanticism**

A study of the romantic aesthetic through the poetry, prose, and drama of major romantic writers of the nineteenth century. (Prerequisite: 29-141.)

**29-257. Realism and Naturalism**

A study of post-romantic prose writing in the nineteenth century. (Prerequisite: 29-141.)

**29-260. Modern French Culture**

A general study of the patterned behaviour which constitutes the modern French cultural system, focusing on its intellectual, sociological, political, and religious aspects. Students will be required to read texts and will also avail themselves of the latest audiovisual technology. (Prerequisites: 29-121, 29-122 .)

**29-270. Introduction to the Cultural Heritage of French Canada**

An introduction to the francophone cultural experience in Canada: through its history, its narrative traditions (prose fiction, drama, poetry) and its works of art. Festivities, home furnishings, lyric and culinary traditions will also be examined. (Prerequisite: 29-121 and 29-122.)

**29-281. Introduction to the Culture of Sub-Saharan Francophone Africa**

The course provides an introduction to various cultures of sub-Saharan Francophone Africa from pre-colonial times to the present. Students will be required to read some historical texts and representative literature. Some television documentaries and movies will also be viewed. (Pre-requisite: 29-141.)

**29-284. The Novel in Quebec and in Other Francophone Regions of Canada**

From the novel of the land to the post-modern novel in Francophone Canada. (Prerequisite: 29-141.)

**29-315. Oral Proficiency in French II**

A course designed to strengthen the student's competence in oral French through intensive training at an advanced level, in both oral expression and aural comprehension. (Prerequisite: permission of instructor.)

**29-325. Error Analysis**

A course designed to strengthen the student's competence in French through an analysis of the three most common sources of errors: the differences between spoken and written French, the first language and the interlanguage (unfinished French grammar) of the student. (Prerequisites: 29-221 and 29-222.)

**29-328. Aspects of Translation I**

A comparative analysis of French and English structures with special emphasis on translation processes. Accompanied by regular exercises in translation. (Prerequisites: 29-221 and 29-222.)

**29-329. Aspects of Translation II**

A comparative analysis of French and English structures with special emphasis on questions of meaning related to the sentence and its context. Accompanied by regular exercises in translation. (Prerequisites: 29-221 and 29-222.)

**29-330. Applied Linguistics**

An introduction to modern linguistic theories about language acquisition, followed by a comparative study of first and second language acquisition and a survey of second language teaching techniques highlighting the linguistic concepts underlying these techniques. (Prerequisite: 29-230 and 29-231.)

**29-332. The History of the French Language**

This course will examine successive stages in the development and formation of the French language from Late Antiquity to the Renaissance. (Prerequisite: 29-230 and 29-231, or permission of instructor.)

**29-333. Sociolinguistic Aspects of Canadian French**

A survey of the main characteristics of Canadian French with emphasis on its variations and varieties. Sociolinguistic concepts are introduced and discussed in relation to the situation of French in Canada. (Prerequisites: 29-230 and 29-231.)

**29-350. French Literature of the Middle Ages and the Renaissance**

This course will examine the major authors and genres of the Middle Ages and the Renaissance, from the twelfth to the sixteenth century, including: the chanson de geste, the love songs of the troubadours, the Arthurian Romance, the sonnets of Ronsard, and the works of Rabelais. (Prerequisite: 29-141.)

**29-353. Poetry from Baudelaire to Surrealism**

A study of post-romantic, modernist poetry from the mid-nineteenth century to the mid-twentieth century. (Prerequisite: 29-141.)

**29-354. The Modern Novel and Theatre**

A study of modern theatre and of the novel from the turn of the century (1900) until the Nouveau Roman. (Prerequisite: 29-141.)

**29-356. Contemporary Francophone Literature and Thought**

The post-modern aesthetic and recent writing in francophone countries (except France and Francophone Canada). (Prerequisite: 29-141.)

**29-357. Contemporary Critical Theory**

An introduction to major critical movements: narratology, semiotics, feminist criticism, reader-response criticism, psychoanalytic criticism, sociocriticism, and genetic criticism. (Prerequisite: 29-141; plus one additional course in literature; note: students planning to pursue a Master of Arts degree are particularly encouraged to take this course.)

**29-383. Drama in Quebec and in other Francophone Regions of Canada**

A study of the main dramatic works in Francophone Canada. (Prerequisite: 29-141.)

**29-385. Poetry in Quebec and in other Francophone Regions of Canada**

A study of the main works of poetry in Francophone Canada. (Prerequisite: 29-141.)

**29-434. The French Lexicon**

Detailed examination of the morphological, semantic and sociolinguistic characteristics of the French lexicon. (Prerequisite: 29-231.)

*SPECIAL TOPICS COURSES*

29-400 to 29-496.

Special topics courses include the 400-series courses listed in the French Studies program. They cover language, linguistics and literature and may take the form of directed readings. (Prerequisites for special topics courses in language and linguistics: 29-230 and 29-231; for special topics courses in literature: 29-141; plus one additional course in literature.)

*DIRECTED READINGS*

29-497 to 29-499.

(Prerequisite: Permission of instructor.)

*STUDIES OUTSIDE THE UNIVERSITY OF WINDSOR*

Students can immerse themselves in the French language and culture by spending their third year at the Université de Nice, France, in a program operated jointly with The University of Western Ontario, The University of Guelph and Memorial University, or can spend their third year at any of the French universities participating in the Ontario/Rhône-Alpes student exchange.

Students can also pursue studies in French at the Université du Québec à Montréal at the undergraduate level, for one or two semesters.

It is also possible to pursue studies in French at Quebec universities with the Summer Language Bursary Programme, or to study in Quebec for a year and be paid as a part-time, second-language monitor.

# Winter 2008 Undergraduate Calendar

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Access to Calculus</b> A variety of pre-calculus topics including coordinate geometry, trigonometric, exponential and logarithmic functions, and algebraic procedures. Introduction to differential calculus. (This course satisfies the prerequisite or admission requirement of Grade 12 "U" Advanced Functions and Introductory Calculus. May not be taken for credit by students registered in programs offered wholly or jointly by the Faculty of Science or Faculty of Engineering for which Grade 12 "U" Advanced Functions and Introductory Calculus, or equivalent, is required for admission.) (Antirequisites: 62-130, 62-140, 62-194, a grade of 70% or greater in Grade 12 "U" Advanced Functions and Introductory Calculus.) (3 credit hours, one hour tutorial per week.)</p> <p><b>62-102. Access to Algebra</b> This course enables students to broaden their mathematical knowledge and skills related to the mathematical topics of vectors, intersections of lines and planes in three dimensional space counting techniques, and mathematical induction. Students will develop an understanding of proofs, using deductive, algebraic, vector and indirect methods. Students will use vector concepts to solve physical problems. (This course satisfies the prerequisite or admission requirement of secondary school Geometry and Discrete Mathematics 12 "U" or equivalent. May not be taken for credit by students registered in programs offered wholly or jointly by the Faculty of Science or Faculty of Engineering for which Grade 12 "U" Geometry and Discrete Mathematics, or equivalent, is required for admission.) (Antirequisites: 62-120, or 62-126, or a grade of 70% or greater in Grade 12 "U" Geometry and Discrete Mathematics (or equivalent).) (3 credit hours, one hour tutorial per week.)</p> <p><b>62-120. Linear Algebra I</b> Linear systems, matrix algebra, determinants, vectors in <math>R^n</math>, dot product, orthogonalization, eigenvalues, and diagonalization. (Prerequisite: Grade 12"U" Geometry and Discrete Mathematics, or equivalent.) (Antirequisite: 62-126.) (3 lecture hours, 1 tutorial hour a week.)</p> <p><b>62-126. Linear Algebra (Engineering)</b> Linear systems, matrix algebra, determinants, vectors in <math>R^n</math>, dot product, orthogonalization, and eigenvalues. (Prerequisite: Grade 12"U" Geometry and Discrete Mathematics, or equivalent.) (Antirequisite: 62-120.) (3 lectures hours, 1 tutorial hour a week.)</p> <p><b>62-130. Elements of Calculus</b> Review of differentiation, exponential functions, and indefinite integrals. Methods of integration, differential equations, partial derivatives. A variety of applications. (Prerequisite: Grade 12"U" Advanced Functions and Introductory Calculus or equivalent, or 62-101.) (May not be taken for credit concurrently with, or subsequent to having obtained credit in 62-140. This course is not a sufficient prerequisite to 62-141, but may serve as preparation for 62-140.) (3 lecture hours, 1 tutorial hour a week.)</p> <p><b>62-140. Differential Calculus</b> Trigonometric functions and identities. Inverse trigonometric functions. Limits and continuity. Derivatives and applications. Mean Value Theorem. Indeterminate forms and l'Hopital's Rule. Antiderivatives. Introduction to definite integrals. (Prerequisite: Grade 12"U" Advanced Functions and Introductory Calculus or equivalent, or 62-101.) (3 lecture hours, 1 tutorial hour a week.)</p> <p><b>62-141. Integral Calculus</b> Antiderivatives. The definite integral and Fundamental Theorem. Techniques of integration. Applications of the definite integral. Approximate integration. Improper integrals. Separable differential equations. Polar and parametric coordinates. (Prerequisite: 62-140.) (3 lecture hours, 1 tutorial hour a week.)</p> <p><b>62-188. Work Term I</b> Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)</p> <p><b>62-190. Mathematical Foundations</b> Logic, sets, relations, functions. Development of skills in theoretical mathematics. (Prerequisite: 60-100 or 62-120.) (2 lecture, 2 tutorial hours a week.)</p> <p><b>62-194. Mathematics for Business</b> Derivatives and marginal analysis. Applications of integration to business and economics. Solutions of linear equations, matrices, linear ine-qualities, simplex method for linear programming. (This course is intended for students in the Faculty of Business Administration.) (Prerequi-sites: Grade 12"U" Advanced Functions and Introductory Calculus or equivalent, or 62-101.) (3 lecture hours, 1 tutorial hour a week.)</p>
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**62-215. Vector Calculus**

Quadric surfaces. Vector differential calculus. Multiple integration. Line and surface integrals. (Prerequisites: 62-141, and 62-120 or 62-126.) (3 lecture hours, 1 tutorial hour a week.)

**62-216. Differential Equations**

Differential equations and Laplace transforms. Series solution of differential equations. Applications to science and engineering. (Prerequisites: 62-141, and 62-120 or 62-126.) (3 lecture hours, 1 tutorial hour a week.)

**62-220. Linear Algebra II**

Rigorous study of the following topics: linear systems, vector spaces, linear transformations, projections, pseudo-inverses, determinants, inner product spaces and applications. (Prerequisites: 62-190 and 62-120.) (3 lecture hours, 1 tutorial hour a week.)

**62-221. Linear Algebra III**

A rigorous treatment of eigenvalues and eigenvectors, diagonalization, similarity problem and canonical form for real and complex matrices; positive definite matrices; computational methods for approximating solutions to systems of linear equations and eigenvalues. (Prerequisite: 62-220.) (3 lecture hours, 1 tutorial hour a week.)

**62-288. Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**62-314. Introduction to Analysis I**

Real numbers. Limits, sequences, and continuity. Differentiation. (Prerequisites: 62-120, 62-141, and 62-190.) (3 lecture hours, 1 tutorial hour a week.)

**62-315. Introduction to Analysis II**

Sequences and series of functions. Uniform and absolute convergence. Power Series. Integration. (Prerequisite: 62-314.) (3 lecture hours, 1 tutorial hour a week.)

**62-318. Complex Variables**

Complex numbers. Analytic functions. Contour integration. Series, Laurent expansions, residues. Application to real integrals. (Prerequisite: 62-215; corequisite: 62-216.) (3 lecture hours, 1 tutorial hour per week.)

**62-321. Abstract Algebra**

Introduction to groups, rings, and fields. (Prerequisite: 62-220 or 62-322.) (3 lecture hours a week.)

**62-322. Number Theory**

Divisibility, congruences, numerical functions. Theorems of Euler, Fermat, and Wilson. Theory of primes and quadratic residues. (Prerequisites: 62-120 and 62-190.) (3 lecture hours a week.)

**62-324. Applied Algebra**

Coding theory in cryptography and informatics; combinatorial designs and finite geometrics. (Prerequisite: 62-222; 62-321 is recommended.) (3 lecture hours a week.)

**62-342. Combinatorics**

Finite combinatorics; counting problems involving set operations, relations and functions; principle of inclusion and exclusion; ordinary and exponential generating functions; recurrence relations. (Prerequisites: 62-141 and 62-190.) (3 lecture hours a week.)

**62-360. Special Functions**

Uniform convergence, Fourier Series, Orthonormal bases, Sturm-Liouville eigenvalue problems, eigenfunction expansions, Gamma function, Bessel functions, Legendre polynomials and functions, and the hypergeometric functions. (Prerequisite: 62-215 and 62-216.) (3 lecture hours a week.)

**62-369. Numerical Analysis for Computer Scientists**

Introductory course in the application of numerical methods using computer oriented algorithms such as finding roots, solving systems of equations, differentiation, integration and optimization. (Restricted to students in Computer Science.) (Prerequisites: 60-141, 62-120, 62-141.)

**62-374. Linear Programming**

Topics covered are: geometric linear programming, the Simplex method, the revised Simplex method, duality theory, sensitivity analysis, project planning and integer programming. Optional topics include: the transportation problem, the upper bounding technique, the dual Simplex method, parametric linear programming, game theory, and goal planning. Completion of some assignments will require the use of computer software packages. This course is intended to help students prepare for some parts of the Society of Actuaries examination on Operations Research (Course 130). Interested students should also take 65-376. (Prerequisite: 62-220 or consent of instructor.) (Antirequisite: 91-312.) (3 lecture hours a week.)

**62-380. Numerical Methods**

Topics covered are: nonlinear equations in one variable, interpolation, numerical integration (quadrature), and linear

systems (direct methods). Optional topics are: numerical differentiation, iterative methods for boundary value problems. Completion of some assignments will require the use of computer software packages. This course is intended to help students prepare for some parts of the Society of Actuaries examination on Numerical Methods (Course 135). (Prerequisites: 62-215, 62-216, and 62-120 or 62-126.) (3 lecture hours a week.)

#### **62-388. Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **62-392. Theory of Interest**

Measurement of interest, elementary and general annuities, amortization schedules and sinking funds, bonds, depreciation, depletion, and capitalized cost. This course helps prepare students for the Society of Actuaries examinations. (Prerequisite: 62-141 or consent of instructor.) (3 lecture hours a week.)

#### **62-410. Real Analysis I**

Lebesgue measure and Lebesgue integral. Differentiation and integration. Radon-Nikodym theorem. (Prerequisite: 62-315.) (3 lecture hours a week.)

#### **62-411. Real Analysis II**

Metric spaces. Topological spaces. Stone-Weierstrass and Ascoli theorems. Classical Banach spaces. (Prerequisite: 62-410.) (3 lecture hours a week.)

#### **62-413. Functional Analysis**

Normed spaces, bounded linear operators, and the Banach dual spaces. The Hahn-Banach Theorem, the Uniform Boundedness Principle, and the Open Mapping Theorem. Weak and weak\* topologies. Hilbert spaces and operators on Hilbert space. (Prerequisite: 62-410.) (3 lecture hours per week.)

#### **62-420. Introduction to Group Theory**

Abstract groups, subgroups, isomorphism theorems, orbits, class equation, quotient groups, Sylow's theorems, metric vector spaces, quadratic forms, basic concepts of orthogonal geometry, the classical groups. (Prerequisites: 62-221 and 62-321.) (3 lecture hours a week.)

#### **62-422. Introduction to Field Theory**

Polynomial rings, splitting fields, The Fundamental Theorem of Galois Theory, Galois' criterion for solvability by radicals, algebraically closed fields, finite fields. (Prerequisites: 62-221 and 62-321.) (3 lecture hours a week.)

#### **62-460. Applied Mathematics Methods I**

General basic concepts for linear partial differential equations. Classification of second-order equations and canonical forms. An introduction to theory of distribution. Sturm-Liouville theory for ODEs. Fourier series and integral transforms with applications to PDEs. (Prerequisites: 62-318 and 62-360.) (3 lecture hours a week.)

#### **62-482. Mathematical Programming**

Topics include: unconstrained optimization, convexity, least squares problems, optimality conditions, penalty methods. Completion of some assignments will require the use of computer software packages. (Prerequisites: 62-215, 62-314, 62-221, and one of 62-374 or 65-376.) (3 lecture hours a week.)

#### **62-488. Work Term IV**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **62-490. Actuarial Mathematics I**

Life contingencies. Survival distributions and life tables, life insurance, life annuities, net premiums, net premium reserves. This course helps prepare students for the Society of Actuaries examinations. (Prerequisites: 62-215, 62-216, 62-392, and 65-251, or consent of instructor.) (3 lecture hours a week.)

#### **62-492. Actuarial Mathematics II**

Selection of topics from: advanced life contingencies, risk theory, survival models, construction and graduation of mortality tables. This course helps prepare students for the Society of Actuaries examinations. (Prerequisite: 62-490 or consent of instructor.) (3 lecture hours a week.)

#### **62-498. Topics in Mathematics**

Advanced topics not covered in other courses. (May be repeated for credit when the topic is different.) (Prerequisite: consent of the instructor.) (3 lecture hours a week.)

### **STATISTICS**

Undergraduate Statistics courses taught outside Mathematics and Statistics may not be taken for credit in any mathematics program.

**65-205. Statistics for the Sciences**

Descriptive statistics. Probability, discrete and continuous distributions. Point and interval estimation. Hypothesis testing. Goodness-of-fit. Contingency tables. (Prerequisite: Grade 12“U” Advanced Level Mathematics or equivalent, or Grade 11 Functions and Relations, or Grade 11 Functions.) (Antirequisites: 02-250, 73-101, 73-102, 73-105, 73-205, and 85-222.) (May not be taken for credit after taking 65-250 or 65-251.) (3 lecture hours, 1 tutorial hour a week.)

**65-250. Introduction to Probability**

Descriptive measures, combinatorics, probability, random variables, special discrete and continuous distributions, sampling distribution, point and interval estimation. (Prerequisite: 62-141.) (3 lecture hours, 1 tutorial hour a week.)

**65-251. Introduction to Statistics**

Distributions, point and interval estimation, hypothesis testing, contingency tables, analysis of variance, bivariate distributions, regression and correlation, non-parametric methods. (Prerequisite: 65-250.) (3 lecture hours, 1 tutorial hour a week.)

**65-340. Applied Probability**

Conditional probabilities and expectations. Markov chains. Poisson processes, renewal theory, reliability, queueing theory. (Prerequisites: 65-251, 62-215 and 62-216.) (3 lecture hours a week.)

**65-350. Probability**

Axioms of theory of probability. Discrete and continuous distributions including binomial, Poisson, exponential, normal chi-square, gamma, t, and F distributions. Multivariate distributions, conditional distributions, independence, expectation, moment generating functions, characteristic functions, transformation of random variables, order statistics, law of large numbers, central limit theorem. (Prerequisite: 65-251.) (3 lecture hours a week.)

**65-351. Statistics**

Point and interval estimations, properties of estimators, methods of estimation, least squares estimation and linear models, Bayesian estimation, Rao-Blackwell theorem, tests of hypotheses, Neyman-Pearson Lemma, analysis of variance. (Prerequisite: 65-350.) (3 lecture hours a week.)

**65-376. Stochastic Operations Research**

Topics covered are: deterministic and stochastic dynamic programming, queueing theory, decision analysis, and simulation. Optional topics include: inventory theory, forecasting, and Markov processes. Completion of some assignments will require the use of computer software packages. This course is intended to help students prepare for some parts of the Society of Actuaries examination on Operations Research (Course 130). Interested students should also take 62-374. (Prerequisite: 65-205 or 65-250.) (Antirequisite: 91-412.) (3 lecture hours a week.)

**65-452. Experimental Designs**

ANOVA models without and with interactions; randomized block, Latin square, factorial, confounded factorial, balanced incomplete block, and other designs; response surface methodology. (Prerequisite: 65-251 or 65-350.) (3 lecture hours a week.)

**65-454. Sampling Theory**

Basic concepts. Simple random and stratified sampling. Ratio and regression methods. Systematic and cluster sampling. Multi-stage sampling, PPS sampling. Errors in surveys. Sampling methods in social investigation. (Prerequisite: 65-251 or 65-350.) (3 lecture hours a week.)

**65-455. Topics in Statistics**

Advanced topics in probability or statistics not covered in other courses. (May be repeated for credit when the topic is different.) (Prerequisite: consent of the instructor.) (3 lecture hours a week.)

**65-456. Regression**

An applied course covering multiple linear regression, model assumptions, inference about regression parameters, residual analysis, polynomial regression, multicollinearity, transformations. Topics to be selected from stepwise regression, weighted least squares, indicator variables, nonlinear regression. (Prerequisites: 62-120 and 65-251.) (3 lecture hours a week.)

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	<b>MUSIC: COURSES</b>
	<b>MUSIC ACADEMIC STUDIES</b>
	Not all courses listed will necessarily be offered each term.
	All courses are three hours a week (for 3.0 credit hours) unless otherwise indicated.
	All Music courses except those whose middle digit is 0 may require consent of the instructor for enrollment.
	<b>32-102. Fundamentals of Music</b> Study of intervals, scales, rhythms, and notation. Practice in reading music and ear training. (May not count toward any Music degree.)
	<b>32-106. The Musical Experience</b> Topics of general interest to the university student, chosen by the instructor. Topics may include: how to listen to music; great composers of Western classical music; popular music idioms. (No prerequisites; open to any student in the university.) (May not count toward any Music degree.)
	<b>32-107. Explorations in Music</b> Aspects of music with broad general appeal. Topics may include: music for the cinema; composer, performer and community; recent trends in the music industry. (No prerequisites; open to any student in the university.) (May not count toward any Music degree.)
	<b>32-112. Music Theory I</b> Examination of basic harmonic, contrapuntal, and formal elements in tonal music. (Admission by examination or consent of the instructor.) (Should be taken concurrently with 32-222.) (3 hours a week , plus 2 keyboard laboratory hours a week.)
	<b>32-113. Music Theory II</b> Continuation of 32-112, which is prerequisite. (Should be taken concurrently with 32-223.) (3 hours a week, plus 2 keyboard laboratory hours a week.)
	<b>32-116. Themes in Popular Music</b> This course explores the cultural, social, and political implications of continuously emerging popular musical styles, primarily in Western cultures. Includes analysis of popular musical styles within various theoretical discussions around technology, mass media, political economy, performance, and listening practices, corporate control, locality, and globalization.
	<b>32-117. Critical Issues in Western Art Music</b> Analysis of historical, critical and social issues in Western art music and their application to a variety of musical styles and genres. (Antirequisites: 32-126, 32-127. Students may not receive credit for both 32-117 and 32-126 or 32-127.)
	<b>32-120. Introduction to Music Therapy</b> A survey of the origins of music therapy from the historic uses of music in healing to present-day theories of practice in various clinical settings. Music therapy techniques demonstrated.
	<b>32-121. Skills for Music Therapy</b> Leadership skills, group management techniques, basic guitar skills for music therapy sessions, and materials for music activities with various ages and populations. Music therapy site observations. (Prerequisite: 32-120 and 33-111 or consent of the instructor.)
	<b>32-126. Music History and Literature I</b> Musical styles from the Middle Ages to about 1750. (Prerequisite: 32-116 or consent of the instructor.)
	<b>32-127. Music History and Literature II</b> Musical styles from about 1750 to the present day. (Prerequisite: 32-116 or consent of the instructor.)
	<b>32-185. Foundations of Music Education</b> Introduction to the foundations and principles of the teaching of music and the role of music in the general school curriculum. The nature and value of music education are examined with reference to major issues, methodologies, and approaches to musical learning, accompanied by observations of selected music teaching situations.
	<b>32-211. American Sign Language &amp; the Disabilities Arts Movement</b> An introduction to American Sign Language (ASL) for all those planning to work or interact with the Deaf community. Focus will be on the development of visual and motor skills necessary for basic receptive and expressive ASL. The disabilities arts movement, signed song performance, and concepts of Deafness as a cultural and community identity will be explored.
	<b>32-212. Music Theory III</b> Examination of more complex harmonic, contrapuntal, and formal elements in tonal music. (Prerequisite: 32-113.) (Should be taken concurrently with 32-322.)

**32-213. Music Theory IV**

Continuation of 32-212, which is prerequisite. (Should be taken concurrently with 32-323.)

**32-222. Basic Skills I**

Intensive drills in ear training, sight singing, dictation, and basic keyboard. (Admission by examination or consent of the instructor.) (Should be taken concurrently with 32-112.) (1.50 credit hour course.)

**32-223. Basic Skills II**

Continuation of 32-222, which is prerequisite. (Should be taken concurrently with 32-113.) (1.50 credit hour course.)

**32-227. Studies in Baroque Music**

Special studies in the history and literature of Baroque music, to be arranged by the instructor. (Prerequisites: 32-126, 32-127.)

**32-232. Music Technology**

Study of the application of digital technologies to the creation of electroacoustic music, audio art, and sound installation. This course will explore the physical nature of sound as well as the history and nature of sound synthesis, MIDI, algorithmic composition, and digital recording. (Prerequisites: 32-113 or 27-105 or 40-214; an ability to read notated music is recommended.)

**32-233. Advanced Music Technology**

A continuation of 32-232; students undertake advanced projects in the areas of electroacoustic music, sound installation, and audio art. Students will gain facility in using recently developed software tools for sound synthesis, signal processing, and interactivity. Collaborative interdisciplinary projects will be encouraged. (Prerequisites: 32-232 or consent of the instructor.)

**32-236. Performance Literature I**

Survey of the literature written for the student's major instrument.

**32-237. Performance Literature II**

Continuation of 32-236, which is prerequisite.

**32-239. Woodwind Techniques**

Fundamental techniques of woodwind instruments and their application in teaching beginners.

**32-246. History of Jazz**

Exploration of music identified as jazz, the role of jazz in North American culture, and the debates that surround jazz in the twentieth and twenty-first centuries. (Prerequisite: 32-116 or consent of the instructor.)

**32-247. Analysis of Jazz Styles**

A stylistic study of major jazz innovators through the analysis of solo transcriptions and recordings. (Prerequisite: consent of the instructor.)

**32-248. Basic Conducting I**

Instruction in baton technique and the conducting of choral and instrumental ensembles.

**32-249. Basic Conducting II**

Instruction in score preparation and rehearsal techniques for vocal and instrumental ensembles. (Prerequisite: 32-248.)

**32-255. Vocal Techniques**

Introduction to working with children's and adolescent voices. Topics include physiology of the voice, tonal placement, care of the teenage voice, the boy's changing voice, solo and group singing. (Prerequisite: 33-213, or 33-317, or 33-347.) (2 lecture hours a week and one laboratory hour a week.) (1.50 credit hour course.)

**32-259. Instrumental Conducting**

Instruction in score preparation and rehearsal techniques for instrumental ensembles. (May not be taken concurrently with 32-249.) (Prerequisite: 32-248.)

**32-260. Church Music and Service Playing I**

Survey of the hymn and psalm and their performance in the church service; improvisational skills. (Prerequisite: consent of the instructor.)

**32-261. Church Music and Service Playing II**

Survey and preparation of service music, anthems, and organ music for the church service; improvisational skills. (Prerequisite: 32-260.)

**32-269. Percussion Techniques**

Fundamental techniques of percussion instruments and their application in teaching beginners.

**32-279. Brass Techniques**

Fundamental techniques of brass instruments and their application in teaching beginners.

**32-289. Guitar Techniques for Music Education**

Fundamental techniques of guitar playing and their application to teaching beginners. Chord charts, rhythm graphs,

traditional note forms, and guitar accompaniment for individual and group singing. Students must supply their own instrument. (May not be taken concurrently with 33-111.) (Prerequisites: 32-113 and 32-223.)

**32-312. Twentieth-Century Techniques**

Techniques of musical expression in the twentieth century, such as serialism, electronic, and aleatory music. (Prerequisite: 32-213.)

**32-313. Twentieth-Century Techniques II**

Continuation of 32-312, which is prerequisite.

**32-317. Film Music**

Exploration of the ways in which film music mediates perceptions of the visual. Includes focus on development of critical listening and interpretive skills using a number of (mostly) Hollywood films as principal texts while introducing a number of political, aesthetic and historical issues. (Prerequisites: 32-116 and one of 32-126, 32-127, 32-246, or 32-346.)

**32-322. Advanced Skills I**

Intensive drills in ear training, sight singing, keyboard harmony, dictation, and improvisation. (Prerequisites: 32-223 and 32-113 and successful completion of the Keyboard Proficiency Requirement.) (Should be taken concurrently with 32-212.) (1.50 credit hour course.)

**32-323. Advanced Skills II**

Continuation of 32-322, which is prerequisite. (Should be taken concurrently with 32-213.) (1.50 credit hour course.)

**32-325. Laboratory Ensemble**

Practice in performance and teaching instrumental ensembles of brass, woodwinds, strings, and percussion. (Prerequisites: 32-259 and one instrumental techniques course.)

**32-327. Studies in Romantic Music**

Special studies in the history and literature of Romantic music, to be arranged by the instructor. (Prerequisites: 32-126 and 32-127.)

**32-330. Theories of Music Therapy**

Study of psychotherapy theories and their relationship to various models of music therapy interventions. Investigation of current research and clinical practice methods. (Prerequisite: 32-120 or consent of the instructor.)

**32-331. Creative Improvisation in Music Therapy**

An examination of improvisational methods of music therapy. Through an experiential process, students explore the therapeutic benefit of music as it relates to sound patterns, movement, drama, and art. Piano improvisation techniques included. (Prerequisites: 32-121 and 32-322.)

**32-336. History of Music Theatre**

The musical stage from the Renaissance through the early twentieth century, with special emphasis on ballad opera, operetta, and musical comedy.

**32-337. Modern Music Theatre**

Landmark productions of the popular musical stage from the mid-twentieth century to the present; "Broadway" and "off-Broadway"; recent trends.

**32-340. Field Practice I**

Supervised observation and practice in selected clinical settings. Assessment, intervention, and evaluation according to appropriate music therapy goals within the given population. (Prerequisites: 32-121, and 32-331.) (Normally 1 lecture hour and 6-8 practical hours a week.) (1.50 credit hour course.) (Open to Music Therapy students only.)

**32-341. Field Practice II**

Continuation of 32-340, which is prerequisite. (1.50 credit hour course.)

**32-342. Voice-leading and Arranging I**

Study of voice-leading techniques with special attention to part-writing. Includes application of various approaches to writing tonal chord progressions, creating contrapuntal musical textures, and balancing melodic and harmonic considerations to the arrangement of music for a wide variety of homogenous vocal and instrumental ensembles. (Prerequisite: 32-213.)

**32-343. Voice-leading and Arranging II**

Continuation of Voice-leading and Arranging I. Advanced study of voice-leading techniques with special attention to part-writing. Includes application of various approaches to writing chromatic and post-tonal chord progressions, creating a range of musical textures, and balancing melodic and harmonic considerations to the arrangement of music for mixed ensembles, electronic orchestras, concert band, and symphony orchestra. (Prerequisite: 32-342.)

**32-346. Music Cultures of the World**

Exploration of music cultures of the world within an ethnomusicological framework, including critical analysis of the discourse surrounding "world music" and conventional understanding of "local" and "global". (Prerequisite: 32-116 or consent of the instructor.)

**32-412. Music Theory Seminar I**

Two- and three-part species counterpoint.

**32-413. Music Theory Seminar II**

Advanced analysis of tonal music. Relation of analysis to performance. (Prerequisite: 32-412.)

**32-420. Psychology of Music**

A study of the principles underlying the practice of music therapy and musical behaviour. The study of psychological aspects of musical behaviour: psycho-acoustics, music perception, affective and physiological responses to music, music learning, and measurement. (Open to non-Music majors.) (Prerequisite: 32-120 or consent of the instructor.) (Also offered as Psychology 46-420.)

**32-422. Advanced Skills III**

Aural recognition of chromatic harmony, non-tonal materials, complex and irregular metres, and large formal structures. Related sight-singing and dictation. Keyboard improvisation in a variety of styles. (Prerequisites: 32-323 and 32-213.) (1.50 credit hour course.)

**32-423. Advanced Skills IV**

Continuation of 32-422, which is prerequisite. (1.50 credit hour course.)

**32-426. Studies in Twentieth-Century Music**

Special studies in the history and literature of twentieth-century music, to be arranged by the instructor. (Prerequisites: 32-126 and 32-127.)

**32-427. Studies in Canadian Music**

Special studies in the history and literature of Canadian music, to be arranged by the instructor. (Prerequisites: 32-126 and 32-127.)

**32-432. New Music Workshop**

This course focuses on the composition, analysis, performance, and studio recording of new music. Students work individually and in groups on a series of projects, thus building a portfolio of work over the course of the semester. Projects may include the composition of new pieces, the performance of new repertoire (including student work), analytical papers that explore an aspect of new music or an individual piece, new media projects with a sound component, and interdisciplinary projects undertaken in collaboration with students from other departments. (May be repeated for credit.) (Prerequisites: 32-213 or consent of the instructor.)

**32-436. Directed Studies in Music I**

Advanced study in a selected area of music. (May be repeated for credit.) (Prerequisite: permission of a program advisor in Music.)

**32-437. Directed Studies in Music II**

Continuation of 32-436, which is prerequisite. (May be repeated for credit.)

**32-440. Field Practice III**

Supervised practice in selected clinical settings for the purpose of further concentration within a given setting. The design, implementation, and evaluation of music therapy treatment programs. (Prerequisite: 32-341.) (1 lecture hour and 6 to 8 practical hours a week.) (1.50 credit hour course.)

**32-441. Field Practice IV**

Continuation of 32-440, which is prerequisite. (1.50 credit hour course.)

**32-443. Orchestration**

Scoring for small ensembles, large orchestra; problems of transcriptions; score study. (2 lecture hours a week.)

**32-458. Conducting Seminar I**

Advanced studies in choral or orchestral conducting. The student will serve as assistant conductor of an ensemble, with practical experience in rehearsal technique, score study, literature, and stylistic analysis. (Prerequisite: 32-249 or 32-259, and consent of the instructor.)

**32-459. Conducting Seminar II**

Continuation of 32-458, which is prerequisite.

**32-470. Performance Pedagogy I**

A survey of the evolution of pedagogy; study of materials relating to beginning and intermediate levels through the discussion and performance of appropriate repertoire. From year to year, different areas of emphasis may be offered, such as piano, organ, or voice. (May be repeated for credit, provided that the area of emphasis is different.) (Prerequisite: consent of the instructor.)

**32-471. Performance Pedagogy II**

A continuation of 32-470, with particular emphasis on the intermediate and advanced levels through the discussion and performance of appropriate repertoire. (Prerequisite: 32-470.)

**32-484. Music Education in the Elementary School**

Review of curriculum materials and teaching methods applicable to elementary and intermediate classrooms. Topics may include such areas as working with the boy's changing voice, teaching instrumental beginners, and teaching music reading skills. Observation of music teaching in the school classroom. (Prerequisites: 32-113, 32-223 and 32-385.)

**32-485. Music Education Seminar Elementary/ Secondary**

Methods of building and maintaining a successful high school music program, including both instrumental and vocal courses. How to develop musical skills and musical knowledge in secondary school students. Review of curriculum materials and performance literature appropriate for secondary schools. Observation of music teaching in the school classroom. (Prerequisites: 32-113, 32-223 and 32-385.)

**32-490. Internship in Music Therapy Professional Practice**

1000 hours of supervised music therapy practice in an off-campus clinical setting. Includes asynchronous online learning. Offered on a pass/non-pass basis. (Prerequisite: Completion of all other course requirements for the Bachelor of Music Therapy with Internship.) (18 hours of learning modules.) (1.5 credit.)

**32-491. Graduation Project**

Independent research or creative activity in the student's individual area of emphasis. The project may take the form of a major research paper, recital of original compositions, or other appropriate vehicle. (Prerequisite: permission of a programme advisor in Music.)

**32-494. Philosophical Foundations of Music Education**

A critical examination of recent developments and issues in the philosophy, theory, history, and sociology of music education. Emphasis will be placed on the development of critical thinking skills needed for application in reflective practice. (Pre- or co-requisites: 32-484 or 32-485.)

**MUSIC PERFORMANCE STUDIES**

All Performance Studies courses except 33-270 are open by audition only.

For courses in Performance Instruction, see "Areas of Study-Performance".

**33-111. Guitar Techniques**

Basic techniques for use with music groups. Chord charts, rhythm graphs, traditional note forms, and guitar accompaniment for individual and group singing. Students must supply their own instrument. (3.0 credit hour course.) (Open to Music Therapy and Music Education students only)

**33-210. University Singers**

Admission by audition. Performance of literature of various styles from all periods. (Normally 4 hours a week.) (May be repeated for credit.) (1.50 credit hour course.)

**33-213. Class Voice**

Instruction in singing fundamentals and repertoire for students who are not voice majors. (Admission by audition.) (Prerequisite: consent of the instructor.) (2 lecture hours a week.) (1.50 credit hour course.)

**33-220. University Wind Ensemble**

Admission by audition. Performance of major works of the band and wind ensemble literature by groups of various sizes. Performances at University convocations, high school assemblies, and University concerts. (Normally 4 hours a week.) (May be repeated for credit.) (1.50 credit hour course.)

**33-230. University Orchestra**

Admission by audition. Performance of works from the orchestral repertoire. (Normally 4 hours a week.) (May be repeated for credit.) (1.50 credit hour course.)

**33-240. Jazz Ensemble**

Admission by audition. Performance of works arranged for standard jazz band instrumentation. (Normally 4 hours a week.) (May be repeated for credit.) (1.50 credit hour course.)

**33-260. Community Orchestra**

Membership by audition. Rehearsals one evening a week; normally one concert given each term. (May be repeated for credit.) (1.50 credit hour course.)

**33-270. Community Choir**

Membership open to everyone without audition. Rehearsals one evening a week, and normally one concert given during the term. (Normally 2.5 hours a week.) (May not count toward the B.Mus. degree.) (Offered on a pass/non-pass basis.) (May be repeated for credit.) (1.50 credit hour course.) (Offered on a pass/non-pass basis.)

**33-310. Chamber Choir**

Admission by audition; limited membership. Selected literature suitable for performance by a small choir. (Prerequisite: 2 terms of 33-210, or 33-220, or 33-230, or consent of instructor.) (May be repeated for credit.) (1.50 credit hour course.) (Normally 4 hours week.)

**33-330. Chamber Music**

Rehearsal, discussion and performance of chamber music literature. Instrumentation according to the demands of each term's repertoire. (Admission by audition and consent of the instructor.) (May be repeated for credit.) (1.50 credit hour course.) (Normally 2 hours a week.)

**33-360. Accompanying**



Accompaniment of solo vocal and instrumental repertoire in various styles; development of skills in sight reading and transposition. (Admission by audition.) (May be repeated for credit.) (Prerequisite: two terms of 33-348, or consent of the instructor.) (Normally 1 to 1.5 hours a week.) (1.50 credit hour course.)

**33-380. Music Theatre Instrumental Ensemble**

Accompaniment of rehearsals and performances of music theatre productions presented by the University of Windsor. enrollment is limited to the instrumentation necessary for the production at hand (normally one production per term), including rehearsal pianists. (Admission by audition.) (May be taken four times for credit.) (1.50 credit hour course.) (Normally 3 hours a week.)

**33-393. Third-Year Recital**

Public presentation of a recital of one hour in playing time on the student's major instrument. Repertoire performed must show a variety of styles and periods. (Restricted only to students in Program III of the B.Mus. degree.) (1.50 credit hour course.)

**33-414. Music Theatre Workshop-Works in Progress**

Admission by audition. The study and presentation of scenes and/or complete productions drawn from the spectrum of works written for the musical stage. May be repeated for credit.) (Prerequisite: four terms of voice study or consent of the instructor.)

**33-493. Graduation Recital**

Same as 33-393, which is prerequisite. (Restricted only to students in Program III of the B.Mus. degree.) (1.50 credit hour course.)

**33-495. Graduation Recital**

Public presentation of a recital of at least forty minutes in playing time on the student's major instrument. Repertoire performed must show a variety of styles and periods. (Restricted only to students in Programs I and II of the B.Mus. degree, with permission of a program advisor in Music.) (1.50 credit hour course.)

**MUSIC: PERFORMANCE INSTRUCTION**

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## NURSING: COURSES

*Note:* Only 63-241, 63-243, 63-245, 63-247, 63-249, 63-391, and 63-351 are open to non-Nursing students. These courses will not necessarily be offered each year.

### 63-170. Health Assessment

Students, through lectures, readings, and simulation in the laboratory, learn and practice performing a holistic health history and the techniques of inspection, percussion, palpation and auscultation for systematic health assessment of individuals across the life span. The course focuses on normal variations encountered in practice. (Prerequisites: Completion of all year 1 fall nursing and science courses.) (Corequisite: Registration in all courses required for winter semester.) (2 lecture hours and 2 tutorial hours a week.)

### 63-171. Introduction to Nursing

Professional nursing, its organization, structure, dimensions and responsibilities are explored with an emphasis on the role of the nurse and nursing competencies that facilitate maturation and adaptation of clients. Using critical thinking, students are introduced to the concepts of health, clinical decision-making, problem-solving including the nursing process, communication, caring teaching/learning, and management/ planned change. Students learn to identify the health needs of individuals. (Corequisites: 63-172, 55-202, 55-204.) (3 lecture hours a week.)

### 63-172. Clinical Nursing Experience

A clinical course designed to provide students with the opportunity to learn and practice patient care and care planning skills in simulated and clinical settings. To be taken concurrently with 63-171 in related clinical areas. (Corequisites: 63-171, 55-202, 55-204.) (Offered on a Pass/Non-Pass basis.) (8 hours a week.)

### 63-173. Introduction to Nursing II

Using critical thinking, students learn the nurse's role in health promotion and illness/injury prevention through the use of problem solving, the nursing process, communication, caring, and teaching/learning processes. Students will examine health promotion and illness/injury prevention strategies relative to healthy lifestyle. (Prerequisites: Completion of all year 1 fall nursing and science courses.) (Corequisites: Registration in all courses required for winter semester.) (3 lecture hours a week.)

### 63-174. Clinical Nursing Experience

This course provides students with the opportunity to learn and practice health assessment, intervention and evaluation skills for health promotion and disease prevention. Taken concurrently with 63-173 in the related clinical areas. (Prerequisites: Completion of all year 1 fall nursing and science courses.) (Corequisites: Registration in all courses required for winter semester.) (Offered on a Pass/Non-Pass basis.) (8 hours a week.)

### 63-230. Health Assessment

A self-directed course for registered nurses. Through specific readings, videotapes, and laboratory practice, students prepare to demonstrate competence in performing a systematic physical assessment and health history. (Must be completed prior to Year 2.) (3 lecture hours a week equivalent.)

### 63-231. Current Professional Nursing Roles

An introduction to the theories and role behaviours that will facilitate the transition to baccalaureate nursing practice. Health, communication, caring, and problem-solving will be emphasized. (To be taken concurrently with 63-232.) (3 lecture hours a week.)

### 63-232. Clinical Nursing Experience

A guided clinical experience related to the optimal health of individuals. Focus will be on the application of theoretical knowledge and development of nursing practice. (To be taken concurrently with 63-231.) (Offered on a Pass/Non-Pass basis.) (8 hours a week.)

### 63-233. Conceptual Frameworks for Nursing Practice

An examination of selected nursing conceptual models and their application in practice. (3 lecture hours a week.)

### 63-241. Health Issues and Care of Diverse Populations

The examination of the relationship between marginalization and vulnerability in the health care of diverse populations. (Open to non-Nursing students and may be taken as an open option by B.Sc.N. students.) (3 lecture hours a week.)

### 63-243. Issues in Women's Health

An exploration of issues relevant to women as consumers and providers of health care. Pertinent topics to be discussed will include reproductive health, family health, mental health, abuse, and occupational health. (Open to non-Nursing students and may be taken as an open option by B.Sc.N. students.) (3 lecture hours a week.)

### 63-245. Health Issues in Gerontology

This course is designed to focus on health issues resulting from age-related changes in human functioning. It will include a study of the aging process, epidemiology of aging as well as health and social policies relevant to the aging population. Disease processes particularly prevalent in elderly persons and related therapeutic measures will also be discussed. (Open to non-Nursing students and may be taken as an open option by B.Sc.N. students.) (3 lecture hours a week.)

**63-247. Transcultural Health**

Exploration of theory and research related to health and illness beliefs and practices across the life cycle of diverse cultural populations in Canada. Topics will include transcultural concepts in mental health, family health, aspects of pain, and care of the elderly. (Open to non-Nursing students and may be taken as an open option by B.Sc.N. students.) (3 lecture hours a week.)

**63-249. Clinical Ethics for Health Professionals**

An exploration of moral issues and questions confronting health care professionals and consumers within the context of the health care system. Professional codes and guidelines form the framework for clinical case presentations. (Open to non-Nursing students and may be taken as an open option by B.Sc.N. students.) (3 lecture hours a week.)

**63-251. Evidence Based Nursing: Knowledge to Practice**

This course provides students with the knowledge and skills required to identify and use best evidence for practice. Synthesising evidence from health care research to influence practice is the goal of the course. The course focuses on developing a question emerging from practice, and searching appropriate evidence resources. Students are introduced to a range of databases and other sources for accessing evidence. A framework for the critical appraisal of systematic reviews, quantitative and qualitative studies is introduced. Learning is facilitated through lectures, workshops and application to address the practice question/issue. Challenges and strategies related to changing practice through evidence, at the level of the individual practitioner and the health care organisation are addressed. (Prerequisites: 02-250 or 63-377.)

**63-271. Family Health**

The first of a three sequence course in Family Nursing. The course provides an introduction to concepts, theories and models of family as the unit of care within the context of community. Family assessment, roles, coping styles and decision-making patterns are examined. Communication, caring and teaching/learning are emphasized to enable the student to assess families and facilitate health promotion and illness/injury prevention of family members. (Prerequisite: Completion of all year 1 science and nursing courses.) (Corequisites: Registration in all courses required in fall semester of year 2 of the program.) (3 lecture hours a week.)

**63-272. Clinical Nursing Experience**

This course is the fourth of a sequence of 12 clinical practice courses. It is designed to provide the student with the opportunity to learn and practice professional and technical skills including assessment, goal-oriented planning, interventions and evaluation of clinical outcomes for young adults, adults, and older adults experiencing acute and long term health needs within the context of family and community. (Prerequisite: Completion of all year 1 science and nursing courses.) (Corequisites: 63-271. Registration in all courses required in fall semester of year 2 of the program.) (Offered on a Pass/Non Pass basis.) (10 hrs/week.)

**63-273. Nursing Care of Clients with Episodic and Long-Term Health Needs**

This course is the first of a four-course sequence focusing on health, maturation and adaptation of individuals within the context of family and community. This course focuses on young adults, adults, and older adults with alterations in their health status. The course examines the interaction of growth and development, environment and nursing on the maturation and adaptation of individuals with episodic and long-term health needs with predictable outcomes. Using critical thinking, problem solving, decision-making, the nursing process, teaching/learning, caring, assessment, and intervention skills, students study the care of clients with select physiological, mental health, and psychosocial health needs. (Prerequisite: Completion of all year 1 science and nursing courses.) (Corequisites: Registration in all courses required in fall semester of year 2 of the program.) (3 lecture hours a week.)

**63-274. Clinical Nursing Experience**

This course is the fifth course in a sequence of 12 clinical practice courses. Emphasis is on the continued opportunity to learn and practice professional and technical skills within maternal-child and pediatric settings. (Offered on a Pass/Non Pass Basis.) (Prerequisites: Completion of all year 2 fall semester courses.) (Corequisites: Registration in all nursing and science courses in winter semester.) (10 lecture hrs/week.)

**63-275. Family Health: Child Bearing and Child Rearing Families**

This is the second course in a 3-course sequence focusing on the family as the unit of care within the context of community. The course explores child bearing and child rearing families and their development including reproduction, pregnancy, labor/delivery, child rearing as well as maturational and situational crises. Cultural, crisis, and risk assessment and intervention strategies to promote family health are stressed. (Prerequisites: Completion of all year 2 fall semester courses.) (Corequisites: Registration in all nursing and science courses in winter semester.) (3 lecture hours a week.)

**63-277. Nursing Care of Children and Youth with Episodic and Long-Term Health Needs**

This is the second course in a four-course sequence focusing on health, maturation and adaptation. The course examines the interaction of growth and development, environment and nursing on the maturation and adaptation of children and youth with episodic and long-term health needs with predictable outcomes. Critical thinking, the nursing process, communication, caring and teaching/learning along with assessment, intervention and evaluation skills are emphasized. (Prerequisites: Completion of all year 2 fall semester courses.) (Corequisites: Registration in all nursing and science courses in winter semester.) (3 lecture hours a week.)

**63-278. Clinical Nursing Experience**

This course is the sixth course in a sequence of 12 clinical practice courses. It is a period of continuous practice taken in intersession/ summer session or as determined by the School of Nursing. The focus is on assessment, goal-oriented interventions and client outcomes within the context of family and community in medical, surgical, maternal child and pediatric settings. (Offered on a Pass/Non Pass basis.) (Prerequisites: Completion of all year 2 nursing and science courses.) (40 hrs/wk for 4 weeks.)

**63-321. Conceptual Models for Nursing Practice**

An examination of nursing conceptual models as the basis for practice. Select theories, including theories of caring, their philosophical foundations and nursing processes will be examined. (Prerequisite: Completion of all year 3 fall semester courses.) (Corequisites: Registration in all year 3 winter semester nursing courses.) (3 lecture hours a week.)

**63-331. Family Nursing**

An introduction to family theories, models, and assessment tools that will assist the student to provide family-centered nursing care. (Prerequisites: 63-231, 63-232 and 63-233.) (3 lecture hours a week.)

**63-333. Nurse as counselor and Educator**

Concepts, theories, and research in counselling, teaching, and learning as they relate to the nursing roles of counselor and educator. (Prerequisites: 63-231 and 63-232.) (3 lecture hours a week.)

**63-334. Clinical Nursing Experience**

Guided clinical experience in which students apply the theoretical bases of family nursing, education, and counselling in the practice of family-centered nursing. (Prerequisites 63-231, 63-232, 63-233; Prerequisites or corequisites: 63-331 and 63-333.) (Offered on a Pass/Non-Pass basis.) (8 hours a week.)

**63-351. The Human Meaning of Death**

An examination of the human experience of death and dying, the meaning of human life, ethical and cultural aspects, euthanasia, and advanced directives. Lectures, readings, films, and discussions will explore a variety of significant thinkers and concepts concerning death. Through various exercises and shared experiences, students will be encouraged to examine their own feelings and attitudes toward death. (Open to non-Nursing students and may be taken as an Arts option by B.Sc.N. students.) (3 lecture hours a week.)

**63-371. Family Nursing: Families Experiencing Crises**

This is the third course in a three-course sequence in Family Nursing that examines the special needs of families of all ages experiencing crises including mental health crises. Cultural, crisis, and risk assessment as well as intervention strategies for families requiring acute, restorative and palliative care are stressed. (Prerequisite: 63-278.) (Corequisites: Registration in all year 3 fall semester courses.) (3 lecture hours a week.)

**63-372. Clinical Nursing Experience**

This course is the seventh course in a sequence of 12 clinical practice courses. Emphasis is on the practice of professional and technical skills in the care of children, teens, and young adults experiencing complex or multi-system health disruption within the context of family and community. (Prerequisite: 63-278.) (Corequisites: Registration in all year 3 fall semester courses.) (Offered on a Pass/Non Pass basis.) (10 hours a week.)

**63-373. Nursing Care of Clients with Complex Health Problems I**

This is the third in a four-course sequence focusing on health, maturation and adaptation. The focus is on the continued exploration of health, maturation and adaptation in children, teens and young adults experiencing complex and/or a multi-system health disruption within the context of family and community. Environment, culture, critical thinking, communication, caring and teaching/learning along with assessment and intervention skills are emphasized. (Prerequisite: 63-278.) (Corequisites: Registration in all year 3 fall semester courses.) (3 lecture hours a week.)

**63-374. Clinical Nursing Experience**

This course is the eighth course in a sequence of 12 clinical practice courses. Emphasis is on the practice of professional and technical skills in the care of adults and older adults experiencing complex or multi-system health disruption within the context of family and community. (Prerequisites: Completion of all year 3 fall semester courses.) (Corequisites: Registration in all year 3 winter semester nursing courses.) (Offered on a Pass/Non Pass basis.) (10 hours a week.)

**63-375. Nursing Care of Clients with Complex Health Problems II**

This is the fourth in a four-course sequence focusing on health, maturation and adaptation. The focus is on the continued exploration of health, maturation and adaptation of adults and older adults experiencing complex and/or multi-system health disruptions within the context of family and community. The nursing management of clients through the use of decision making, communication, caring, teaching/learning and assessment and intervention skills are emphasized. (Prerequisites: Completion of all year 3 fall semester courses.) (Corequisites: Registration in all year 3 winter semester nursing courses.) (3 lecture hours a week.)

**63-377. Nursing Research**

An introduction to the research process in nursing. The focus of the course is on enabling the student to appraise and utilize research findings as the basis for evidenced-based nursing practice. (Prerequisites: 63-278, and 02-250 or 65-205.) (Corequisites: Registration in all year 3 fall semester nursing courses.) (3 lecture hours a week.)

**63-378. Clinical Nursing Experience**

This course is period of continuous clinical practice offered at the beginning and end of year three or as determined by the faculty. The focus is on assessment, goal oriented interventions and outcomes associated with clients with complex or multi system health disruption within the context of family and community, in medical, surgical, maternal/child, and paediatric settings. (Prerequisites: Completion of all year two courses). Offered on a Pass/Non Pass basis.

**63-379. Teaching, Learning and Informational Technology**

This course focuses on the educative role of the professional nurse. Emphasis is on theories and current research in learning, teaching and informatics. The role of information technology as a resource and a tool for patient education patient care, staff development, social marketing, and lifelong learning will be explored. (Prerequisites: Completion of all year 3 fall

semester courses.) (Corequisites: Registration in all year 3 winter semester nursing courses.) (3 lecture hours a week.)

**63-391. Basic Human Nutrition**

A study of the basic principles of nutrition and their relationship to health promotion, disease prevention, health maintenance, and restorative care. The focus will be on the nutritional requirements of healthy individuals and individuals with health disruptions across the life span. (Prerequisites: 59-191, and one of 55-141, 55-204, 55-205.) (Open to non-Nursing Students.) (3 lecture hours a week.)

**63-431. Community Nursing**

Theory related to nursing care of communities, with emphasis on health promotion. An examination of the factors influencing the health of communities will be included. (Prerequisites: 63-231, 63-232, and 63-233, 63-331, 63-333, 63-334.) (3 lecture hours a week.)

**63-432. Clinical Nursing Experience**

Guided clinical experience in which students apply theories of leadership, management, and community organization and assessment in the provision of care to client groups. (Offered on a Pass/Non-Pass basis.) (Prerequisites 63-231, 63-232, 63-233, and 63-333 Prerequisites or corequisites: 63-431 and 63-433.) (8 hours a week.)

**63-433. Leadership and Management in Nursing**

Leadership, management, planned change, and organizational theories are examined as they relate to the role of nurse as leader/manager. (Prerequisites: 63-231, 63-232 and 63-233.) (3 lecture hours a week.)

**63-443. Nursing Research**

An introduction to the research process in nursing. The focus of the course is on enabling the student to critique and utilize research findings in practice. (Prerequisites: 63-231, 63-232 and 63-233 and one of 02-250 or 65-205.) (3 lecture hours a week.)

**63-445. Professional Accountability in Nursing Practice**

This course provides the student with an opportunity to explore the ethical, legal, political and professional issues as they relate to professional accountability. (Prerequisites 63-231, 63-232, and 63-333.) (3 hours a week.)

**63-447. Directed Study**

This course provides the student with an opportunity for an indepth study of a health issue in management, education, or practice. Theory and practice are included. (Prerequisites: 63-231, 63-232, and 63-233, 63-334, 63-431, 63-433.) (3 lecture hours a week.)

**63-471. Community as Client**

An introduction to community theories, models and research, that will assist the student to promote the health of groups, aggregates and communities. Students will explore principles and strategies of assisting communities to build/shape their communities or to change factors, that may will increase healthy lifestyles, access to preventative services, decrease discrepancies in health status and outcomes for different populations including the marginalized, school children, and populations at risk for illness and premature death. The nursing tools of caring, communication, problem solving and teaching/learning are emphasized. (Prerequisite: 63-378.) (Corequisite: 63-472, 63-473, 63-475.) (3 lecture hours a week.)

**63-472. Clinical Nursing Experience**

This course is the tenth course in a sequence of 12 clinical practice courses. A precepted clinical experience, which enables the student to synthesize theory, research, and professional and technical skills, in clinical nursing practice. The expected student outcome is a beginning skill level in the competencies identified by the College of Nurses of Ontario. (Prerequisite: 63-378.) (Corequisites: 63-471, 63-473, 63-475.) (Offered on a Pass/Non Pass basis.) (16 hrs/week for 12 weeks.)

**63-473. Concepts of Leadership in Nursing Practice**

This course focuses on the leadership and management roles of the nurse within the context of nurses' scope of practice as defined by current legislation and professional standards and expectations. The course is designed to assist nurses to become effective members of health care organizations both as employees, leaders and future managers. Content will address leadership and management theories, organizational structure, planned change, conflict resolution, organizational communication, problem solving, decision making, strategies for effective delegation, motivation, nursing care delivery approaches, and total quality management. (Prerequisites: 63-471; 63-472 or 63-476; 63-475.) (Corequisites: 63-477; 63-472 or 63-476.) (3 lecture hours a week.)

**63-475. Professional Accountability and Health Care Issues**

This course focuses on current health care issues within the contexts of the ethical, professional, and legal accountability of the professional nurse. Emphasis will be on current health issues within the context of the CNO Standards of Practice, Explanation of Professional Misconduct, tort law, criminal law and current health related statutes. (Prerequisites: 63-378.) (Corequisites: 63-471, 63-472, 63-473.) (3 hours a week.)

**63-476. Clinical Nursing Experience**

This course is the twelfth course in a sequence of 12 clinical practice courses. A precepted clinical experience within the context of community as client which enables the student to synthesize theory, research and professional and technical skills in clinical nursing practice. The expected student outcome is a beginning skill level identified by the College of Nurses of Ontario. (Prerequisites: 63-378.) (Offered on a Pass/Non Pass basis.) (16 hrs/week for 12 weeks.)

**63-477. Directed Study**

An in-depth study of an area of interest within the students' clinical nursing experience. Students select a major health

problem/issue for analysis and synthesis. (Prerequisites: 63-471, 63-473, 63-475.) (Corequisites: 63-472 or 63-476.) (3 lecture hours a week.)

# Winter 2008 Undergraduate Calendar

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Not all courses are offered each term or each academic year.</p> <p>Please note the middle digit of course numbers denotes specific topics or areas of study.</p> <p><b>34-110. Introduction to Western Philosophy</b> An introduction to philosophy through the study of major figures and movements in the Western philosophical tradition. The figures and themes selected for any given year will be chosen by the instructor.</p> <p><b>34-112. Philosophy and Human Nature</b> What is human nature? How do we think of ourselves as human beings? The course will examine several of the principal theories of human nature that have been put forward in Western philosophy.</p> <p><b>34-129. Contemporary Moral Issues</b> A critical examination of philosophical arguments about controversial moral issues. Readings will be chosen by the instructor on issues connected with one or several of such areas as: biomedical ethics, euthanasia, suicide, environmental ethics, the treatment of animals, war and violence, pornography, censorship.</p> <p><b>34-130. Philosophy and Popular Culture</b> A philosophical inquiry into one or more of the more important contemporary cultural forms and phenomena. Topics may vary and may include popular music, television, virtual reality, sexual roles and stereotypes, or other topics.</p> <p><b>34-160. Reasoning Skills</b> An explanation of, and practice in, the basic knowledge, skills and attitudes which are essential components of reasoning well. (Antirequisite: 34-161 and 34-162.)</p> <p><b>34-162. Logic and Argumentation</b> Basic deductive logic and argumentation theories and their application to the interpretation, assessment and construction of arguments used in the humanities, social sciences, and sciences as well as in discourse in the public realm. Topics include: deductive, inductive, presumptive reasoning or arguments, elementary sampling, differences between the kinds of support in different fields, elementary rhetoric and dialectic, and common fallacies. (Prerequisite: Open only to students in the BAS program.) (Antirequisite: 34-160, 34-161.)</p> <p><b>34-221. Introduction to Ethics</b> A survey of the main contending theoretical positions on such basic questions of ethics as: Are all moral values and norms subjective or objective, relative or absolute? What makes right actions right? What is the good life for human beings?</p> <p><b>34-222. Social and Political Philosophy</b> An examination of some of the main contending theories about the nature of society and the state, or of some of the central controversies in social and political theory. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing; or consent of the instructor.)</p> <p><b>34-224. Business Ethics</b> An introduction to some central ethical notions (e.g., justice, the common good, moral vs. legal obligation); application of these issues and concepts to cases drawn from the experiences of business men and women (concerned with such issues as corporate responsibility, conflict of interest, honesty in advertising, preferential hiring, corporate responsibility for environmental externalities).</p> <p><b>34-226. Law, Punishment and Morality</b> An introduction to the philosophical issues related to understanding the nature of law and legal obligation, the relation between law and morality, and the purpose of punishment. The theoretical points and distinctions will be illustrated by their applications to particular current issues. (Prerequisite: semester 3 or above standing, or consent of the instructor.)</p> <p><b>34-227. Environmental Ethics</b> What ethical obligations do we have to the non-human environment? The course examines various answers to that question. Topics may include: animal rights, the moral status of non-human life, the intrinsic value of ecosystems, the importance of wilderness, deep ecology, eco-feminism, economic development, environmentalism, and politics.</p> <p><b>34-228. Technology, Human Values and the Environment</b> An exploration of the philosophically important ethical concepts of human nature, freedom, progress, the good life, moral responsibility, and the environment as these relate to advances in technology. Topics may include: pollution, mass production, the commodification of nature, new technologies (e.g., biotechnology, nanotechnology).</p> <p><b>34-236. Feminism and Philosophy</b> An examination of key themes in philosophical feminism and feminist theory, such as sexism and oppression, theories of women, sex, gender, language, and feminist identity, methodology, and politics. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.)</p>
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**34-237. Labour and Social Justice**

An examination of the philosophical problems raised by the nature and function of labour in a changing society. Topics to be addressed may include: the relationship between labour and the struggle for democracy, labour as a social movement, the relationship between labour and conceptions of the good life, the relationship between economic and human value, technology and the nature of labour, and the sexual division of labour. (Also offered as 54-237.) (Prerequisite: 3rd semester standing.)

**34-240. Philosophy of Religion**

An examination of the philosophical problems involved with religious belief and language. Can the existence of God be proven? Can the non-existence of God be proven? Can claims to religious knowledge be legitimized? Is there a unique logic of religious language that is cognitively meaningful? Is there any basis for claims about life after death? What is the nature of faith? These are the sorts of questions which are dealt with in this course. (Prerequisite: Semester 3 or above standing.)

**34-250. Metaphysics**

An examination of fundamental questions about the nature of reality. What kinds of things are real; what distinguishes the real from the ideal, or the real from the illusory? Are there abstract entities (e.g., numbers)? The nature of necessity and possibility, essence and existence. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.)

**34-252. Existentialism**

A study of the views of some of the major existentialists. Figures studied may include Kierkegaard, Nietzsche, Sartre, Merleau-Ponty, Camus, and Jaspers. (Prerequisite: Semester 3 or above standing.)

**34-254. Theory of Knowledge**

An examination of the nature of knowledge, with topics such as: definitions of knowledge, accounts of its structure, the extent and limits of knowledge, the relationship between experience and knowledge, the bases of rational or justified belief formation. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.)

**34-255. Knowledge and Community**

The course explores the relationship between what individual people know and their participation in communities. Topics may include: the ways communities rather than individuals can hold knowledge; how cognitive authority depends on a person's membership in, and social position within, a community; the role of testimony in knowledge; how the legal system creates knowledge; the roles of gender, race, class and culture in knowledge; and the ethical implications of experience and understanding. (Prerequisite: semester 3 or above standing.)

**34-260. Informal Logic: Fallacy**

The objective is to develop the ability to discriminate between good and bad arguments found in everyday settings, using the concept of fallacy. A variety of kinds of fallacy are explained, and the skill of identifying them is taught. The basic tools for analyzing arguments are presented and put to use. Material for analysis is drawn from newspapers, current periodicals, and other sources of actual arguments. (Prerequisite: 34-160 or 34-161 or semester 3 or above standing; or consent of the instructor.)

**34-261. Informal Logic: Argumentation**

The objective is to develop the ability to analyze and evaluate extended arguments found in the public media, books and articles, and to construct a well-argued case. (Prerequisite: 34-260 or 34-160 and semester 3 or above standing; or consent of the instructor.)

**34-262. Symbolic Logic**

The course covers propositional logic as well as an introduction to the basic concepts of predicate logic. Topics include the construction of symbolic representation of natural language sentences, semantic methods for evaluating symbol formulas, and methods of constructing deductions or proofs. (Prerequisite: Semester 3 or above standing, or permission of the instructor. Antirequisite for non-Philosophy majors: 60-231, 62-190.)

**34-266. Reasoning about Weird Things**

How to evaluate extraordinary claims, such as claims about psychic phenomena (e.g. ESP), subliminal messages, crop circles, and water divining. The course may include topics such as: the limits of personal experience as a source of evidence, expert opinion, assessment of studies, scientific method. (Prerequisite: Semester 3 or above standing; or consent of instructor.) (Students may not receive credit for both 34-161 and 34-266.)

**34-270. Plato**

Early Greek philosophy with emphasis on Socrates and Plato, with readings from a cross-section of early Greek philosophers and from Plato's dialogues. (Prerequisites: Semester 3 or above standing and one prior Philosophy course.)

**34-271. Aristotle**

Later Greek philosophy to the close of classical antiquity with emphasis on Aristotle, with readings from Aristotle, the Epicureans, the Stoics and Plotinus. (Prerequisites: Semester 3 or above standing and one prior Philosophy course.)

**34-274. Early Modern Philosophy: The Rationalists**

The major rationalist themes of European thought at the time of the scientific revolution, such as: universal doubt, the nature of knowledge, the primacy of subjectivity, mechanism, the mind-body relationship, kinds of substances, freedom and determinism, God and the world. Philosophers studied may include Descartes, Spinoza, Leibniz, among others. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.)



**34-275. Early Modern Philosophy: The Empiricists**

The major empiricist themes of European thought in the 17th and 18th centuries. Topics may include: the attack on innate ideas, the nature of knowledge, faith vs. reason, the nature of a person, materialism, immaterialism and scepticism, human nature vs. reason, causation and human action, the evidence for a deity. Philosophers studied may include Locke, Berkeley, and Hume, among others. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.)

**34-280-289. Special Topics**

Special Topics courses will be offered occasionally, as resources allow, to meet a demonstrated academic need, where that need cannot be satisfied by any of the regular course offerings. Interested students should inquire in the Philosophy office. (Prerequisites: Semester 3 or above standing and permission of an advisor in Philosophy.)

**34-323. Globalization and Social Justice**

Theories of the effect of globalization on the production and distribution of harms and goods. Topics may include: effect on the underdeveloped world of high standards of living in the developed world; effect on the survival of indigenous cultures of tensions between cultural and economic development; women and development; measuring social justice in a world with cultural differences; relationship between democracy and the global economy; democracy and social justice. (Prerequisite: Semester 3 or above standing, or permission of the instructor.)

**34-329. Animals and Ethics**

The course examines philosophical views about our relationship to animals and the relation of these views to the evaluation of moral principles and ethical theories, including notions of justice and rights. It may cover such topics as: attitudes towards animals, animal awareness and autonomy, whether moral consideration should be extended to animals, whether animals have rights. (Prerequisites: Semester 3 standing and at least one prior Philosophy course, or permission of the instructor.)

**34-330. Theories of Nature**

Our relation to the environment is shaped in part by our conception of nature. The course explores different and sometimes competing conceptions of nature, considering such questions as: Is nature like a machine? Is it like an organism? Does it evolve? Is nature creative? Are all things in nature interconnected? (Prerequisites: Semester 3 standing and at least one Philosophy course, or permission of the instructor.)

**34-342. Philosophy of Education**

A critical examination of theories about the nature, goals and values of education. The approach of the course may be historical, contemporary or a combination. (Prerequisites: Semester 3 or above standing and at least one prior Philosophy course, or consent of the instructor.)

**34-343. Aesthetics**

Aesthetics is concerned with problems which arise in the appreciation of objects which are deemed to have aesthetic value. Problems which may be raised in this course include the nature of aesthetic experience and aesthetic objects such as works of art and nature, as well as problems related to aesthetic value and judgment. (Prerequisite: Semester 3 or above standing.)

**34-353. Mind, Action, and Personal Identity**

An examination of: contemporary views of the nature of mind and its relationship to body; whether human action is free, determined, or both; the relationship between a theory of personal identity and the answers to the preceding questions. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing; or consent of the instructor.)

**34-355. Post-structuralist Theory**

Philosophers studied in this course may include Derrida, Foucault, Lyotard, Deleuze, and Guattari. (Prerequisite: 34-110 or 34-112, or at least one 200-level Philosophy course, or consent of the instructor.)

**34-356. Mind Design and Android Epistemology**

This course explores the implications of artificial intelligence and cognitive modelling research for issues in the philosophy of mind and epistemology, including: the nature of mental states; thinking as largely linguistic, and alternatives; and effects of the way we think of mental states on the way we think about reasoning and knowing. (No specific background in science required, but an introductory-level course in psychology or computer science recommended.)

**34-357. Philosophy of Science**

What is a scientific explanation? A theory? How does observation relate to theory? Do theories describe reality, or are they just conventional tools? The course examines answers to these and similar questions, and the general conceptions of science behind the answers. (Prerequisite: Semester 3 or above standing or consent of the instructor.)

**34-359. Women, Knowledge and Reality**

An exploration of feminist theories about knowledge and reality that inform and are informed by scholarship in Women's Studies. Students examine how gender might affect identity, reasoning, objectivity, and evidence, and in turn, how such variations might affect feminist political practices. (Prerequisites: Two courses at the 200-level or above from Women's Studies and/or consent of the instructor.) (Also offered as Women's Studies 53-300.)

**34-360. Argumentation Theory**

Topics may include: the nature and uses of argument; the evaluation of argument; arguments and argumentation; the relations between argument and rhetoric, logic, and pragmatics; linguistic theories of argument; ethics and epistemology related to argument; the role of argument in philosophy. (Prerequisite: 34-260 or 34-261, or consent of the instructor.)

**34-376. Kant**

A study of the critical philosophical writings of Immanuel Kant. Topics may include Kant's theories about: the limits of human

knowledge, how knowledge in mathematics and the natural sciences is possible, whether it is possible to have moral knowledge, whether it is possible to have religious knowledge. (Prerequisite: 34-274 or 34-275, or consent of the instructor.)

**34-377. Hegel and German Idealism**

A study of early 19th century philosophy centered on the idealism of G.W.F. Hegel, focusing on such problems as the nature of the dialectic, the notion of absolute spirit, and the Hegelian conception of philosophy. (Prerequisite: 34-271 or 34-274, or consent of the instructor.)

**34-378. Nineteenth Century Philosophy**

Various nineteenth century thinkers may be studied in this course including Kierkegaard and Nietzsche, but also Dilthey, Schopenhauer, Comte, Mill, and others. (Prerequisite: 34-110 or 34-112, or at least one 200-level Philosophy course, or consent of the instructor.)

**34-400 to 34-410. Senior Seminars**

Senior seminars are the undergraduate sections of M.A. courses. (Normally open only to Philosophy majors in the final year of their program. Consent of the instructor is required. Consult a program advisor during the term preceding planned registration.)

**34-470. Recent German Philosophy**

Significant developments in German philosophy in the twentieth century will be examined. Portions of the course may be devoted to Husserl (the founder of the phenomenological school), Heidegger (a seminal figure in existentialism), Gadamer (a key figure in the development of hermeneutics), Critical Theory (a Freudian and Marxist approach to social and economic issues), and second-generation critical theorists such as Habermas. (Prerequisite: 34-100 or 34-112, or one 200-level Philosophy course, or permission of instructor.)

**34-471. Recent French Philosophy**

A study of significant developments in recent French thought as found in Bergson, Sartre, Merleau-Ponty, Bataille, and Levi-Strauss, for example. (Prerequisite: 34-110 or 34-112, or at least one 200-level Philosophy course, or consent of the instructor.)

**34-472. Recent British Philosophy**

A study of significant developments in recent British thought in this century, as embodied in key works by figures such as Russell, Moore, Wittgenstein, and some contemporary analytic philosophers. (Prerequisite: 34-110, Or 34-112, or at least one 200-level Philosophy course, or permission of instructor.)

**34-473. Recent American Philosophy**

A study of major thinkers who shaped recent American thought, with emphasis on the development of pragmatism at the hands of Peirce, James, and Dewey, and the works of recent analytic philosophers such as Quine and Carnap. (Prerequisite: 34-110 or 34-112, or at least one 200-level Philosophy course, or consent of the instructor.)

**34-491. Honours Seminar**

The aim of the seminar is to give students a solid historical background in a given area of philosophy (e.g. ethics, epistemology, metaphysics). A philosophical theme is traced through a number of key figures in the history of philosophy. (Open only to four-year Honours in Philosophy students in their final year.)

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## PHYSICS: COURSES

*Not all courses listed will necessarily be offered in each year.*

### 64-100. Acoustics of Music

An introduction to acoustics with applications to music. Wave motion, pressure amplitudes, propagation of sound, impedance, reflection, refraction, diffraction, interference; simple harmonic motion, resonance, natural modes of vibration, vibration recipes, Fourier spectra; vibrating strings, air columns, and membranes; voice; hearing, masking, pitch, loudness, sound level, and tone quality; room acoustics, reverberation, echo; tuning and temperament. (3 lecture-demonstration hours/week.)

### 64-114. Physical Concepts and Numeracy I

The development of critical quantitative thinking in applications of physics to everyday phenomena. The course is designed for general, non-science students but should also serve students majoring in science but weak in problem solving skills. By helping students to sharpen their analytical skills in applications of physical concepts, the course is meant to increase numeracy without being heavily mathematical. It concentrates on mechanics, properties of matter, and heat with the aid of tools such as vectors, functional relationships, their graphical representations, and elements of statistics and error analysis. (3 lecture hours a week.)

### 64-115. Physical Concepts and Numeracy II

A continuation of 64-114. Elements of sound, light, electricity and magnetism, and concepts of waves, cycles, resonance, input/output, and feedback, investigated with analytical tools including order-of-magnitude estimates, elementary dimensional analysis, relative sizes, and scaling. (Prerequisite: 64-114 or consent of instructor.) (3 lecture hours a week.)

### 64-130. Introductory Physics for Life Sciences I

This is an algebra-based course intended for students interested in the biological or health sciences, or related disciplines. The topics covered include the basic mechanical concepts of force, work and energy, properties of matter, and heat, with examples and applications drawn from the modeling of biological systems. (Prerequisites: one 4"U" or OAC mathematics course or equivalent.) (3 lecture, 3 laboratory hours per week.) (Pre-requisites: One 4 "U" or OAC mathematics course or equivalent. Anti-requisite: 64-140.)

### 64-131. Introductory Physics for Life Sciences II

This course is a continuation of 64-130 intended for students interested in the biological or health sciences, or related disciplines. The topics covered include wave motion, sound, electricity and magnetism, light, and an introduction to topics in modern physics involving the life sciences such as the quantum nature of radiation and its interaction with biomolecules, high energy radiation and radioactivity, and the statistical treatment of data. (Prerequisites: 64-130.) (3 lecture, 3 laboratory hours per week.)

### 64-140. Introductory Physics I

Mechanics; properties of matter and heat. A calculus-based course. (Prerequisites: Grade 12"U" Advanced Functions and Introductory Calculus or equivalent.) (Recommended corequisite: 62-140. Students weak in physics and problem solving may wish to take 64-114 and 64-115 first.) (3 lecture, 3 laboratory hours a week.)

### 64-141. Introductory Physics II

Wave motion, sound, electricity and magnetism, light, and modern physics. (Prerequisite: 64-140 or 85-111.) (3 lecture, 3 laboratory hours a week.)

### 64-151. Introduction to Theoretical Methods

An introduction to practical problem solving and data analysis techniques in physics, emphasizing computer-aided graphical and approximate computational methods; order-of-magnitude estimations, the elements of dimensional analysis, approximate evaluation of functions, parameter optimization, complex numbers, an introduction to fractals, vector algebra, dyads. (Prerequisites: 64-140 and 62-140.) (2 lecture, 2 laboratory hours a week.)

### 64-190. Introduction to Astronomy I

The solar system with emphasis on the results of recent space exploration. This is a descriptive course suitable for the non-scientist. (May be taken by B.Sc. students for credit, but does not count as a Physics course or other science option towards the fulfillment of the requirements for the B.Sc. degree.) (2 lecture hours a week.)

### 64-191. Introduction to Astronomy II

The stars, galaxies, including pulsars, black holes, and quasars. Current theories of the structure of the universe will be discussed. This is a descriptive course suitable for the non-scientist. (May be taken by B.Sc. students for credit, but does not count as a Physics course or other science option towards the fulfillment of the requirements for the B.Sc. degree.) (2 lecture hours a week.)

### 64-202. Physics and Society-The Past

The interaction between physics and society from prehistoric times up to the industrial revolution is discussed. The ways in which man's growing understanding of the physical universe has influenced practical skills, and political, economic, and philosophical thinking are extensively explored and developed. (Not open to first-year students.) (2 lecture hours a week.)

### 64-203. Physics and Society-The Present

Modern society is dominated by the explosive development of physics and technology from the industrial revolution to the present. This development and its impact on society are explored. A number of topics of current interest such as nuclear energy, world energy supplies, pollution, and possible solutions to the energy crisis are discussed in detail. (Not open to first-year students.) (2 lecture hours a week.)

**64-220. EM Fields and Photons**

Electrostatic fields and potentials. Charges and capacitance. Currents and conduction in solids. Magnetic fields; induction; introduction to Maxwell equations, electromagnetic waves, and photons; the photoelectric effect. (Prerequisite: 64-141, or 85-124, or equivalent.) (3 lecture, 3 laboratory hours a week.)

**64-222. Optics**

Geometrical optics: review of laws of reflection and refraction; lenses and mirrors (matrix optics); stops, optical systems, aberrations. Introduction to wave optics; interferometry, diffraction, polarization, Fresnel equations, elements of dispersion theory. (Prerequisites: 64-141 and 62-141.) (3 lecture, 3 laboratory hours a week.)

**64-250. Mechanics**

Newton's Laws, Galilean transformations, rotating reference frames, conservation laws, angular momentum and torque, driven oscillators with damping, dynamics of rigid bodies, inverse square forces, Lorentz transformation, relativistic kinematics and dynamics. (Prerequisite: 64-140 or equivalent and 64-151 or consent of instructor; corequisite: 62-215 or equivalent.) (3 lecture hours, 1 tutorial hour a week.)

**64-298. Co-op Work Term I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

**64-310. Quantum Physics and Chemistry**

Classical and quantum physics, relativistic physics, black-body radiation, photoelectric effect, Compton scattering, atomic structure, Schrodinger equation, particle in a box, harmonic oscillator, conduction in solids; semiconductor and superconductor devices. (Prerequisites: 62-215 and 62-216 or equivalents.) (3 lecture, 3 laboratory hours a week.)

**64-311. Atomic and Molecular Spectra**

Introduction to atomic and molecular spectroscopy, hydrogen and helium atoms, perturbation theory, isotopes; introduction to nuclear physics. (Prerequisites: 64-310 or 64-314, 62-215, and 62-216, or equivalents.) (3 lecture, 3 laboratory hours a week.)

**64-314. Quantum Physics and Chemistry**

(Same as 64-310 without the laboratory.) Classical and quantum physics, black-body radiation, photoelectric effect, Compton scattering, atomic structure, Schrodinger equation, particle in a box, harmonic oscillator, conduction in solids; semiconductor and superconductor devices. (Prerequisites: 62-215 and 62-216 or equivalents.) (3 lecture hours a week.)

**64-315. Atomic and Molecular Spectra**

(Same as 64-311 without the laboratory.) Introduction to atomic and molecular spectroscopy, hydrogen and helium atoms, perturbation theory, isotopes; introduction to nuclear physics (Prerequisites: 64-310 or 64-314, 62-215, and 62-216 or equivalents.) (3 lecture hours a week.)

**64-320. Electromagnetic Theory**

Electrostatics, potential theory, boundary-value problems, multipole expansion, electrostatics of ponderable media, magnetostatics, electromagnetic induction, Maxwell's equations. (Prerequisites: 62-215, 64-220.) (Corequisite: 62-216.) (3 lecture hours a week.)

**64-323. Electromagnetic Waves**

Maxwell's equations in macroscopic media, gauge invariance; electromagnetic waves in a relativistic formulation; propagation, refraction, and reflection at dielectric and metal interfaces; polarization, Stokes parameters; Fourier analysis; transmission lines, wave guides, relativistic dynamics of charges in external fields. (Prerequisites: 64-222, 64-320, and 62-318) (Corequisite 62-360) (3 lecture, 3 laboratory/tutorial hours a week.)

**64-350. Classical Mechanics I**

Dynamics of particles and systems of particles; Newtonian mechanics in the Lagrangean formulation; variational principles, conservation laws; symmetry and Noether's theorem; two-body central forces, scattering; small oscillations. (Prerequisites: 64-250, 62-215, and 62-216 or equivalents.) (3 lecture hours, 1 tutorial hour a week.)

**64-351. Classical Mechanics II**

Rotational motion, non-inertial frames; rigid-body rotations, inertia tensor, Euler's equations, chaotic systems. Hamiltonian formulation; canonical transformations; Poisson brackets, symmetry groups; Hamilton- Jacobi theory; Schrodinger equation. (Prerequisite: 64-350.) (3 lecture hours, 1 tutorial hour a week.)

**64-370. Introduction to Medical Physics**

Physical principles and experimental techniques applied to medicine and biology. Applications of x-rays and gamma rays in medical diagnosis and therapy. Physical principles of lasers, ultrasound, and magnetic fields in mapping structures. Physical techniques for the diagnosis and therapy of the human body. This course is intended to be of interest to students in Biology and Chemistry/Biochemistry, as well as Physics. (Prerequisite: 64-140 and 64-141, or the consent of the instructor.)

#### **64-398. Co-op Work Term II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

#### **64-412. Research**

Design, researching, execution and managing, analysis, and reporting (Written and oral) of a supervised physics project in a recognized research laboratory, on- or off-campus. This is a problem-based course with emphasis on team work. Normally, three reports are to be submitted: a report on background, one on the research plan, and a final report containing the main results, conclusions, and suggestions for further work. With departmental approval, the research may be applied toward partial fulfillment of the M.Sc. degree. (35-40 laboratory hours a week.) (9.0 credit hours.)

#### **64-420. Classical Electrodynamics**

Conservation laws, Bremsstrahlung scattering of radiation, multipole radiations fields, Liénard-Wiechert potentials, Green functions, radiation reaction, Lorentz-Dirac equation, radiation from time-dependent currents. (Prerequisites: 64-320 and 64-323.) (3 lecture hours a week.)

#### **64-431. Introduction to Statistical Mechanics**

Thermal equilibrium, diffusive equilibrium; Boltzmann and Gibbs distributions, canonical and grand canonical partition functions; thermodynamics from statistical mechanics, entropy, work, heat; Helmholtz free energy, Gibbs free energy, enthalpy, Gibbs-Duhem relation, equations of state, Maxwell relations, response functions; Planck distribution and thermal radiation, Fermi-Dirac distribution and the Fermi gas, Bose-Einstein distribution and the Bose gas, ideal gas; chemical reactions; binary mixtures; phase transitions; elementary kinetic theory. (Prerequisites: 59-240, 64-310 or 64-314, 64-311 or 64-315, and 59-340 (for Chemistry students only).)

#### **64-443. Quantum Optics and Spectroscopy**

Emission and absorption of optical radiation, the widths of spectral lines, stimulated emission and transition probabilities, atomic structure and angular momentum coupling, the Zeeman effect, introduction to molecular spectroscopy. (Prerequisites: 64-323 and 64-450.) (A directed, self-study course. 1 consultation hour a week.)

#### **64-450. Quantum Mechanics I**

Probability amplitudes and transformations; operators and physical observables; symmetries and conservation theorems; time-development operator and Dyson expansion; two-state systems, density matrices; perturbation theory and the variational method; identical particles, spin, the Thomas-Fermi atom. (Prerequisites: 64-315, 64-350, and 62-360 or consent of instructor.) (3 lecture hours a week.)

#### **64-451. Quantum Mechanics II**

Scattering in one and three dimensions, the S matrix, partial waves, scattering phase shifts; JWKB approximation; the harmonic oscillator with annihilation and creation operators; Schroedinger, Heisenberg, and interaction pictures; matrix mechanics and Hilbert space; angular momenta and rotations. (Prerequisite: 64-450.) (3 lectures a week.)

#### **64-460. Condensed-Matter Physics**

Elements of crystallography, crystal diffraction, reciprocal lattices, lattice dynamics and thermal properties of solids, phonons, solution of Schroedinger equation in periodic potential, band theory, Fermi surfaces of metals and semiconductors, optical properties of dielectrics. (Prerequisite: 64-314 or consent of instructor.) (3 lecture hours a week.)

#### **64-463. Special Topics in Physics**

Advanced topics in contemporary physics. (Prerequisite: to be determined according to the topic.) (May be given as a seminar course, or as a directed, self-study course.)

#### **64-464. Special Techniques in Health Physics**

This course consists of a variety of specialized topics involving the applications of the principles of physics to the study and characterization of living tissues, and the detection and treatment of pathological conditions. Topics will include the applications of acoustic microscopy, computational and statistical methods in medical physics, nanotechnology, and the interaction of ionizing radiation with living tissue. (Prerequisite: 64-310 and 64-311, or the consent of the instructor.) (Students can not receive credit for both 64-464 or 64-612.)

#### **64-470. Radiological Physics**

Radioactive decay schemes, interaction of photons with matter, linear and mass attenuation coefficients, stopping power for charged particles, radiation detection and instrumentation. The course will include clinical experience. (Prerequisite: 64-310 and 64-311, or the consent of the instructor.)

#### **64-471. Introduction to Medical Imaging**

The course will cover a broad range of modern imaging techniques and their theoretical foundations, such as ultrasound, planar x-ray imaging, computer tomography (CT) imaging, magnetic resonance imaging (MRI), positron emission tomography (PET), and single positron imaging tomography (SPET). The course will include practical laboratory experience at the University of Windsor, and at the Windsor Regional Cancer Centre. (Prerequisite: 64-310 and 64-311, or the consent of the instructor.)

#### **64-484. Design and Application of Lasers**

Stimulated emission, rate equation approach to amplification and output power calculations; Gaussian beams, stable and

unstable resonators, Q-switching, mode-locking and cavity dumping, ruby, Nd:YAG and other solid-state lasers, semiconductor, gas and dye lasers. (Prerequisites: 64-311 or 64-220, and 64-222, or three years of Electrical Engineering or Engineering Materials, or equivalent.) (3 lecture hours a week.)

**64-496. Technical Communication Skills**

Introductory lectures and workshops on technical writing and instruction, followed by supervised instruction of first-year Physics students in 64-151, and projects in writing resumes and technical manuals and in preparing a multimedia computer module for a problem area in physics instruction. The computer module can employ any suitable combination of Maple, C++, Visual Basic, HTML, Java. (Prerequisite: 64-151.) (2 lecture, 2 laboratory hours a week.)

**64-498. Co-op Work Term III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course can not continue in the co-op program.)

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## POLITICAL SCIENCE: COURSES

Political Science 45-100, 45-130, and 45-160 are required of all general and four-year Honours students. It is recommended that these be taken in the first year or as corequisite with 200-level courses. Four-year Honours students are advised where possible to complete 02-250 and 45-275 during their second year. Non-majors wishing to do particular courses as options may do so except where specific prerequisites are stated. Not all courses will necessarily be offered each year. All courses are three hours a week unless otherwise indicated.

### 45-100. Introduction to Canadian Government and Politics

An introduction to the politics and government of Canada. The course will focus on political culture, the constitution, federalism, the executive, parliament, public service, courts, political parties, interest groups, and elections. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

### 45-130. Comparative Politics in a Changing World

Introduces students to issues such as democracy, authoritarianism, nationalism, political culture, and how political power is organized. The course focuses on the democratic states of the West, but also examines non-democratic states such as China and the transitional democracies of Eastern Europe. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

### 45-160. Issues in World Politics

An examination of competing perspectives on international relations and of such critical themes as power, security, war, imperialism, nationalism, interdependence, development and underdevelopment, human rights, environmental concerns, and the quest for a new world order. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

### 45-170. Introduction to Diaspora Studies: There's No Place Like Home

This course introduces students to diasporas-scattered populations living in exile from their ancestral homelands. The course focuses on the significance of migration, exile, belonging, and nostalgia (for ancestral homelands) for diasporas throughout the world. Students submit projects (incorporating oral histories, for example) on the diaspora of their choice.

### 45-201. Current Issues in Canadian Politics

An examination of one or more current issues in Canadian politics, for example, energy and resources, the environment, native peoples, aging, women's rights, urban problems, and health care.

### 45-211. Women and Politics

An introduction to the principal themes in the study of women in Canadian politics. Topics may include: feminist theory, women in Canadian political institutions, the status of women in the Canadian economy, and gender equality rights in the Charter.

### 45-212. Environmental Policy and Politics

The course examines the domestic and international context of environmental policy-making in Canada. Topics examined may include global warming, Great Lakes pollution, and endangered species.

### 45-213. Public Opinion, Mass Media and Canadian Democracy

An evaluation of the relationship between public opinion and democratic politics, how opinions, beliefs and attitudes are shaped by the family, educational system, peer groups, and in particular, mass media. Particular attention will be devoted to the role of the mass media in influencing public opinion and public policy.

### 45-214. Legal Process in Canada

An introduction to the legal system in Canada, including the sources of Canadian law, the general concepts of constitutional and administrative law, the court structure, and the place of the law and the courts in the community. (Also offered as Law 99-110.)

### 45-220. Introduction to Public Administration

An introductory examination of the major developments in private and public administrative and management theory and practice. Includes institutional structure, crown corporations, regulatory agencies, personnel, and financial management. Both federal and provincial problems are examined. (Prerequisite: 45-100 or consent of instructor.)

### 45-221. Canadian Public Administration and Policy

An introduction to the processes of public policy formation in Canada. Includes an analysis of political/bureaucratic relationships, decision making theory, and the role of interest groups in the context of selected contemporary policy issues. (Prerequisite: 45-220 or consent of instructor.)

### 45-232. Government and Politics of the United States

The organization and structure of national government in the United States, with emphasis upon congressional/executive relationships, political parties, and the electoral process.

### 45-233. Politics of the Developing World

An examination of the politics of developing areas, with a focus on economic and political development, ethnic conflict and the role of overseas development assistance in building government institutions. In given years, emphasis may be on Africa, Asia or Latin America and the Caribbean.

**45-237. Political Geography of Russia and the Former Soviet Republics**

An overview of the physical, cultural, historical, and political forces shaping the region and aspects of internal and international politics in the region. (Also offered as Geography 42-312.) (3 lecture hours a week.)

**45-238. Political Geography**

A systematic examination of the relationship between politics, power, and geography, with focus on the political meanings, uses, and representations of geographic space. Focus will be on major concepts within geography, such as scale, territory, and place, and the significance of geography for understanding the organization and exercise of political power.

**45-241. Contemporary African Politics**

Characteristic domestic and international problems of African states south of the Sahara, including resource scarcity, ethnic diversity, political stability, and relations with the Great Powers.

**45-244. Government and Politics in Europe**

Examines contemporary issues such as democratic development, nationalism, and regionalism, immigration and racism, the status of women, social welfare programs, and the consolidation and expansion of the European Union.

**45-249. Political Economy of Agriculture and Food**

Study of the physical, cultural, economic, and political factors influencing the spatial patterns and regional problems of world agriculture. (3 lecture hours a week.) (Also offered in Geography 42-249.)

**45-251. Classical Political Thought**

An introduction to the history of political thought from the ancient Greeks to the end of the Middle Ages. Topics may include human nature, justice, natural law, and the relationship between Church and State.

**45-252. Modern Political Thought**

Toward the new science of politics from Machiavelli to Rousseau and the French Revolution.

**45-255. Music, Policy, and the State**

A comparative analysis of issues raised by the state's role in the production, distribution, and performance of music. Examines the political and social uses and consequences of music including censorship, artistic freedom, ideological domination, group conflict, economic development, and marketplace regulation. The focus will be on popular music forms such as rock, rap, hip hop, folk, reggae, country, jazz, blues and others as suggested by students. (45-100, or consent of instructor.)

**45-260. Politics, History, and Asian Religions**

An introduction to Hinduism, Sikhism, Jainism, Buddhism, Taoism, Confucianism, and Shinto, with attention to their role in history and politics. (Also offered as Oriental Studies 10-317.)

**45-261. Politics, History, and Western Religions**

An introduction to Judaism, Zoroastrianism, Christianity, Islam, and BaHai, with attention to their role in history and politics.

**45-264. Introduction to Canadian Foreign Policy**

An overview of the formulation and trends of Canadian foreign policy from World War I to the present, together with an examination of the domestic and external determinants of Canadian foreign policy and of the foreign policy making process. (Prerequisite: 45-100, or 45-160, or consent of instructor.)

**45-267. Strategic Studies**

An examination of the theories, tools, and concepts that explain war and how international violence can be used for political ends. The focus will be primarily on the modern state system, especially on the post-WWII environment. Among topics to be addressed are theories of war, deterrence, arms control, the "democratic peace" thesis, and proliferation of weapons of mass destruction. (Prerequisite: 45-160 or consent of the instructor.)

**45-268. International Organizations**

An introduction to the problems and possibilities of international co-operation and global governance among states and non-state actors. The course will provide a survey of various international organizations. These may include the United Nations, NATO, the European Union, and NAFTA. The role of non-governmental organizations in world politics is also examined. (Prerequisite: 45-160 or consent of instructor.)

**45-275. Introduction to Research Methods**

Introduces students to quantitative and qualitative social research. Looks at how surveys and focus groups are used and abused for political and commercial purposes. Examines what field and archival research can teach us about human behaviour and social, political, and economic trends. (Prerequisite: 02-250.)

**45-288. Selected Topics: Current Political Issues**

Selected topics based on current political issues. Topics may vary from year to year. (May be repeated for credit if topics vary.)

**45-309. Canadian Provincial Government**

A comparative study of provincial governments and politics in Canada including an examination of the powers exercised by provinces, the institutions of provincial government and the behaviour of provincial electorates and politicians. In given terms, Ontario, Quebec, the Atlantic or the Western provinces may be given particular attention. (Prerequisite: 45-100 or consent of instructor.)



**45-313. Federalism and Federal-Provincial Relations**

The theory and practice of contemporary federalism and the roles played by the federal and provincial governments in the Canadian policy process. Topics may include the division of powers in the Canadian Constitution, the evolution of Canadian Federalism, the impact of the Quebec issue on Canadian politics, and intergovernmental relations. (Prerequisite: 45-100 or consent of instructor.)

**45-314. Constitutional Law and Politics in Canada**

The nature and purpose of constitution and major issues in Canadian constitutional politics. Topics may include judicial review, the development of human rights law in Canada, the impact of the Charter of Rights on Canadian politics and government, and the Meech Lake and Charlottetown constitutional accords. (Prerequisite: 45-100 or consent of instructor.)

**45-320. Political Parties and Elections**

An analysis of the development and functions of parties and of the social, psychological, and political influences on voting in Canada.

**45-321. The Legislative Process**

An introduction to representative democracy, parliamentary behaviour, and legislative process. May include role-playing exercises and a simulation of the Federal House of Commons.

**45-323. Government and Business**

An introduction to the intricate relationship of government to business. Included are: government services to business; business and policy development; and regulation and/or de-regulation and regulatory agencies. (Prerequisite: 45-100 or consent of instructor.)

**45-326. (Municipal) Urban Administration**

A study of administrative structures and the principles of administrative organization in local government including budgetary systems, personnel management, the conduct of public relations, and the application of systems methods. (Prerequisites: 45-220 and 45-221, or consent of instructor.)

**45-328. Public Financial Management**

An introduction to managing public finances, including the link between public policy, revenue and expenditures, budgets and budget systems, and accountability. (Prerequisites: 45-220 and 45-221, or consent of instructor.)

**45-329. Public Personnel Management**

An introduction to personnel management under a merit system including the roles of public service commissions (recruitment, training, career development, dismissal) and public sector labour relations agencies (collective bargaining); political rights, employment equity. (Prerequisites: 45-220 and 45-221, or consent of instructor.)

**45-346. Asian Government and Politics**

Comparative analysis of institutions and political processes of Southeast Asia, South Asia, China, or Japan.

**45-351. Community and Power in Modern European Thought**

An exploration of the subject of community and power in European thought between 1850 and the late twentieth century. Special attention will be paid to Marxism/Leninism, elitist theory, fascism, and structuralism/poststructuralism. (Also offered as History 43-326.)

**45-354. Political Problems of Economic Development**

The course takes a comprehensive approach to the study of economic development, drawing connections between theory (including development paradigms) and practice. In given years, the focus may be on South-East Asia, Central Asia, Africa, China, Eastern Europe, or Latin America. (Prerequisite: 45-160 or consent of instructor.)

**45-355. Political Economy of International Trade**

An examination of the most prevalent dilemmas facing the global trading system. The main focus is on the World Trade Organization and its global agreements on goods, agriculture, services and intellectual property. Additional topics include regional trade blocs, international trade in money, foreign direct investment, and environmental and labour issues. (Prerequisite: 45-160 or consent of instructor.)

**45-356. Theories of International Political Economy**

An examination of the major theoretical perspectives in the field of international political economy. This course will cover both classical and modern theories, including mercantilism, liberalism, Marxism, feminism and post-modernism. (Prerequisite: 45-160 or consent of Instructor.)

**45-360. International Conflict and Its Resolution**

The nature of conflict and how it is managed in the international community; explicit and tacit bargaining strategies and techniques of conflict resolution. (Prerequisite: 45-160 or consent of instructor.)

**45-361. U.S. Foreign Policy**

The United States policy-making process and the substance of policy in relation to the former communist world, developing countries, and allies such as Canada and Western Europe. (Prerequisite: 45-160 or consent of instructor.)

**45-363. Principles of International Law**

An introduction to the role of international law in international relations, this course will consider the role of justice in the international system and will examine the basic principles of modern international law, including sources, subjects, and

procedures. (Prerequisite: 45-160 or consent of instructor.)

**45-365. The Politics of the Middle East**

The nature and causes of the various conflicts in the region, the role of outside powers and international organizations, and the prospects for conflict resolution. (Prerequisite: 45-160 or consent of instructor.)

**45-367 The Politics of the European Union**

Examines the development and operation of the European Union. Key issues on the agenda of the European Union are examined, including: the introduction of the single currency; the development of a common foreign and security policy; and the possible enlargement of the European Union. The extent to which the European Union challenges existing state structures is examined throughout the course.

**45-370. Africa and the African Diaspora**

The course explores the experiences and relationships that Africans, Afro-Caribbeans, Black-Canadians, and African-Americans have with their host countries and their ancestral homeland-Africa. Topics may include the myth of a monolithic African Diaspora, slavery (forced migrations), exile, colonialism, Eurocentrism, Afrocentrism, "Back to Africa" movements, and multiple interpretations of Blackness. (Prerequisite: 45-170.)

**45-371. Millenarian Movements**

This course focuses on religious and political movements that anticipate an imminent end to the current order, and the initiation of the millennium (for example, the Nation of Islam, National Socialism, Christian Identity), and the impact of these groups on society.

**45-372. Religious Fundamentalism and Politics**

A study of the modern concept of religious fundamentalism, with case studies of the interface of fundamentalism and politics in North America, Europe, Africa and Asia.

**45-373. Islam and Politics**

The course develops an understanding of the complex relationship between Islam and politics in both historical and contemporary settings as well as an awareness of the diversity of interpretations among Islamic thinkers and activists concerning the political nature and role of Islam. Topics include the notion of an Islamic state, jihad, Shari'a, the interaction between Islam/Islamism and democracy, human rights, nationalism, international relations.

**45-379. Politics and Culture**

An examination of political themes as reflected in different forms of popular culture, including cinema and the media. Topics may include: war and cinema, and how commercial interests are portrayed in mass media. While the course may focus on different forms of cultural expression, the emphasis will be on understanding and evaluating how politically relevant themes are influenced and shaped for the mass public.

**45-399. Practicum in Government and Politics**

Practical work in the office of an elected or appointed official, with oral and written reports to the supervising faculty member. (To be taken only with permission of instructor and a program advisor in Political Science.)

**45-411. Canadian Politics: Participation and Processes**

A review of current literature on topics that may include parties, elections, voting behaviour, pressure groups, representation, new social movements, public opinion, and ideologies. (Admission by consent of instructor.)

**45-412. Canadian Federalism**

A review of current literature and development on such topics as federalism, intergovernmental relations, and the role of Quebec. (Admission by consent of instructor.)

**45-421. Seminar in Canadian Public Policy**

A detailed analysis of the Canadian public policy process. (Admission by consent of the instructor.)

**45-422. Seminar in Public Policy Analysis**

A survey of the evaluative side of public policy including formulation, adoption, program operations and evaluation techniques. (Admission by consent of the instructor.)

**45-431. Seminar in Comparative Politics**

A comparative examination of national political systems emphasizing areas such as political culture, political parties, elites, and interest groups. In given terms, the focus may be on industrialized or developing countries. (Admission by consent of the instructor.)

**45-434. Seminar in Politics of the United States**

An analysis of selected topics in United States politics and government. May include an examination of foreign perspectives on U.S. politics, Canadian-U.S. relations, parties and elections, civil liberties and civil rights, or other important topics in United States politics. (Admission by consent of instructor.)

**45-451. Seminar in Contemporary Political Theory**

An examination of selected topics in political theory, with special emphasis on the literature of the twentieth century. (Admission by consent of the instructor.)

**45-461. Seminar in Theories of International Relations**

A survey of competing perspectives and approaches employed in the contemporary study of international relations.

(Admission by consent of the instructor.)

**45-462. Interdisciplinary Approaches to Research in International Relations**

A research oriented seminar that will encourage the use of interdisciplinary perspectives in the examination of selected problems in international relations. (Admission by consent of instructor.)

**45-464. International Political Economy**

An overview of the major theoretical perspectives and issues in international political economy. Issues addressed may include: international trade, foreign investment and multinational corporations, international monetary institutions, and crisis and change in the international system. (Prerequisite: 45-160 or consent of instructor.)

**45-465. Globalization and the State**

A critical overview of the major theoretical perspectives and debates regarding the role of and implications for the state within globalization processes. Specific topics addressed may include changes in the nature of state sovereignty, the creation and regulation of a global economy, and cultural change and resistance. (Prerequisites: 45-328 and consent of instructor.)

**45-470. Human Rights in a Global Context**

This course provides an insight into international Human Rights (HR) concepts, their theoretical/legal framework, and their applicability in today's world, as well as an awareness of some of the relevant themes and debates surrounding HR issues. Themes include the philosophical foundations of HR, promotion or violation of HR, and HR in the world of politics, universality versus cultural relativism, and the possible dichotomy between individual and collective or group rights.

**45-488. Selected Topics in Political Science**

Topics of current interest which may vary from year to year. (May be repeated for credit with the permission of a program advisor in Political Science.)

**45-492. Public Service Management Internship Practicum**

Supervised work experience in a public service management environment. (Admission only by consent of program advisor.) (Offered on a Pass/Non-pass basis only.) (Must be taken concurrently with 45-493.)

**45-493. Public Service Management Internship Seminar**

A critical examination of selected theories and concepts applicable to research and management practices in the public sector. (Admission by consent of a program advisor.) (Must be taken concurrently with 45-492.)

**45-499. Directed Reading in an Approved Special Field**

Intended for students with special interest in areas not covered in sufficient depth by other courses. (To be taken only with permission of instructor and a program advisor in Political Science.)

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## PSYCHOLOGY: COURSES

Not all courses will be offered each year. All courses are three hours a week unless otherwise indicated.

Priority for registration in 300- and 400-level courses may be given to students with General Psychology Majors, Psychology Honours, Developmental Psychology Honours, or Combined Honours.

### 46-115. Introduction to Psychology as a Behavioural Science

Introduction to selected areas in psychology including learning, perception, physiological psychology, emotion, and motivation.

### 46-116. Introduction to Psychology as a Social Science

Introduction to selected areas in psychology including developmental, social, personality, and clinical.

*46-115 and 46-116 are prerequisites for all other courses in Psychology. Some courses require additional prerequisites.*

### 46-220. Introduction to Adjustment and Personality

A survey of major approaches to the study of personality with a particular focus on the processes involved in adjustment.

### 46-223. Developmental Psychology: The Child

The study of normal child development from conception to puberty, including physical, cognitive, and social development within the child's family, school, and cultural contexts. Specific topics include temperament, language development, intelligence testing, personality development, and parenting styles.

### 46-224. Developmental Psychology: Adolescence

The study of normal adolescent development from puberty to early adulthood. Topics include physical changes at puberty, cognitive and social development, and the impact of adolescent development within various contexts, including families, peer groups, and schools.

### 46-225. Developmental Psychology: Adulthood and Aging

The study of adult development including stages in adulthood, problems of aging, and issues related to death and dying.

### 46-229. Experimental Psychology

Introduction to basic experimental methods and design for establishing causal relationships in psychology, illustrated with laboratory exercises in human perception and cognition. Also covered are comparisons with non- and quasi- experimental research methods for testing theoretically derived hypotheses and consideration of research ethics and appropriate style for reporting findings. (Credit will be granted for only one of 46-229 and 46-230.) (2 lecture and 2 laboratory hours per week; limited enrolment.) (Antirequisites: 46-230, 95-270.)

### 46-230. Social Science Research Methods

Introduction to experimental and non-experimental research methods and designs commonly used in psychology and other social sciences (e.g., experiments, quasi-experiments, survey research, observational studies, content analysis). Includes conducting research exercises/projects dealing with social, personality, developmental, and/or educational issues, writing research reports, and consideration of research ethics. (Credit will be granted for only one of 46-229 and 46-230.) (2 lecture, 2 laboratory hours per week; limited enrolment.) (Antirequisites: 46-229, 95-270.)

### 46-235. Identity Processes

An exploration of the pivotal role identity plays in the organization and actions of social life. (Also offered as Sociology 48-235.) (Prerequisites: both 46-115 and 46-116, or 48-101 and either of 48-102 or 49-112.)

### 46-236. Introduction to Social Psychology

An introduction to the theories, methods, findings, and problems associated with the study of the individual in the social context. Topics include social cognition; interpersonal behaviour (attraction, aggression, altruism); social attitudes, prejudice, and discrimination; social influence and group processes (conformity, leadership, intergroup relations). (Also offered as Sociology 48-236.) (Prerequisites: 46-115 and 46-116, or 48-101 and 48-102.)

### 46-237. Introduction to Clinical Psychology

A survey of clinical and abnormal psychology, including historical development, theoretical perspectives on causes and intervention, classification of disorders, diagnosis, and assessment. The course also covers legal and ethical issues arising in the context of major psychological abnormalities, with some focus on developmental, psychophysiological, and neurological disorders. (Prerequisites: 46-115 and 46-116.) (Antirequisite: 46-232.)

### 46-240. Psychology of Sex and Gender

Review of philosophical, historical, theoretical, and research literature in the psychology of sex and gender. Topics include male/female stereotypes; similarities/differences based on research data; and current social issues.

### 46-256. Introduction to the Brain and Human Behaviour

Reviews basic research relating brain and behaviour with a focus on human functioning. Includes the study of neuronal and synaptic activity and results from current research and case histories which link human behaviour to basic neuroanatomical and biochemical brain systems.

**46-310. Tutorial**

Individual projects in specific areas of psychology. (May be repeated once for credit.) (Prerequisites: 46-115, 46-116, and four additional courses in Psychology.)

**46-313. Advanced Statistics**

One-way, two-way, and higher order ANOVA, repeated measures ANOVA, multiple comparisons, correlation and univariate regression, introduction to multivariate regression and the general linear model, with an emphasis on computer data analysis. (Prerequisite: 02-250.) (Credit can only be obtained for one of 46-313 or 48-308.)

**46-320. Tests and Measurement**

An introduction to basic concepts of psychological testing, with a focus on test development, measurement, and test evaluation. Standard tests used to assess personality, achievement, and aptitudes will be surveyed. (Prerequisite: 02-250.)

**46-322. Child Psychopathology**

An overview of theory and research related to the assessment, diagnosis, and treatment of childhood and adolescent disorders. Risk factors, vulnerability to stress, and protective factors will be addressed in relation to adjustment disorders, conduct disorder, depression, and anxiety in children and adolescents. (Prerequisite: 46-223 or 46-224.)

**46-323. Developmental Disabilities**

An overview of theory and research related to the biological foundation of childhood and adolescent developmental disabilities. Mental retardation, sensory and motor impairments, learning disabilities, and disorders with physical manifestations are included in the topics covered. (Prerequisite: 46-223 or 46-224.)

**46-324. Educational Psychology**

Psychology of the learning process and the variables that affect learning such as intelligence, motivation, attitudes, interpersonal relations, and cultural background. (Prerequisite: 46-223.)

**46-327. Psychological Perspectives on Parenting**

Contemporary theories and practices of parenting throughout the life cycle, with an emphasis on the psychological aspects of the family system. (Prerequisite: 46-223.)

**46-330. Personality Theory and Research**

Survey of personality theories and relevant research. Theories may include psychoanalytic, trait, behavioural, humanistic, cognitive, and biological. Some research topics relevant to personality theory will be outlined and illustrated with reference to selected content areas of personality.

**46-331. Conducting Research in Psychology**

Required for students anticipating honours thesis projects in their fourth year. Topics include: how to generate research ideas, philosophy and place of research in psychology, utilizing research advisors and supervision, using library resources, writing research reports, ethical issues in student research, planning effective research designs, dealing with participant recruitment and data collection, locating research measures, making data analysis decisions, using statistical packages such as SPSS, disseminating research ideas and findings. (Prerequisites: 02-250, 46-229 or 46-230; and consent of the Undergraduate Program Chair.)

**46-332. Human Motivation and Emotion**

A survey of theories, models, and research on the psychological aspects of human motivation and emotion. Social, cognitive, behavioural, and biological perspectives on human motivation and emotion will be examined and applied to areas such as achievement, relationships, health, stress and anxiety, depression, addictions, creativity, and well-being. (Prerequisites: 46-115 and 46-116.)

**46-334. Applied Social Psychology**

The application of social psychology to solving social issues. Topics include improving job satisfaction and organizational life, promoting community health, meeting social welfare needs, dealing with environmental problems, improving educational systems, and addressing the issues of social justice and equality. The course may involve a fieldwork component. (Prerequisite: 46-236.)

**46-335. Human Sensation and Perception**

The study of underlying mechanisms and processes of human sensation and perception, methods of measuring human sensory abilities, and the perceptual processes for integrating and interpreting such information. (Prerequisite: 46-229 or 46-230.) (2 lecture, 2 laboratory hours per week.)

**46-336. Behavioural Neuroscience**

Issues relevant to behavioural neuroscience. Functional neuroanatomy and models of brain systems related to perception, emotion, motivation, learning, and memory. Introduction to neurotransmitter systems and their relationship to behaviour. (Prerequisites: 46-115, 46-116, either 46-256 or 55-204 and three additional courses in Psychology.)

**46-337. Human Cognitive Neuroscience**

Issues relevant to the brain and human behaviour. Recent research selected from areas of developmental, cognitive, and clinical neuropsychology. Introduction to cognitive neuroscience modelling. (Prerequisites: 46-115, 46-116, either 46-256 or 55-204 and three additional courses in Psychology.)

**46-339. Health Psychology**

Application of psychology to the areas of health promotion, prevention and treatment, and improvement of health-care

delivery. Theory, research, and practice in health psychology and behavioural medicine will be examined. Specific areas of emphasis may include stress, illness, and coping; patient-practitioner interaction; adjustment to chronic illness; reproductive health issues; and cross-cultural conceptions of illness and healing. (Prerequisite: 46-236.)

#### **46-342. Culture and Psychology**

This course examines psychological theory and research on the commonalities and variations in human behaviour within and across cultures. Topics may include individualism and collectivism, perspectives on the self, communication and interpersonal relations, intergroup relations, organizational behaviour, and the consequences of cross-cultural contact. (Prerequisite: 46-236.)

#### **46-348. Abnormal Psychology**

A consideration of the specific disorders included in the current Diagnostic and Statistical Manual of Mental Disorders, including theoretical perspectives about abnormal behaviour and psychopathology. The course also includes consideration of relevant research concerning causes, treatment, diagnosis, and assessment of the disorders covered. (Prerequisite: 46-237.) (Antirequisite: 46-233.)

#### **46-353. Learning and Behaviour**

Basic principles and theories of classical and operant conditioning and their application to human behaviour. (Prerequisite: 46-229 or 46-230.) (2 lecture, 2 laboratory hours per week.)

#### **46-355. Comparative Psychology**

Introduction to animal behaviour from the viewpoint of its role in the natural life of the individual and the species. A synthesis of contributions by comparative psychologists, ethologists, ecologists, and zoologists. (Prerequisites: 46-115, 46-116, and four additional courses in Psychology.)

#### **46-358. Cognitive Processes**

A review of current contributions to the understanding of attentional, memory, problem solving, and reasoning processes. (Prerequisite: 46-229 or 46-230.) (3 lecture, 1 laboratory hours per week.)

#### **46-370. Organizational Psychology**

The study of human behaviour in organizational settings and the organization itself. Topics include organizational design, organizational change and development, organizational culture, norms and roles, work motivation, job satisfaction, communication, work teams decision making, power and politics, and leadership. (Prerequisites: 46-115 and 46-116; or Labour Studies students must have at least Semester 5 standing; or consent of instructor.) (Also offered as 54-370.)

#### **46-371. Personnel Psychology**

The study of human resource issues in work and other organizational settings. Topics include job analysis, job design, job evaluation, selection and promotion techniques, employment equity issues, performance management, training and development, compensation and reward systems, and the changing nature of jobs. (Prerequisites: 46-115 and 46-116, or consent of instructor.)

#### **46-400. Selected Topics in Psychology**

Seminar on a selected topic in psychology. Content will vary with instructor. (Prerequisites: 46-115, 46-116, four additional courses in Psychology, including courses as specified by the instructor. May be repeated for credit.)

#### **46-415. History and Systems of Psychology**

The emergence and development of psychology as a science. A review and evaluation of major systems of psychology, such as structuralism, functionalism, behaviourism, Gestalt psychology, and psychoanalysis. Emphasis will be placed on the contributions of the systems to contemporary theoretical conceptions and trends. (Prerequisites: 46-115, 46-116, and four additional courses in Psychology.)

#### **46-420. Psychology of Music**

A study of the principles underlying the practice of music therapy and musical behaviour. The study of psychological aspects of musical behaviour; psycho-acoustics, music perception, affective and physiological responses to music, music learning, and measurement. (Also offered as Music 32-420.) (Prerequisite: 32-120 or 46-115 and 46-116.)

#### **46-421. The Psychology of the Family**

An analysis of theory and research examining the impact of family context on individual development throughout the life cycle. (Prerequisites: 46-223; restricted to 4th year Psychology/Developmental Psychology majors).

#### **46-422. Advanced Developmental Psychology: Emotional Development**

This seminar examines issues related to emotional development from infancy through adult years. The experience, expression, and regulation of emotion will be discussed from various historical and academic perspectives. (Prerequisite: 46-223 or 46-224.)

#### **46-423. Advanced Developmental Psychology: Cognitive Development**

An examination of current theories, research methods, and findings in the area of cognitive development. (Prerequisite: 46-223 or 46-224.)

#### **46-424. Advanced Developmental Psychology: Social Development**

This seminar examines established and newly-emerging theories of development and their impact on social development research. Emphasis is placed on describing social developmental outcomes (e.g., gender, emotion, morality), and the influence of biological factors (e.g., temperament) and socialization agents (e.g., parents, media) on such outcomes. (Prerequisite: 46-223 or 46-224.)

**46-425. Seminar in Developmental Psychology**

Focus on a particular topic within the area of developmental psychology. Topics will vary from term to term. (May be repeated for credit.) (Prerequisites: 46-115, 46-116, 46-223 and three additional courses in Psychology.)

**46-427. Methods of Behavioural Change**

Survey of theories and methods of behavioural change, including behavioural assessment and analysis, relaxation training, graduated exposure, contingency management, and cognitive restructuring. (Prerequisite: 46-335 or 46-353 or 46-358.)

**46-428. Practicum in Developmental Psychology**

Supervised practicum in learning-based behaviour change strategies. Students will practice behavioural assessment and systematic remediation of clinical problems through application of operant techniques in community placements. (Restricted to 4th year Developmental Psychology majors with cumulative and major averages of at least 8.0.) (Prerequisites: 46-427 and consent of instructor.) (Antirequisite: 46-429.) (1.5 lecture hours and 8 practicum hours per week.)

**46-429. Practicum in Psychology**

Supervised practicum in a university or community setting. Students will consolidate and enhance their knowledge about psychology and skills in connection with a specific project, activity, or task. The practicum experience may include the opportunity to be involved in some aspect of community change, peer counselling, or research, among other possibilities. (Prerequisites: consent of instructor; restricted to 4th year Psychology majors with cumulative and major averages of at least 8.0) (Antirequisite: 46-428.) (1.5 lecture hours and 8 practicum hours per week.)

**46-430. Clinical and Counselling Psychology**

The principles and techniques underlying clinical interviewing and modern psychotherapeutic methods. Emphasis will be placed upon the application of clinical interviewing and modern psychotherapeutic methods, as well as the application of clinical methods in clinics, hospitals, schools, mental health settings, and community agencies. (Prerequisite: 46-237.) (2 lecture, 2 laboratory hours per week.)

**46-432. Community Psychology**

An examination of societal and environmental influences on the community and individual community members, the development of the community mental health movement, and current issues in theory, research, and practices in community psychology. Emphasis will be placed on prevention, crisis intervention, and effecting social change. An overview of community-based professional and volunteer services will be presented. Community responses to issues such as homelessness, suicide, and violence against women will be considered. (Prerequisite: 46-236.)

**46-433. Seminar in Law and Psychology**

Issues in the interaction between law and psychology; discussion of the use/misuse/nonuse of behavioural sciences in the law; emphasis on how psychology can best be applied to family, criminal, and civil law. (Prerequisites: 46-115, 46-116, and four additional courses in Psychology.)

**46-436. Seminar in Psychopathology**

Focus on a particular topic within the area of abnormal behaviours. Topics will vary from term to term. (Prerequisites: 46-237.)

**46-440. Seminar in the Psychology of Women**

An examination of the feminist critique of mainstream psychology research of the last century, of feminist approaches to research and theorizing, and applications of feminist psychology to the study of a number of topics in the psychology of women (e.g., mental health, violence against women, sexuality). (Prerequisite: 46-240 or consent of instructor.)

**46-441. Special Topics in Health Psychology**

This specialized course is designed for students who wish to pursue their interests in health psychology in greater depth. The course will focus on a particular topic within the area of health psychology, and topics will vary from term to term, depending on the emphasis of the instructor. Possible special topics could include Women's Health, Personality and Health, and the Social Psychology of Health. (Prerequisite: 46-339.)

**46-445. Stereotyping, Prejudice, and Discrimination**

Psychological theory and research on stereotyping, prejudice, and discrimination; their formation and function; the role of individual and sociocultural factors in their development and maintenance; individual responses and psychological interventions. (Prerequisite: 46-236.)

**46-457. Comparative Cognition**

Evidence of general and specialized cognitive processes in human and nonhuman organisms will be investigated. Topics to be covered include memory systems, concept formation, and nature of stimulus representation. Current research on these and other topics will be reviewed and analyzed. (Prerequisite: 46-335 or 46-353 or 46-358.)

**46-475. Popular Literature in Psychology**

A forum for critical examination and analysis of popular literature written by psychologists or others functioning in the role of counselor or lay expert. The main goal is to identify both traditional and novel criteria for assessing the validity of popular literature and its contribution to knowledge. (Prerequisites: 46-115, 46-116, and four additional courses in Psychology.)

**46-496. Thesis: Seminar**

Experience in conducting psychological research is viewed as necessary for graduate work in psychology. This course is designed to provide such experience through planning, developing, and writing a research proposal under individual faculty supervision. Group sessions on research ethics, procedures, writing, and data analysis. (Prerequisites: either 46-229 or 46-

230; 46-313 or equivalent; 46-331; one of 46-335, 46-353, or 46-358; and cumulative and major averages of at least 9.0; consent of Undergraduate Program Chair.) (Prerequisites for B.Sc. Honours Behaviour, Cognition and Neuroscience students: either 46-229 or 46-230; 46-313 or equivalent; 46-335, 46-353, and 46-358; G.P.A. of 9.0 or higher in Psychology courses; consent of Undergraduate Program Chair.)

**46-497. Thesis: Research**

Students will conduct and write an undergraduate thesis under individual faculty supervision. (The thesis is developed and begun while taking 46-496). (Prerequisite: 46-496.)



# Winter 2008 Undergraduate Calendar

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Social Work course 47-304 is for Social Work majors, Combined Social Work/Women's Studies, and Combined Social Work/Diaspora Studies majors only. Acceptance to the professional years (Years 3 and 4) of the B.S.W. program is required for registration in all other required 300 and 400 level courses. All Social Work elective courses in the professional program at the 300 and 400 level are restricted to senior level (<i>i.e.</i>, beyond term 4) students in Social Work or cognate disciplines or require the permission of the instructor. Social Work majors will be given priority when registering for these courses.</p> <p>All courses are three hours a week unless otherwise indicated.</p> <p><b>**Note:</b> The term "Social Work major" includes combined majors in Social Work and another program.</p> <p>Social Work electives can be taken interchangeably by Year 3 and Year 4 students, except where prerequisites have been identified.</p> <p>Not all courses listed will necessarily be offered each year.</p> <p><b>47-117. Meeting Human Needs through Social Welfare</b> Examines the historical, philosophical and political aspects of the development and delivery of the Canadian Social Welfare System. Special attention will be focussed on ways to identify and assess the needs of, and services to, vulnerable populations within the context of social and cultural diversity.</p> <p><b>47-118. Meeting Human Needs through Social Work</b> This course provides an introduction to social work processes. Attention will be given to the needs of vulnerable and marginalized populations within traditional and alternative Social Work perspectives such as ecological, systems, strengths, feminist, and anti-oppressive practice.</p> <p><b>47-204. Issues and Perspectives in Social Welfare</b> Examines various ideologies that shape the social welfare system and their impact on citizens, clients and organizations. The impact of these diverse perspectives on the different roles of social workers are examined with particular emphasis on value conflicts and how these conflicts shape and affect policies and programs. (Prerequisites: 47-117 and 47-118 or permission of instructor.)</p> <p><b>47-210. Social Work and Diversity</b> Examines oppression and anti-oppressive social work practice as they relate to social inequality and life circumstances. Various forms of institutionalized oppression such as racism, ableism, ageism, colonialism, heterosexism, anti-semitism, and sexism are analyzed. The experiences, needs, and responses of populations that have been historically excluded, disadvantaged, and oppressed are examined. Social Work practice which fosters inclusion, participation, and social justice is emphasized. (Prerequisites: 47-117 and 47-118 or permission of instructor.)</p> <p><b>47-303. Social Policy and Social Welfare</b> Introduces the student to the formulation and analysis of social policy. The student uses knowledge of social services as a basis for assessing and recommending changes in existing programs or services, and for introducing new services. Special attention is given to identifying policy gaps in services and unmet needs of vulnerable populations within the generalist practice framework. (Prerequisite: 3rd or 4th year Social Work Major or Combined Major in Social Work, or permission of instructor.)</p> <p><b>47-304. Professional Communication in Generalist Social Work Practice</b> Examines the various types of professional communication utilized in generalist social work practice. Selected conceptual frameworks for verbal, non-verbal and written communication are reviewed and analyzed. Professional communication skills are developed through the use of laboratory exercises which focus on translating conceptual frameworks for communication into action in generalist social work practice. (Open to Social Work Majors and Combined Majors in Social Work only.) (Prerequisites: 47-117, 47-118, 47-210 or Program II enrolment.)</p> <p><b>47-305. Organizational Practices in Human Services</b> Provides an overview of historical and contemporary organizational and inter-organizations theories of management. Examines the role of human service organizations in promoting social justice and emphasizes social work administrative practices such as planning and goal setting, personnel management, budgeting, motivation, decision-making, continuous quality improvement, team building, and the management of a diverse workforce. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)</p> <p><b>47-336. Theory and Practice of Generalist Social Work I</b> Examines the knowledge base, principles and techniques of social work generalist practice and the use of social work values in the context of offering help focusing on individuals (micro-level). Included are the use of interpersonal relationships as a medium for helping and the use of theories of human interaction within various systems as a base for problem assessment. Emphasis will be on practice with individuals in their social context. Time will be taken to ensure the integration of classroom learning with student's experiences in their field placements. (Must be taken concurrently with 47-361, and 47-362.)</p>
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**47-337. Theory and Practice of Generalist Social Work II**

Builds upon the generalist practice model of social work presented in 47-336. It extends generalist social work concepts to small groups as client systems. Focus will be on analysis and application of generalist knowledge, values and skills for assessment and intervention with small groups. Time will be devoted to ensure the integration of classroom learning with students' experiences in their field placements. (Must be taken concurrently with 47-363, and 47-364.) (Prerequisite: 47-336.)

**47-344. Research I: Foundations of Social Work Research**

Prepares students to critically analyze social work research applicable to generalist practice. Foundation principles of rational and empirical inquiry are examined across the continuum of qualitative and quantitative research designs which may be appropriately employed in a variety of practice contexts. The purpose is to enable the practical interpretation of social work research to be used integratively in practice with diverse clients, particularly those who have been marginalized or oppressed. (Prerequisite: 3rd or 4th year Social Work Major or Combined Major in Social Work, or permission of instructor.)

**47-346. Risk and Resilience: Perspectives on Human Development**

Examines human development in the social environment from a strengths-based perspective. Using a biopsychosocial orientation, emphasis is placed on identifying risk and protective factors that affect coping and adaptation to stressful life events. Focuses on how social systems (families, groups, organizations, institutions, and communities) promote or deter such efforts. Implications for multilevel interventions are discussed and evaluated. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-347. Abuse in the Family**

Examines aspects of abuse and violence in the family. The primary focus is on generalist social work family intervention in cases of abuse or violence, and on societal provision for sheltered separation and family reconstitution or dissolution. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.) (Also offered as 53-347.)

**47-350. Field Practice I**

Provides students with professionally supervised experiences in community agencies and programs. Field education provides opportunities to carry generalist social work practice responsibilities. Open only to third year Social Work majors. (Must be taken concurrently with 47-336 and 47-337.) (Approximately 53 days in two semesters. Students must register for both semesters in order to earn credit.) (A 6.00 credit hour course.) (Available only by permission of the instructor and only to students who were registered in Social Work prior to July 1, 2001.)

**47-356. Serving Older People**

The role of the social worker in such areas as institutionalization, community care and social support, separation and loss, family structures, and retirement, with emphasis on social policy as a determinant of services and practice. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-357. Child Welfare**

Examines issues in the present structure and functioning of services for children. The rights of children and their need for services will be examined in relation to existing services, such as protection, adoption, foster care, health services, and compulsory education, with special attention to extra-family parenting responsibilities. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-361. Field Practice I - A**

Provides students with professionally supervised experience in community agencies and programs and with opportunities to carry generalist social work practice responsibilities. (Open only to third-year Social Work majors. Must be taken concurrently with 47-336, and 47-362. 100 hours per semester, normally 1 day per week.)

**47-362. Field Practice I - B**

(Open only to third-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-336, and 47-361. 100 hours per semester, normally 1 day per week.)

**47-363. Field Practice I - C**

(Open only to third-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-337 and 47-364. 100 hours per semester, normally 1 day per week.)

**47-364. Field Practice I - D**

(Open only to third-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-337 and 47-363. 100 hours per semester, normally 1 day per week.)

**47-370. Mothering and Motherhood**

This course examines Western society's ideas of motherhood, in particular the social construction of "good" and "bad" mothers, from an interdisciplinary perspective. Differences associated with class, race, ethnicity, and sexual preference will be considered. (Prerequisite: Semester 4 or above standing and two Women's Studies courses.) (Also offered as Women's Studies 53-370.)

**47-410. Social Work and the Law**

Explores the evolution of law in our society, along with a critical examination of the institutions which law has spawned. The legislative, administrative, and judicial functions of law will be studied in terms of their social implications. Significant current legislation will be reviewed to understand the context, purpose, development, and impact. Finding, tracking, referencing, and analyzing legislation is an integral part of this course. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-412. Selected Topics in Social Work**

Selected topics according to faculty and student interests may be offered. Topics may include issues related to social work practice, social welfare, or fields of practice. (May be repeated for credit if the course content differs.) (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-434. Social Work with Children**

This course is designed to provide students with knowledge and understanding of social work practice with children. The focus is upon the development of a framework of knowledge for making practice decisions involving the child client. The design, implementation, and evaluation of alternative social work intervention strategies are included. The special set of techniques utilized in social work practice with children will be highlighted. (Prerequisite: 47-436.)

**47-436. Theory and Practice of Generalist Social Work III**

Builds upon the generalist model of social work practice presented in courses 47-336 and 47-337. It extends generalist social work concepts to families as multi-client systems. Focus will be on analysis and application of generalist knowledge, values and skills for assessment and intervention with families. Time will be taken to ensure the integration of classroom learning with students' experiences in their field placements. (Prerequisite: 47-337.) (Must be taken concurrently with 47-461 and 47-462.)

**47-437. Theory and Practice of Generalist Social Work IV**

Applies the generalist social work practice model at the macro level. It focuses on planning, implementing, and evaluating interventions with communities and human service organizations. Special emphasis will be placed upon addressing the needs and issues of oppressed and culturally diverse groups. In addition, the integration of classroom learning with the students' experiences in their field placements is emphasized. (Prerequisite: 47-436.) (Must be taken concurrently with 47-463 and 47-464.)

**47-447. Research II: Evaluation of Social Work Practice**

Prepares students to evaluate generalist social work practice. It builds on the principles covered in Foundations of Social Work Research and focuses on conducting research relevant to the evaluation of individual practice interventions, programs and policies. The course's purpose is to enable students to incorporate such methods in their practice with diverse clients, particularly with those who have been marginalized or oppressed, to effectively serve them. (Prerequisite: 47-344.)

**47-448. Professional Issues in Social Work**

This course examines topics of current relevance for the profession of social work. Professional issues such as social control, suitability, ethical dilemmas, work-place issues of power, oppression and marginalization will be considered. The Social Work Code of Ethics will be used as the "lens" to explore case examples of situations that present professionals with ethical dilemmas, that challenge personal and professional values and require a sound grounding in professional ethical decision-making in the face of grave circumstances. Empowerment practice will serve as an integrative framework for the consideration of professional issues. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-450. Field Practice II**

Open only to fourth year Social Work majors. Provides students with professionally supervised experiences in community agencies and programs. Provides enhanced opportunities to integrate knowledge and skills sufficient for responsible entry into practice upon graduation. (Must be taken concurrently with 47-436 and 47-437.) (Approximately 53 days in two semesters; students must register for both semesters in order to get credit.) (A 6.00 credit hour course.) (Available only by permission of the instructor and only to students who were registered in Social Work prior to July 1, 2001.)

**47-455. Social Work and Mental Health**

This course focuses on social work practice in the field of mental health. It will integrate policy, practice and research to mental health issues across the life-span. The course will examine social work practice assessment and intervention techniques. Both chronic and acute mental health issues will be examined. Community-based care and institutional care perspectives will be presented. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-456. Social Work and Health**

Explores generalist social work practice with various client systems in transaction with the Canadian health care system. Systems' structural characteristics as well as their philosophical underpinnings will be surveyed in a historical and theoretical context. This will be accomplished with current social work models using the person-in-environment framework and general systems theory. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-457. Social Work and Addictions**

Provides social work students with practice knowledge concerning the etiology, implications, and treatment issues related to addictions and substance abuse. Topics will include the history and consequences of addictions and substance abuse, addictions and the family, special at-risk groups, social policy and legal issues, medical and social-psychological aspects, and current research issues as well as the implications for intervention. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-458. Women's Issues and Social Work**

Examines gender issues, social processes and policies which construct women's realities in the context of a diverse society. The course will critique issues such as: poverty, equality, unemployment and welfare, child-care, reproductive rights, mental health, physical health and domestic violence. (Open to senior students. Social Work Majors and Combined Majors in Social

Work will be given registration priority.)

**47-459. Social Work and Criminal Justice**

The role of social work in various correctional areas and the place of corrections within the criminal justice field will be critically examined, along with some of the issues which currently confront these fields of practice. Emphasis throughout will be on the community context of practice and reference to such concepts as prevention, recidivism, and treatment will be discussed in terms of the implications for practice. (Open to senior students. Social Work Majors and Combined Majors in Social Work will be given registration priority.)

**47-461. Field Practice II - A**

Provides students with professionally supervised experience in community agencies and programs and with opportunities to carry generalist social work practice responsibilities. Provides enhanced opportunities to integrate knowledge and skills sufficient for responsible entry into social work practice upon graduation. (Open only to fourth-year Social Work Majors and Combined Majors in Social Work.) (Must be taken concurrently with 47-436 and 47-462.) (100 hours per semester, normally 1 day per week.)

**47-462. Field Practice II - B**

(Open only to fourth-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-436 and 47-461. 100 hours per semester, normally 1 day per week.)

**47-463. Field Practice II - C**

(Open only to fourth-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-437 and 47-464. 100 hours per semester, normally 1 day per week.)

**47-464. Field Practice II - D**

(Open only to fourth-year Social Work Majors and Combined Majors in Social Work. Must be taken concurrently with 47-437 and 47-463. 100 hours per semester, normally 1 day per week.)

**47-470. Counselling Girls and Women**

Examines the principles, processes, and techniques utilized in counselling girls and women as a component of generalist social work practice. Structural factors in the social context which affect the experience of girls and women of all ages as well as aspects of their development are considered in the assessment of obstacles that may result in the need for counselling from a generalist social worker. Individual, group, and family counselling that empowers girls and women to overcome obstacles and fulfill their potential in the context of social and cultural diversity is emphasized. (Prerequisites: 47-304, 47-336, 47-337.) (Also offered as 53-470.)

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## SOCIOLOGY AND ANTHROPOLOGY: COURSES

### *SOCIOLOGY*

Not all courses listed will necessarily be offered each year. All courses are three hours a week unless otherwise indicated.

#### **48-101. Principles and Methods of Sociology**

The course is designed to acquaint students with the basic theories and methods used by sociologists. Emphasis will be placed on such concepts as culture, socialization, sex roles, organizations, stratification, and deviancy. (3 lecture, or 2 lecture, 1 tutorial/laboratory hour a week.)

#### **48-102. Social Institutions and Social Change**

The course will focus on the description and analysis of institutions such as the family, religion, education, polity, and economy. Changes in society reflected in population and urban living, and theories of change will be discussed. (Prerequisite: 48-101.) (3 lecture, or 2 lecture, 1 tutorial/laboratory hour a week.)

#### **48-202. Foundations of Sociological Theory**

The theories of Comte, Marx, Durkheim, Weber, and others who contributed to the development of the discipline of sociology. (Prerequisites: 48-101 and either 48-102 or 49-112.)

#### **48-204. Sociology of Families**

Sociological perspectives on cross-cultural variations and changes in marriage, kinship, and families, examining forms, structures, and organization of intimate relationships. (Prerequisites: 48-101 and either 48-102 or 49-112.)

#### **48-205. Sociology of Sexualities**

An analysis of sexual differentiation, sex role acquisition, sexual attitudes, sexual behaviour, and the sex structure of Canadian society. (Prerequisites: 48-101 and either 48-102 or 49-112.)

#### **48-206. Development of Family Forms**

Changing family forms in the context of industrialization, urbanization, and individualism. Examines legal and political influences on diverse families, and how they respond.

#### **48-207. Canadian Social Problems**

An analysis of the diverse problem areas in the complex Canadian society, including the effects of social, technological, and culture change on institutions, and the problems caused by social disorganization, intergroup conflict, deviance, and crime. (Prerequisites: 48-101 and either 48-102 or 49-112.)

#### **48-210. Quantitative Research**

Introduction to social research focusing on classical (positivist and post-positivist) research paradigms. The use of existing data, experimental methods, and survey methods will be covered. (Prerequisites: 48-101 and either 48-102 or 49-112; or Labour Studies students must have at least Semester 3 standing.)

#### **48-225. Work and Organizations**

An examination of the changing world of work from a variety of theoretical perspectives. The course examines workplace organization, including management strategies and workers' responses. Special topics include: work in the automobile, clothing, or other specific industries, contemporary changes in work organization and organizational issues involving class, ethnicity, and gender. (Also offered as Labour Studies 54-225.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 3 standing.)

#### **48-226. Introduction to International Development**

An overview of the history and contemporary problems of economic development and underdevelopment and their effects upon marginalized populations; an assessment of issues such as the impact of colonialism, the nature and function of the global economy, the problems of food production, economic dependency, cultural resistance, and social change. (Also offered as Anthropology 49-226.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100.)

#### **48-227. Globalization and Social Change**

An analysis of global and local social factors leading to the rise and decline of authoritarian, liberal democratic and post-revolutionary state systems in Canadian and Latin American societies. Topics include the formation of international elites and trading blocs, the pressure to restructure, and popular responses to globalization. (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100.)

#### **48-228. Class, Wealth and Power in Canada**

The study of structured social inequality. The existence of class and power structures and their effects on the lives of Canadians. The relation of different forms of inequality based on class, ethnicity, and gender. The various strategies people employ to respond to inequality. (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100.)

#### **48-232. Indigenous Peoples: A Comparative Perspective**

A cross-cultural examination of issues concerning indigenous peoples in Canada and other parts of the world through a discussion of topics such as land claims, resource development, resistance, cultural rights, popular movements, and government policy. (Also offered as Anthropology 49-232.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-

100.)

**48-234. Sociology of Everyday Life**

A study of how face-to-face, person-to-person interaction is sustained in human society. The course is built around the fact that human beings operate on the level of symbolic meanings. It thus takes into account the ways in which framing, or definition of a situation influences the character of the interaction. Included is the study of the underlying structures of social interaction, such as the organization of talk, spatial relationships, and body-language. (Prerequisites: 48-101 and either 48-102 or 49-112.)

**48-235. Identity Processes**

An exploration of the pivotal role identity plays in the organization and actions of social life. (Also offered as Psychology 46-235.) (Prerequisites: 48-101 and either 48-102 or 49-112; alternate prerequisites: 46-115 and 46-116.)

**48-236. Introduction to Social Psychology**

An introduction to the theories, methods, findings, and problems associated with the study of the individual in the social context. Topics include social cognition; interpersonal behaviour (attraction, aggression, altruism); social attitudes, prejudice, and discrimination; social influence and group processes (conformity, leadership, intergroup relations). (Also offered as Psychology 46-236.) (Prerequisites: 46-115 and 46-116; or 48-101 and 48-102.)

**48-240. Ethnic Relations in Canada**

A study of ethnic minorities in pluralistic Canada, with particular focus on immigration trends, theories of assimilation and ethnic retention, policies of multiculturalism, differential adaptation, separatist movements, and the pursuit of collective rights. (Also offered as Anthropology 49-240.) (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112, or consent of instructor.)

**48-241. Race and Racism in Canada**

An analysis of the nature and practice of racism, and the role and status of racial minorities in Canada, focusing on causes and consequences of racism, forms of discrimination, anti-racist struggles, and policy initiatives for the creation of an egalitarian society. (Also offered as Anthropology 49-241.) (Prerequisites: 48-101 and 49-112 or 54-100, or consent of instructor.)

**48-251. Women, Sexuality and Social Justice**

This course examines the personal and cultural meanings of women's sexual identities in Canada today. Students consider how these identities are created and experienced in conjunction with other identities such as race/ethnicity, social class, and (dis)ability and how women challenge the personal, social, political, and economic inequities that continue to be based on these identities. Students are encouraged to analyze how their beliefs and behaviours are shaped by heterosexual privilege. (Also offered as Women's Studies 53-201.)

**48-280. Urban Design**

An introduction to the visual and spatial elements which affect urban form. The course includes a survey of analytical methods employed in the design process, such as: assessment and monitoring of user needs, analysis of environmental contexts, and the incorporation of new technologies. (Also offered as Planning 50-251.) (3 lecture hours a week.)

**48-281. Contemporary Architecture**

A survey of the roots of contemporary architectural theory through an examination of representative structures since the Industrial Revolution. Students will be introduced to those individuals who have played a central role in the development of architectural thought in North America. (Also offered as Planning 50-291 and Art History 28-391.) (3 lecture hours a week.) (Cross-listed with 28-391.)

**48-302. Contemporary Sociological Theory**

A review of modern theoretical approaches in sociology. Emphasis is placed on current schools of thought, such as Symbolic Interactionism, Structural-Functionalism and other approaches. (Prerequisite: 48-202.)

**48-305. Sexuality and Health**

Contemporary topics in sexuality and health examined from Canadian and international perspectives, such as HIV and AIDS, sexual health movements, and the social construction of sexual dysfunction. (Prerequisite: semester 5 or higher standing)

**48-306. Sociology of Women**

An overview of the economic, educational, familial, political, and religious factors affecting the position of women in society. A socio-historical analysis of the change in the roles and status of women in Canada and internationally with a view to understanding the nature of their impact upon major societal institutions. (Also offered as Anthropology 49-306.) (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112.)

**48-308. Intermediate Statistics**

Basic inferential statistics, including estimation, confidence intervals, and hypothesis testing. Also included is the application of computer packages to selected statistical problems. (Also offered as Geography 42-231 and Planning 50-231.) (Prerequisite: 02-250.) (Credit can only be obtained for one of 46-313 or 48-308) (2 lecture hours, 1 laboratory hour a week.)

**48-310. Qualitative Research**

An introduction to interpretive research strategies, such as participant observation, historical comparative analysis, interviewing, and discourse analysis. Ethical issues raised in research will also be discussed. (Prerequisites: 48-101, 48-210, and either 48-102 or 49-112; or Labour Studies students must have at least Semester 5 standing.)

**48-321. Formal Organizations in Comparative Perspective**

An examination of the organization of work in national and cultural contexts. The focus is on the influence of societies, including their traditions, languages, and institutions on the organization of work. This course examines organizations in comparative perspective, looking at Japanese or other managerial strategies in industrialized and newly industrializing countries. (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112; or Labour Studies students must have at least Semester 5 standing.)

**48-326. Jobs, Careers, and the Labour Market**

An examination of occupations and the changing labour market. This course examines the ways people choose occupations and develop careers, the nature of professions and professionalization, unemployment and its consequences, and the influence of occupations on individuals and society in a wider sense. Special topics include the impact of technological change on the occupational structure of younger and other populations. (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 5 standing.) (Also offered as Labour Studies 54-326)

**48-327. Social Movements**

An examination of theories and case studies of world revolutions, class struggles, and various social movements, such as the feminist, gay and lesbian, labour, native, ecological, and other movements. (Also offered as Labour Studies 54-327.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 5 standing.)

**48-329. Contemporary Families**

Examines the empirical sociological literature on families and their formation in the context of postwar change with emphasis on the Canadian experience, including key demographic trends such as the rise of cohabitation and two-earner families, and changes in divorce rates. (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112; and 48-204.)

**48-330. Latin America: A Comparative Perspective**

Selected problems of rural and urban development, the debt crisis, nationalism, and cultural change will be examined through an analysis of specific Latin American countries. (Also offered as Anthropology 49-330.)

**48-332. Labour and the Industrialization Process**

The development of Canadian industry and workers' responses to industrialization are examined. Special topics may include early industrialization and its effects, the development of monopoly capitalism, the emergence of service and other new industries, the impact of new technologies, changes in the division of labour, the impact of globalization and economic restructuring, the development of new management approaches such as lean production, changes in women's work, the development of labour unions, and the role of women, youth, and minorities at work. (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100; or Labour Studies students must have at least Semester 5 standing.)

**48-333. Nationalism and Ethnic Conflict**

An analysis of ethnic identity, ethnic group formation, ethno-political mobilization, nationalism, racism, ethnic conflicts, ethnic violence including genocide, and conflict resolution in various societies throughout the world. (Also offered as Anthropology 49-333.) (Prerequisites: any two of 48-101, 48-102, 49-111, 49-112, or 54-100.)

**48-334. Dynamics of Interaction**

Interaction with others is a central activity in everyday life. This course examines processes of interaction, such as negotiation, conflict, coalition building, and communication in the context of interpersonal and group relations. (Prerequisites: 48-101 and either 48-102 or 49-112; 48-235 is recommended.)

**48-336. Medical Anthropology/Sociology**

A brief history of the development of the discipline. Problems and the nature of health and diseases in ancient and modern human populations; concepts of health and disease and indigenous medical systems. Aspects of social organization and the prevalence of diseases. Roles of curers, medical practitioners, support staff, patients, and their interrelations; technological innovations and the problems of health. (Also offered as Anthropology 49-336.) (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112.)

**48-340. Food and Global Sustainability**

A comparative examination of the emergence of a global food system and its implications for culture and the environment. (Also offered as Anthropology 49-340.)

**48-351. Gay and Lesbian Studies**

A multidisciplinary review of critical issues in the social organization and representation of same-sex bonding, including discussion of: cross-cultural studies, historical constructions of homosexuality and romantic friendship, coming out and identity, relationships and family, theories of homophobia and sexual repression, the development of communities and social movements in modern societies, the impacts of AIDS, and the emergence of queer theory.

**48-352. Gender and International Development**

An examination of the impact of global processes on gender relations, including a consideration of the importance of cross-cultural variations in the family, political/economic systems, and gender ideologies. (Also offered as Anthropology 49-352.) (Prerequisite: 48-226 or 49-226, or consent of instructor.)

**48-353. Women, Power, and the Environment**

This course focuses on environmental issues as they affect women across cultures. It provides a feminist critical analysis of the power relations in modern societies that cause environmental degradation and examines the theories, policies, and institutions that contribute to unsustainable practices. Emphasis is placed on the women-nature debate within various

environmental social movements and the historical role women have played as activists. (Also offered as Women's Studies 53-320.) (Prerequisite: completion of at least ten courses in any program.)

**48-354. Gender, Space, and Time**

An examination of sociological and anthropological approaches to the study of space-time relations within the field of gender studies, including a focus on the development of gendered environments and cultural practices. (Also offered as Anthropology 49-354.) (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112.)

**48-355. Life Histories and Anthropology**

An exploration of life history methods as a technique of fieldwork within anthropology, and its relationship to ethics, data collection, and knowledge production. (Also offered as Sociology 49-355.) (Prerequisite: 49-213 or consent of instructor.)

**48-375. Social Justice and Global Change**

An examination of issues of social justice arising from the intensification of social and economic inequalities within an increasingly globalized world. Topics may include the emerging international human rights framework, national and transnational struggles to bring about social change, and post-colonialism. (Also offered as Anthropology 49-375.) (Prerequisites: 48-101 and either 48-102 or 49-112/49-213 or 38-101 Introduction to Social Justice.)

**48-381. Neighbourhood Planning**

The theory and methods of urban planning in Canadian communities, with emphasis on: social issues in inner city neighbourhoods, planning for the inner city, and the roles of planners in residential communities. (Also offered as Planning 50-342.) (3 lecture hours a week.)

**48-393. Environmental Planning**

An introduction to the principles of sustainable development as applied to urban planning. This course will focus on the policies, standards, and practices used in creating and maintaining environmentally responsible communities. Topics will include growth management, mixed land use, adaptive infrastructures, alternative transportation, energy conservation, and waste management.

**48-403. Culture and Ideology**

The study of the influence of social location on human understanding, including the social organization, creation, and distribution of knowledge. Topics may include how social practices shape scientific knowledge, the origins of common sense and conventional wisdom, how politics affect medical definitions, and cultural constructions of class, gender, race, and sexuality. (Prerequisite: 48-302, or consent of instructor.)

**48-404. Theories of Postmodernism**

An inquiry into the sociological dimensions of the current debate over modernity, postmodernity, and poststructuralism. The course will critically discuss Enlightenment legacy embodied in contemporary debates over science, knowledge, representation, subjectivity, power, and liberation. It will ask such questions as: Is the modern world coming to an end, or a new beginning? Do conventional ways of conceptualizing social relations need reformulation? Have metanarratives come to an end? (Prerequisite: 48-302, or consent of instructor.)

**48-405. Symbolic Interactionist Theories**

An exploration of the methodological and theoretical perspectives within symbolic interactionism. These distinct perspectives encompass the classical Meadian tradition, dramaturgy, ethnomethodology, reality construction, and the most recent thoughtways of reflexive sociology and cultural studies. (Prerequisite: 48-302, or consent of instructor.)

**48-406. Marxist Social Theories**

An examination of the central concepts of Marxist theories. The course will cover the evolution of Marxist theories as well as current debates about the relationship of Marxism to feminism, social movements, culture, and contemporary class structures. (Prerequisites: 48-202, and 48-302 or consent of instructor.)

**48-408. Feminist Theories**

Exploring feminist thought; key themes may include theoretical approaches to diversity and identities, globalization, the politics of pleasure, reproductive politics, gender, sexualities, and social movements. (Prerequisite: 48-302, or consent of instructor.)

**48-409. Family, Gender and Culture**

A critical examination of key issues and debates in the study of family relations with an emphasis on gender politics and ideologies. Topics may range from explanations of the diverse images and meanings of families to issues of moral regulation, pro-family movements, and reproductive policies. (Prerequisite: 48-204 or consent of instructor.)

**48-411. Challenging Global Development**

A critical examination of theories and policies of global development and underdevelopment, including explorations of alternatives to modernization. (Also offered as Anthropology 49-411.) (Prerequisites: 48-226 or 49-226, or consent of instructor.)

**48-413. Visual Sociology**

A theoretical inquiry into the social dimensions of visual imagery that examines how society both produces and responds to images. Topics may include the sociological study of paintings, photographs, films, fashions, and everyday objects, and how they are shaped by the various meanings that constitute social and cultural life. (Also offered as Anthropology 49-413) (Prerequisites: 48-302 or 49-356).

**48-415. Culture, Power, and Globalization**



Discussion of the theoretical issues raised by application of cultural theory in a global context, including a discussion of contemporary theoretical approaches to understanding the way local cultural practice is influenced by macrosocial processes, and including an assessment of the post-modernist critique of anthropology. (Also offered as Anthropology 49-415.) (Prerequisites: 48-202 and 48-302; or any two 200-level or higher Anthropology courses and 49-356; or consent of instructor.)

**48-416. Methods of Survey Research**

The design, implementation, and analysis of sample surveys will be carried out through completion of a sample survey. Topics will include research design, questionnaire construction, and techniques of interviewing, coding, and data analysis. (Prerequisites: 48-210, and one of 46-313 or 48-308, or consent of instructor.) (3 lecture hours, or 2 lecture hours, 1 tutorial/laboratory hour a week.)

**48-418. Writing Culture**

Contemporary approaches to ethnographic writing, including an exploration of the methodological and theoretical implications of the ethnography in the social sciences (Also offered as Sociology 49-418.) (Prerequisite: 49-355 or consent of instructor.)

**48-420. Special Topics in Power and Social Change**

The focus of this seminar may vary from term to term; consult a Sociology program advisor for details. (Prerequisite: 48-302, or consent of instructor.)

**48-421. Special Topics in Social Psychology**

Topics may vary from term to term; consult a Sociology program advisor for details. (Prerequisite: 48-302, or consent of instructor.)

**48-425. Field Studies**

A field course designed to give advanced students the opportunity to study cultures and environments in Canada and elsewhere. The focus and selected topics will vary with the geographic location. An additional fee will be charged to cover travel and accommodation costs. (Also offered as Anthropology 49-425.) (Prerequisites: 49-111, 49-112, and three 200- or 300-level courses.)

**48-428. Labour and Globalization**

An examination of the impact of contemporary globalization on work life and working class economic and political mobilization. Particular emphasis is placed on a comparative study of labour movement strategies with a view to understanding the nationally specific and cross national character of these responses. (Also offered as 54-428) (Prerequisites: 48-326 or 54-301).

**48-447. Social Justice Practicum**

This course offers students the opportunity to apply their academic knowledge within community organization settings. Students will be given the opportunity to learn about the day-to-day operation and structure of a participating social justice agency through observation of, and discussion with, staff and executive members. Students will be assigned a major project to carry out for the agency under the supervision of the course instructor and an on-site practicum supervisor. Students will be expected to meet regularly with the course instructor and to provide oral and written reports on their experience during the term. (Open to Sociology, Anthropology, Criminology, and Family and Social Relations majors with semester 7 standing, major grade average of 9.0, and successful completion of 48/49-375. Additional specific prerequisites: Sociology majors: 48-302; Anthropology majors: 49-213 plus any two 200-level or higher anthropology courses; Family and Social Relations majors: 48-204 and permission of program adviser.) (Course enrollment is limited and a letter of application is required.) (Also offered as Anthropology 49-447.)

**48-450. Theories of Sexuality**

A consideration of various theoretical models applied to the study of human sexuality. Specific topics include socio-historical perspectives, feminist issues, men's studies, gay and lesbian studies, forms of sexual imagery and expression, and the social impact of sexually transmitted disease. (Prerequisite: 48-205 or consent of instructor.)

**48-480. Housing Policy**

A study of social issues related to housing. Emphasis is on the supply, demand, and legal aspects of housing policy, as well as current, pressing issues such as affordability and sustainability. (Also offered as Planning 50-403.) (3 lecture hours a week.)

**48-496. Honours Essay**

Independent research or internship conducted under the supervision of an individual faculty member. (Prerequisites: 48-302, and one of 48-310, 49-355, or consent of instructor.)

**CRIMINOLOGY**

**48-260. Introduction to Criminology**

Theories and research in crime causation, the nature and extent of crime, and policy responses. (Prerequisites: 48-101 and either 48-102 or 49-112.)

**48-261. Law and Social Justice**

This course explores the relationships among law, rights, and social justice. It introduces basic legal concepts, theories, and structures and examines how these bear on inequalities and collective efforts to effect social change. (Prerequisite: 48-101 or consent of instructor.)

**48-262. Administration of Criminal Justice**

This course seeks to provide the student with a basic understanding of some of the fundamental principles of Canadian criminal law and of selected features of the administration of criminal justice in Canada. Topics such as the history and background of the criminal law, the basis of criminal liability, the criminal courts, discretion in the criminal process, and penal policy will be discussed. (Also offered as Law 99-215.) (Open only to students enrolled in Criminology or Certificate in Criminology and Criminal Justice programs.) (Prerequisites: 48-101 and either 48-102 or 49-112.)

**48-361. Youth in Conflict with the Law**

The course covers theories of delinquency causation, the youth justice system, Young Criminal Justice Act, prevention, and treatment programs. (Prerequisite: 48-260.)

**48-362. Victimology**

Victimology is a subfield of criminology that focuses on victims within the study of crime. Topics explored may include: victimology patterns, the process and aftermath of the victimization experience, the involvement and treatment of victims in the criminal justice system, legal remedies and services available to victims, restorative justice initiatives, and victims' rights. (Prerequisite: 48-260.)

**48-363. Penology**

Study of the correctional institution including the impact of prison on inmates, the prison subculture, prison architecture, and administration, special institutions, and the assessment of education, occupational, recreational, and treatment programs. (Prerequisite: 48-260.) (Restricted to students admitted to third year Criminology or combined Criminology.)

**48-367. Corporate and Governmental Crime**

This course focuses on understanding corporate and governmental crime and criminal activities of organizational and institutional actors. Issues addressed may include government corruption, genocide, environmental crime, occupational health and safety, food safety, combine offenses, securities and various other kinds of fraud. The development and enforcement of criminal and civil corporate law will be examined along with different theoretical perspectives on criminal behaviour. (Prerequisites: 48-260 and 48-262, or consent of instructor.)

**48-368. Policing Society**

This course will provide an overview of the development of public policing and security in Canadian society. Topics will include the history, development, organization, role and mandate of public policing. The course will also introduce students to the concept of security and will cover interpretive models for assessing how policing and security are governed and practiced both in Canada and internationally (Prerequisites: 48-260 and 48-262, or consent of instructor.)

**48-370. Selected Topics in Criminology**

Course content varies by instructor and can be taken more than once if content changes. Details about the course will be made available through the department. (Prerequisites: 48-260 and 48-262, or consent of instructor.)

**48-371. Alcohol, Drugs, and Society**

A primarily social science orientation to alcohol and drugs with a focus on social structure, social learning, and public policy. Advanced concepts and issues surrounding substance use and abuse are introduced in a critical examination of current theoretical and research paradigms. Legislative, law enforcement, treatment, and prevention strategies are described and evaluated. Special topics include problems of alcohol and drugs related to sports, work, crime, and the current "war on drugs". (Prerequisite: 48-260.)

**48-460. Social Construction of Deviance**

An investigation of theory and research concerned with deviant behaviour. Topics may include: moral entrepreneurs and symbolic crusades, the medicalization of deviance, elite deviance, labeling mental illness and drunk driving, studies of the police, social agencies, correctional programs, and the treatment of mental illness. (Pre-requisites: 48-207 or 48-261, 48-210, 48-260, 48-262, 48-302 and 48-310 (or 49-355), or consent of instructor.)

**48-461. Family Law and Social Policy**

This course examines the law and government policies applicable to the family with a view to determining their impact upon the family. Particular topics may include family law reform, divorce and property rights, the care and custody of children, and definitions of family. (Pre-requisites: 48-207 or 48-261, 48-210, 48-260, 48-262, 48-302 and 48-310 (or 49-355), or consent of instructor.)

**48-464. Sociology of Law**

An investigation of the theoretical and research problems in jurisprudence, legal structures and practice. Focus of the course will vary by instructor. (Pre-requisites: 48-207 or 48-261, 48-210, 48-260, 48-262, 48-302 and 48-310 (or 49-355), or consent of instructor.)

**48-465. Women, Law, and Crime**

This course will examine major issues in the study of law and crime relevant to women. It will include a discussion of females as criminal offenders and as victims of crime, as well as addressing a variety of current topics in feminist legal scholarship, such as an examination of legislation governing women's bodies (e.g., abortion, sexual assault, prostitution, pornography, reproductive technologies). Focus of the course will vary by instructor. (Pre-requisites: 48-207 or 48-261, 48-210, 48-260, 48-262, 48-302 and 48-310 (or 49-355), or consent of instructor.)

**48-466. Contemporary Perspectives on Crime**

An advanced critical analysis of theory and research on crime. (Pre-requisites: 48-207 or 48-261, 48-210, 48-260, 48-262, 48-302 and 48-310 (or 49-355), or consent of instructor.)

**48-480. Housing Policy**

A study of social issues related to housing. Emphasis is on the supply, demand, and legal aspects of housing policy, as well as current, pressing issues such as affordability and sustainability. (Also offered as Sociology 48-480.) (3 lecture hours a week.)

**ANTHROPOLOGY**

Not all courses listed will necessarily be offered each year. All courses are three hours a week unless otherwise indicated.

Students wishing to concentrate in the area of international development in anthropology should consider the following guide for course selection: 49-112, 49-226 (or 48-226), 48-227, 49-232 (or 48-232), 48-321, 48-327 (or 54-327), 49-330 (or 48-330), 49-331, 48-332, 49-340 (or 48-340), 49-352 (or 48-352), and 49-411 (or 48-411).

**49-111. Introduction to Physical Anthropology and Archaeology**

An introduction to the biological evolution of humanity and the cultural evolution of human society, including a consideration of the significance of humanity's evolutionary past for an understanding of the contemporary world.

**49-112. Culture in Comparative Perspective**

An introduction to the variety of human cultures throughout the contemporary world. An examination of the significance of cultural anthropology for overcoming the barriers preventing the understanding of other cultures and ourselves.

**49-213. Perspectives on Culture**

An examination of the emergence, development, meaning, and idea of culture. The different ways the concept is used in applied anthropology, ethnographic research, and popular discourse are discussed. (Prerequisite: 49-112 or consent of the instructor.)

**49-214. Gender and Culture in Anthropology**

Current perspectives in anthropology on the intersection of gender and culture. Examines cross-culturally the themes of gender relations, concepts of masculinity and femininity, and gender-related power and politics. (Prerequisite: 49-112.)

**49-215. Principles of Physical Anthropology**

A study of humans as biological beings, humans in evolutionary context and their specializations; their nearest living relatives and varieties. Sources and the nature of variations in living human populations; significance of the variations and the concept of race; approaches to the problems of evolution of human populations. (Prerequisites: 49-111 and 49-112, or consent of instructor.)

**49-217. Principles of Archaeology**

A survey of the history, theory, and methods of anthropological archaeology. Emphasis is placed on archaeology's role as a social science, aimed at documenting and explaining past human cultural behaviour. (Prerequisites: 49-111 and 49-112, or consent of instructor.)

**49-220. Regional Aboriginal Archaeology**

Several important processes in the historical evolution of Native cultures in the Lower Great Lakes region are examined through the results of recent archaeological research. Topics include the peopling of the region, the development of farming, and early interactions with European culture. (Prerequisites: 49-111 and 49-112.)

**49-226. Introduction to International Development**

An overview of the history and contemporary problems of economic development and underdevelopment and their effects upon marginalized populations; an assessment of issues such as the impact of colonialism, the nature and function of the global economy, the problems of food production, economic dependency, cultural resistance, and social change. (Also offered as Sociology 48-226.) (Prerequisites: any two of 49-111, 49-112, 48-101, 48-102, or 54-100, or consent of instructor.)

**49-232. Indigenous Peoples: A Comparative Perspective**

A cross-cultural examination of issues concerning indigenous peoples in Canada and other parts of the world through a discussion of topics such as land claims, resource development, resistance, cultural rights, popular movements, and government policy. (Also offered as Sociology 48-232.) (Prerequisites: any two of 49-111, 49-112, 48-101, 48-102, or 54-100.)

**49-233. Selected Topics in World Ethnography**

Issues arising from the worldwide variation in the human condition are examined using ethnographic descriptions from different parts of the world. Topics may include cultural ecology, political organization, warfare, colonialism, and ethnic and national identities. The topics and cultures discussed may vary from year to year. (Prerequisites: 49-111 and 49-112.) (May be taken for credit more than once if content changes.)

**49-240. Ethnic Relations in Canada**

A study of ethnic minorities in pluralistic Canada, with particular focus on immigration trends, theories of assimilation and ethnic retention, policies of multiculturalism, differential adaptation, separatist movements, and the pursuit of collective rights. (Also offered as Sociology 48-240.) (Prerequisites: 48-101 and 48-102, or 49-111 and 49-112, or consent of instructor.)

**49-241. Race and Racism in Canada**

An analysis of the nature and practice of racism, and the role and status of racial minorities in Canada, focusing on causes

and consequences of racism, forms of discrimination, anti-racist struggles, and policy initiatives for the creation of an egalitarian society. (Also offered as Sociology 48-241.) (Prerequisites: 48-101 and 49-112 or 54-100, or consent of instructor.)

**49-306. Sociology of Women**

An overview of the economic, educational, familial, political, and religious factors affecting the position of women in society. A socio-historical analysis of the change in the roles and status of women in Canada and internationally with a view to understanding the nature of their impact upon major societal institutions. (Also offered as Sociology 48-306.) (Prerequisites: 49-111 and 49-112, or 48-101 and 48-102.)

**49-317. Selected Topics in World Archaeology**

Current archaeological thinking on several important episodes of humanity's cultural evolution are discussed. Topics include the human condition in the Pleistocene, the development of farming, the origins of civilization, and the archaeology of ethnicity. (Prerequisite: 49-217.)

**49-318. Field School: Excavation and Recovery Methods**

An introduction to the use of field recovery methods used in archaeology and/or forensic investigations. Emphasis is placed on the collection of information, analyzing data, description and classification, and interpretation. (Additional fees may be necessary to defray the costs of accommodation or meals on site.) (Prerequisites: 49-111, 49-112, and 49-217.)

**49-323. Forensic Anthropology**

An overview of anthropological methods as applied to death investigations. Topics may include detection, recovery, and examination of human remains; problems of identification and individualization; and the reconstruction of events that occurred around the time of death. (Prerequisite: 49-215, or consent of instructor) (Restricted to majors in Anthropology, Sociology, Criminology, Family and Social Relations, and Forensic Science programs.)

**49-330. Latin America: A Comparative Perspective**

Selected problems of rural and urban development, the debt crisis, nationalism, and cultural change will be examined through an analysis of specific Latin American countries. (Also offered as Sociology 48-330.)

**49-331. Aboriginal Peoples of Canada**

An examination of aboriginal communities in Canada and the processes leading to their transformation. The course will focus on specific ethnographic examples and provide an in-depth analysis of different ways of life. (Prerequisite: 49-232 or 48/49-241.)

**49-333. Nationalism and Ethnic Conflict**

An analysis of ethnic identity, ethnic group formation, ethno-political mobilization, nationalism, racism, ethnic conflicts, ethnic violence including genocide, and conflict resolution in various societies throughout the world. (Also offered as Sociology 48-333.) (Prerequisites: any two of 49-111, 49-112, 48-101, 48-102, or 54-100.)

**49-336. Medical Anthropology/Sociology**

A brief history of the development of the discipline. Problems and the nature of health and diseases in ancient and modern human populations; concepts of health and disease and indigenous medical systems. Aspects of social organization and the prevalence of diseases. Roles of curers, medical practitioners, support staff, patients, and their interrelations; technological innovations and the problems of health. (Also offered as Sociology 48-336.) (Prerequisites: 49-111 and 49-112, or 48-101 and 48-102.)

**49-338. Selected Topics in Material Culture**

The presentation and interpretation of material artifacts of culture. Topics may include museology, visual displays, the social construction of the past, and may vary from year to year.

**49-340. Food and Global Sustainability**

A comparative examination of the emergence of a global food system and its implications for culture and the environment. (Also offered as Sociology 48-340.)

**49-352. Gender and International Development**

An examination of the impact of global processes on gender relations, including a consideration of the importance of cross-cultural variations in the family, political/economic systems, and gender ideologies. (Also offered as Sociology 48-352.) (Prerequisite: 49-226, or 48-226, or consent of instructor.)

**49-354. Gender, Space, and Time**

An examination of sociological and anthropological approaches to the study of space-time relations within the field of gender studies, including a focus on the development of gendered environments and cultural practices. (Also offered as Sociology 48-354.) (Prerequisites: 49-111 and 49-112, or 48-101 and 48-102.)

**49-355. Life Histories and Anthropology**

An exploration of life history methods as a technique of fieldwork within anthropology, and its relationship to ethics, data collection, and knowledge production. (Also offered as Anthropology 48-355.) (Prerequisite: 49-213 or consent of instructor.)

**49-356. Cultural Theory**

Through a selective examination of classical theories, this seminar examines the ways in which anthropologists have drawn on the concept of culture. (Prerequisite: 49-213 or consent of instructor.)

**49-375. Social Justice and Global Change**

An examination of issues of social justice arising from the intensification of social and economic inequalities within an increasingly globalized world. Topics may include the emerging international human rights framework, national and transnational struggles to bring about social change, and post-colonialism. (Also offered as Sociology 48-375.) (Prerequisites: 48-101 and either 48-102 or 49-112/49-213 or 38-101 Introduction to Social Justice.)

**49-380. Selected Topics in Early Complex Societies**

Several Old and New World cases of the rise of complex society or civilization are considered, focussing on such topics as ecological requirements, specialization and stratification, techniques of rule, and the collapse of complexity. (Prerequisites: 49-111 and 49-112.)

**49-382. Selected Topics in European Prehistory**

Topics including the Mesolithic background, the Early Neolithic origins of farming, the Late Neolithic time of troubles and the Bronze/Iron Age rise of political complexity will be considered with reference to data from Germany, Scandinavia, Poland, Ireland and other regions. (Prerequisite: 49-217.)

**49-406. Aboriginal Peoples**

Advanced seminar on issues relating to aboriginal peoples in Canada and elsewhere.

**49-411. Challenging Global Development**

A critical examination of theories and policies of global development and underdevelopment, including explorations of alternatives to modernization. (Also offered as Sociology 49-411.) (Prerequisites: 48-226 or 49-226, or consent of instructor.)

**49-412. Human Skeletal Variation**

This course is an advanced critical review of theories and methods for collecting, analyzing, and interpreting data from human skeletal remains in bioarchaeological (paleopathology, paleodemography, etc.) and forensic contexts. Students will learn to pursue a biocultural approach for the study of human skeletal variation. (Prerequisite: 49-323, or consent of the instructor. Restricted to majors in at least semester 7 in Anthropology, Sociology, Criminology, Family and Social Relations, and Forensics.)

**49-413. Visual Sociology**

A theoretical inquiry into the social dimensions of visual imagery that examines how society both produces and responds to images. Topics may include the sociological study of paintings, photographs, films, fashions, and everyday objects, and how they are shaped by the various meanings that constitute social and cultural life. (Also offered as Sociology 48-413) (Prerequisites: 48-302 or 49-356).

**49-415. Culture, Power, and Globalization**

Discussion of the theoretical issues raised by application of cultural theory in a global context, including a discussion of contemporary theoretical approaches to understanding the way local cultural practice is influenced by macrosocial processes, and including an assessment of the post-modernist critique of anthropology. (Also offered as Sociology 48-415.) (Prerequisites: 48-202 and 48-302; or any two 200-level or higher Anthropology courses and 49-356; or consent of instructor.)

**49-418. Writing Culture**

Contemporary approaches to ethnographic writing, including an exploration of the methodological and theoretical implications of the ethnography in the social sciences. (Also offered as Anthropology 48-418.) (Prerequisite: 49-355 or consent of instructor.)

**49-425. Field Studies**

A field course designed to give advanced students the opportunity to study cultures and environments in Canada and elsewhere. The focus and selected topics will vary with the geographic location. (An additional fee may be charged to cover travel and accommodation costs.) (Also offered as Sociology 48-425.) (Prerequisites: 49-111, 49-112, and three 200- or 300-level courses.)

**49-441. Topics in Anthropology**

(May be offered as a seminar course if enrollment warrants, or as an independent study course.)

**49-445. Directed Studies in Anthropological Research I**

The student will carry through a limited research project under the direct supervision of a faculty member. (Prerequisite: Consent of instructor.)

**49-446. Directed Studies in Anthropological Research II**

The student will carry through a limited research project under the direct supervision of a faculty member. (Prerequisite: Consent of instructor.)

**49-447. Anthropology Practicum**

This course offers students the opportunity to apply their academic knowledge within community organization settings. Students will be given the opportunity to learn about the day-to-day operation and structure of a participating social justice agency through observation of, and discussion with, staff and executive members. Students will be assigned a major project to carry out for the agency under the supervision of the course instructor and an on-site practicum supervisor. Students will be expected to meet regularly with the course instructor and to provide oral and written reports on their experience during the term. (Open to Sociology, Anthropology, Criminology, and Family and Social Relations majors with semester 7 standing, major grade average of 9.0, and successful completion of 48/49-375. Additional specific prerequisites: Sociology majors: 48-302; Anthropology majors: 49-213 plus any two 200-level or higher anthropology courses; Family and Social Relations majors: 48-204 and permission of program adviser.) (Course enrollment is limited and a letter of application is required.)

(Also offered as Sociology 48-447.)

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## VISUAL ARTS: COURSES

Not all courses listed will necessarily be offered each year. Studio courses are six hours a week unless otherwise indicated. Art History courses are three hours a week unless otherwise indicated. Prerequisites for all Art History courses are waived for non-Visual Arts majors.

### 27-105. Studio Practice and Ideas/Space

An investigation of the principles, vocabulary and concepts of space-based art, including but not limited to sculpture and installation. Using traditional and contemporary materials, processes and practices, students will gain knowledge and experience through the exploration of the creative possibilities of three-dimensional space.

### 27-106. Studio Practice and Ideas/Image

An introduction to the fundamental skills and critical concepts of visual perception and production common to all areas of 2 dimensional image-making. Basic principles of composition and design, light and pigment-based colour theory, as these apply to painting, photo-based processes, and print production. Their use and application will be explored within the contemporary art context. Class projects may involve inter-disciplinarity between these media. Studio assignments are combined with related critical theory, historical practice and current strategies.

### 27-107. Studio Practice and Ideas/Drawing

An investigation of a variety of drawing processes, materials and concepts in a studio environment that fosters exploration. (Lab fees may apply.)

### 27-108. Studio Practice and Ideas/Time-Based

An investigation of the principles, vocabulary and concepts of time-based arts including digital media. Students will gain knowledge of the creative possibilities of emerging technologies and will develop a basic understanding of methods, tools and techniques of time-based media.

### 27-110. Introductory Drawing (for Non-Majors)

This course introduces a variety of approaches to drawing including drawing from observation, memory and imagination. A range of media and techniques in charcoal, graphite, pen and ink is explored. Additional emphasis is placed on the analysis of aesthetic and expressive aspects of two-dimensional form. (May not be taken for credit in Visual Arts and Combined Visual Arts Programs.) (Lab fees may apply.)

### 27-111. Introductory Drawing (for Non Majors) II

Continuation of 27-110. Continued exploration of a variety of approaches to drawing including drawing from observation, from memory, and from imagination. A range of media and techniques in charcoal, graphite, pen and ink are explored. Additional emphasis is placed on the analysis of aesthetic and expressive aspects of two-dimensional form. (May not be taken for credit in Visual Arts and Combined Visual Arts Programs.) (Lab fees may apply.) (Pre-requisite: 27-110.)

*The following courses are open to Visual Arts students only.*

### 27-203. Introductory Drawing

Media, techniques, vocabulary, and concepts of drawing, including the human figure and other subject matter. Development of drawing skills with exposure to more complex drawing situations, approaches, and points of view. Emphasis on a variety of materials (traditional and non-traditional). (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### 27-213. Introductory Painting

Introduction to traditional and contemporary painting concerns, problems in rendering three-dimensional form in space and organization of the two-dimensional surface. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### 27-223. Introductory Printmaking-Intaglio

Introductory and intermediate techniques of contemporary printmaking practice are taught through Intaglio. The techniques of etching, engraving and monoprints are emphasized. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### 27-224. Introductory Printmaking-Lithography

Introductory and intermediate techniques of contemporary printmaking practice are taught through Lithography including the concept of multiples and retrievability of image through stone, plate, transfer methods and papermaking. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### 27-233. Introductory Sculpture

An introduction to the various concepts and processes of contemporary sculpture practice. Issues will be addressed through group discussion and practical application. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### 27-243. Introduction to Time-Based Art

An introduction to the basic concepts and techniques in production and post-production for digital video art in the contemporary context. The relation between the idea, performance and medium of video will be explored in an experimental and critical environment. Assignments and screenings will stimulate students to explore issues inherent to the media in contemporary art as well as give a background to its brief history. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### **27-245. Digital Media and Images**

This course introduces students to the tools used to create art in virtual space, the history and investigation of the social, cultural and aesthetic issues pertinent to digital art making. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Lab fees may apply.)

### **27-253. Introductory Photography**

This introductory course in chemical and digital photographic processes provides an opportunity for students to explore techniques and concepts within the medium of photography. Students will learn the basic technical skills of operating cameras, processing film, making black and white prints, and digital imaging through a series of concerns specific to photography. (Prerequisites: 27-105, 27-106, 27-107, 27-108.) (Also offered as Communication Studies 40-205.) (Students must have a 35mm adjustable camera to complete this course.) (Lab fees may apply.)

### **27-303. Drawing**

Advanced problems in drawing, emphasizing individual directions, concepts, and various media. (Prerequisite: 27-203.) (May be repeated for credit.) (Lab fees may apply.)

### **27-313. Painting**

Development of the concepts and painting skills encountered in 27-213. Exploration of the creative potential, range, and flexibility of non-traditional techniques, forms and media. (Prerequisites: 27-213.) (May be repeated for credit.) (Lab fees may apply.)

### **27-326. Printmaking**

Continued development of contemporary printmaking practice. Further investigation of process-oriented issue-based image making, with emphasis on student's chosen direction. Students are encouraged to expand their analytical, experimental and creative skills. (May be repeated for credit.) (Prerequisites: one 200-level printmaking course.) (Lab fees may apply.)

### **27-333. Sculpture**

An in-depth study of concepts and processes as they pertain to contemporary sculpture practice. Issues will be addressed through group discussion and practical application. (Prerequisites: 27-233.) (May be repeated for credit.) (Lab fees may apply.)

### **27-343. Time-Based Art**

This course explores time-based media in more complex and demanding projects than 27-243. More advanced video projects will be undertaken. Other projects may include video installation, audio projects and documentary, performance/video or public interventions. This studio course encourages the thoughtful engagement of complex ideas through visual and/or audio means within some of the issues in visual culture and contemporary art practices. (Prerequisite: 27-243) (May be repeated for credit.) (Lab fees may apply.)

### **27-345. Digital Media and Interactivity**

This course introduces students to the basic concepts and tools of interactive multimedia as a creative medium in real space. Students will experiment with interactive structures for creative content development using digital images, sound, text, etc. for disk-based delivery environments. The acquisition of the technical knowledge will be grounded within an exploration of aesthetic and social issues. (May be repeated for credit.) (Prerequisite: 27-245.) (Lab fees may apply.)

### **27-353. Advanced Photography**

Continuation of the study of traditional and digital imaging processes in the area of camera use, black and white, and related darkroom and digital image techniques. Discussion, critiques and readings encourage students to expand their analytical and creative skills. Experimental approaches to the use of the photographic image, ideas and content are emphasized. (Prerequisite: 27-253.) (May be repeated for credit.) (Students must have a 35mm adjustable camera to complete this course.) (Lab fees may apply.)

### **27-365. Independent Studio**

Individual work on specific projects under the guidance of an instructor. (Prerequisite: one 300-numbered studio course in the subject desired and consent of instructor.) (May be repeated for credit.) (Lab fees may apply.)

### **27-380. Visual Arts Internship**

Practical work experience in arts organizations such as art centres, galleries, artists' studios, and visual arts related professional businesses. (Offered on a Pass/Non-Pass basis.) (Restricted to B.F.A. Visual Arts Majors in good standing after successful completion of portfolio review, and to Visual Arts Combined Honours with an average of 9.0 or better and with permission of the Visual Arts Internship Coordinator.) (100 hours total.)

### **27-383. Inter-Media Practices - Processes**

A studio/seminar course providing the basis for an interwoven art practice in an interdisciplinary context is developed through a critical approach to materials, issues, and art-making. Required readings/research pertinent to current issues are discussed in relation to studio production. Studio production integrating two or more Visual Arts' disciplines is expected. (Prerequisites: 27-203, two 200 level studios, and three 200 or 300 studios.)

### **27-384. Inter-Media Practices - Topics**

A practice-oriented seminar focusing on topics central to the interdisciplinary art practice in contemporary social and cultural contexts. Issues within areas such as history, gender, race and technology are considered within the context of varying perspectives. Students' studio production is challenged within a contemporary interdisciplinary environment. The students' individual production will be expected to be situated within the larger art and social context. (Prerequisites: 27-203, two 200 level studios, and three 200 or 300 studios.)



### **27-385. Green Corridor**

A cross-disciplinary course that investigates and proposes various strategies for the creation and realization of public environmentally-aware art projects. Course work contributes to the creation of a City of Windsor/University of Windsor Green Corridor. Projects are generated in conjunction with community-based research and involvement with special interest groups. Students will be involved in the research and development of concepts evolving from discussions and participation in series of lecture/seminars. Areas of investigation during the course will include environmental study and impact, the social and political functions of public art in contemporary culture, the public creative process, the importance of public education in the development of community-based projects, marketing of public art and environmental awareness. (Prerequisites: at least Semester 5 and in good standing, or graduate student.)

### **27-390. Studies in the Visual Arts**

Special projects, topics or cross-disciplinary undertakings in the Visual Arts, organized periodically. Specific information on course content will be available from Visual Arts (Prerequisites: consent of instructor.) (May be repeated for credit.) (Lab fees may apply.)

### **27-480. Studio Practice I**

The advanced student is given wide range to work in a chosen medium to synthesize accumulated knowledge and experience with individual critique provided by the instructor. (Prerequisites: 14 studio courses which must include 27-383 or 27-384 plus three 300-level courses in the same or related area.) (6 credit hours.)

### **27-481. Studio Practice II**

The advanced student is given wide range to work in a chosen medium to synthesize accumulated knowledge and experience with individual critique provided by the instructor. (Prerequisite: 27-480.) (6 credit hours.)

### **27-490. Seminar**

Investigation of professional practice and contemporary developments in the arts may include group discussion, visits to galleries, projects, lectures, written assignments. (Restricted to students registered in 400-level Studio Practice courses in the B.F.A. program only.) (Lab fees may apply.)

### **27-491. Critical Issues**

Development of an understanding of issues which have been addressed by contemporary artists and critics contextualized in history and artistic practices with an emphasis on individual students' concerns. (Restricted to students registered in 400-level Studio Practice courses or permission of the instructor.) (Lab fees may apply.)

## **ART HISTORY**

Not all courses listed will necessarily be offered each year. Prerequisites for all Art History courses are waived for non-Visual Arts majors. Art History courses are three hours a week unless otherwise indicated.

### **28-150. Contemporary Visual Culture**

A critical investigation of the visual imagery and artifacts of contemporary culture. Drawing upon examples from TV, advertising, cinema, cyber culture, architecture, design and art, students are introduced to such concepts as spectacle, kitsch, simulacrum, hypertext paradigm. (Lab fees may apply.)

### **28-214. Survey of Art History: Ancient to Medieval**

History of art from prehistoric through medieval, with an introduction to composition, the language of the plastic arts and its relationship to culture. (Students cannot receive credit for both 28-114 and 28-214.)

### **28-215. Survey of Art History: Renaissance to Modern**

History of art from Italian Renaissance to the twentieth century, with emphasis on the influence of social and philosophical ideas. (Students cannot receive credit for both 28-115 and 28-215.)

### **28-245. Modern Art**

This course will introduce students to the development of modern art from the late nineteenth century to the middle of the twentieth century. The course will cover the relationship between the artistic movements of the early twentieth century and the cultural and political ideas that informed them. This course will trace the rise of abstraction in the early part of the twentieth century as well as subsequent developments in Dada and Surrealism. (Prerequisite: 28-150 and 28-215 for majors; or semester four standing for non-majors)

### **28-300. Ancient Near East Art**

A comprehensive study of the art of Egyptian and Mesopotamian civilizations with emphasis upon those periods which had distinct cultural influence upon the peripheral areas of the Eastern Mediterranean. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

### **28-301. Northern Renaissance Art**

The art of Northern Europe during the fifteenth and sixteenth centuries with particular emphasis upon the Franco-Flemish and German painting traditions and the beginnings of Graphic Art. (Prerequisites for Visual Art majors: 28-214 and 28-215.)

### **28-307. Renaissance Art I**

The Renaissance in Italy during the fifteenth century with special attention given to the architecture, sculpture, and painting of Florence. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

### **28-308. Renaissance Art II**

The art of the Renaissance in Italy with a major consideration of the architecture, sculpture, and painting produced in Rome and Venice during the sixteenth century. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-331. Nineteenth-Century European Art**

An analysis of the major movements in European painting during the nineteenth century including Neo-Classicism, Romanticism, Realism, Impressionism, and Post-Impressionism. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-336. Early Medieval Art**

An examination of the painting, sculpture, and architecture of Europe including the Early Christian, Byzantine, Hiberno-Saxon, Carolingian, and Ottonian periods. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-337. Later Medieval Art**

An examination of the evolution of architecture and sculpture in Europe during the Romanesque and Gothic periods. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-338. Islamic Art**

An examination of important trends in the artistic development of the Muslim era, including the Umayyad, Tulunid, Fatamid, Seljuk, Mongol, Nasrid, Mamluk, Ottoman, Timurid, Safvid, and Mughal dynasties. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-339. Japanese Art**

The architecture, sculpture, and painting of Japan and the relationship of Japanese culture to continental artistic developments. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-340. Art of India**

A general survey of Indian architecture, sculpture, and painting with particular emphasis on the development of the Buddha Image. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-341. Art of China**

An examination on the architecture, sculpture, and painting of China from the Shang through the Ching dynasties. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-342. The Development of American Art**

A study of the art and architecture created in the United States from Colonial times to the twentieth century. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-343. Canadian Art**

A study of the development of visual art in Canada from its early beginnings to the present. Gallery visits and primary sources in Ontario will supplement class lectures and readings. (Prerequisites for Visual Arts majors: 28-214 and 28-215.)

**28-345. Art of the Twentieth Century-Post-1940**

An examination of the sources, movements, and major figures contributing to twentieth century art in Europe and North America from 1940 on. (Prerequisites for Visual Arts majors: 28-150, 28-214 and 28-215.)

**28-350. The Art of Reality**

An upper level course addressing the ways in which reality has been represented from the 17th century to the present. Students will be introduced to trends in the history of art and science that aimed to replicate the natural world: mirroring, doubling, and the development of optical instruments mechanical automata. Additionally we will look into traditions of realism in painting, film and photography, and the way in which reality has been challenged in recent years through digital technologies (live media and virtual reality) and conceptions of artificial life. (Prerequisites: 28-150, and semester 4 standing.) (Open to majors and non-majors.)

**28-391. Contemporary Architecture**

A survey of the roots of contemporary architectural theory through an examination of representative structures since the Industrial Revolution. Students will be introduced to those individuals who have played a central role in the development of architectural thought in North America. (Also offered as Sociology 48-281 and Planning 50-291.) (Prerequisites for Visual Arts majors: 28-214 and 28-215.) (3 lecture hours a week.)

**28-400. Directed Individual Studies**

This course involves examination of a particular problem in a specific area of interest in which a paper will be required. May be repeated for credit with permission of Visual Arts. For specific topics consult a program advisor in Visual Arts. (Prerequisites: 28-150, 28-214, 28-215, a 300-numbered course in the subject desired and consent of the instructor.)

**28-450. Border Culture**

This course addresses the role of borders in contemporary global culture as both physical boundaries and affective conditions. In the context of the Windsor-Detroit border, students from the University of Windsor will exchange viewpoints based upon the experience of living in a border culture. Seminars and field trips will take up the topic of borders from a number of perspectives and contexts. Students will look at historical and contemporary ideas about borders that have been articulated in various disciplines: from political theory and cultural geography, to urban planning, art, literature, architectural and spatial theory. (Open to majors and non-majors.) (Prerequisites: 28-150 and semester 4 standing.)

**28-456. Proseminar**

A Proseminar course based on group encounters with particular studies in the History of Art, which will be considered by means of readings, discussions, papers, and museum trips. May be repeated for credit with permission. For specific topics

consult a program advisor in Visual Arts. (Prerequisites: 28-150, 28-214, 28-215, and consent of the instructor.)

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## WOMEN'S STUDIES: COURSES

### 53-100. Women in Canadian Society

An introduction to Women's Studies of an interdisciplinary nature, designed to illustrate and account for the position of women in Canadian society. Possible areas of enquiry include health, law, politics, history, women and work, representation of women in literature, Canadian women artists and musicians.

### 53-106. Women and Religion

A comparative, feminist-critical exploration of the status of women and women's religious experience in selected examples of traditional (e.g., Judaism, Christianity, Islam, Hinduism, Buddhism) and non-traditional (e.g., Goddess religions, Wicca, Feminism) religions, ancient and modern. (Can be taken for either Social Science or Arts credit.)

### 53-120. Gal Pals: Women and Friendship

This course examines a diverse range of women's friendships. Through discussion, reading, and films we will explore topics such as the meaning of friendship for women, how women's friendships have been portrayed in literature and film, the link between friendship and social activism for women, and the political meanings of women's friendship in cultures resistant to woman-centered consciousness. (Can be taken for Social Science credit.)

### 53-130. Imagining Women

This course examines a broad cross-section of historical and contemporary representations of women in myth, popular culture, and various media -- literature, film and television, the fine arts, journalism, and advertising. The significance of such powerful stereotypes as the Femme Fatale, the fallen woman, witch, goddess, vamp, and "angel in the house" will be explored. The politics and aesthetics/poetics involved in the construction of sexual/gender identity and difference will constitute a primary focus of discussion. The student will be introduced to feminist and gender-related theories of representation. (Can be taken for either Social Science or Arts credit.)

### 53-200. History of Women's Movements in North America

An exploration of the collective action of women in the past and present in North America. Areas of study may include women's involvement with the temperance, civil rights, suffrage, trade union, environmental, reproductive rights, and women's liberation movements. (Also offered as History 43-251.)

### 53-201. Women, Sexuality and Social Justice

This course examines the personal and cultural meanings of women's sexual identities in Canada today. Students consider how these identities are created and experienced in conjunction with other identities such as race/ethnicity, social class, and (dis)ability and how women challenge the personal, social, political, and economic inequities that continue to be based on these identities. Students are encouraged to analyze how their beliefs and behaviours are shaped by heterosexual privilege. (Also offered as Sociology 48-251.) (Prerequisite: 53-100 or consent of the instructor.)

### 53-202. Women, Race, and Social Justice

This course examines the personal and cultural meanings of women's racial and ethnic identities in Canada today. Students consider how these identities are created and experienced in conjunction with other identities such as sexuality, social class, and (dis)ability and how women challenge the personal, social, political, and economic inequities that continue to be based on these identities. Students are encouraged to analyze how their beliefs and behaviours are shaped by white privilege. (Prerequisite: 53-100 or permission of the instructor.)

### 53-220. Women's Bodies, Women's Health

This course examines and critiques commonly cited biological evidence in support of sex differences and male superiority, including research on anatomy, genetics, hormones, and differential brain functioning. Students explore the social, cultural, and political meanings of the female body and consider how these understandings influence medical and non-medical definitions of "health" for women. Students investigate how sexism, classism, racism, ageism, and homophobia shape how individuals think about and value different female bodies. (Prerequisite: One Women's Studies (53-) course.) (Can be taken for either Science or Social Science credit.)

### 53-230. Gender and Moral Choice

This course examines how gender affects personal and public definitions of moral problems and their resolution. Issues such as reproductive choices, childrearing, poverty, and war will be used to explore these ideas. (Can be taken for either Social Science or Arts credit.) (Prerequisite: Semester 3 or above standing and one Women's Studies course or consent of the instructor.)

### 53-240. Helpmates, Harlots, Deliverers, and Disciples: Women and the Bible

A feminist-critical examination of selected passages from the Hebrew bible (Tanak/Old Testament), the Apocrypha, and/or the New Testament, focusing on gender ideology and the depiction of the legal, social, and religious status of women in ancient Israel, early Judaism, and/or early Christianity. The course will also explore the ways in which biblical gender ideology continues to shape attitudes toward women in contemporary societies. (Can be taken for either Social Science or Arts credit.)

### 53-250. Women, Movement, and Performance

This course explores how women come to know themselves and others through their bodies, gender and racial stereotypes, body image and body language, women's use of space, the gendered construction of sport, and movement as a cultural message. (Prerequisite: one Women's Studies course.)

**53-260. Women and Globalization**

This course introduces students to gender-sensitive analysis of the role of women in the global economy. Course materials cover the place of women in the international division of labour, the role of women in export-oriented industries in the "Third World," and women as "homeworkers" in the First and Third World. Students will utilize relevant empirical material to develop critical thinking and an understanding of gender inequalities in the "development process." (Prerequisites: at least Semester 3 standing.)

**53-270. Nags, Housewives, and Sluts: Language and Women's Place**

This course makes visible the sexism hidden in the English language. Students begin by examining the relationship between language and thought. Other topics include gender differences in the use of language, the politics of naming, gender and metaphor, and humour. Students are encouraged to develop their understanding of course principles using practical exercises. (Prerequisite: Semester 3 standing or above standing and one Women's Studies course or consent of the instructor.) (Can be taken for either Social Science or Arts credit.)

**53-299. Special Topics in Women's Studies**

Special Topics courses will be offered occasionally to meet a demonstrated academic need that cannot be satisfied by regular course offerings. (Prerequisites: will vary depending on the subject.)

**53-300. Women, Knowledge, and Reality**

An exploration of feminist theories about knowledge and reality that inform and are informed by scholarship in Women's Studies. Students examine how gender might affect identity, reasoning, objectivity, and evidence, and in turn, how such variations might affect feminist political practices. (Prerequisites: Two courses at the 200-level or above from Women's Studies and/or Philosophy.) (Also offered as Philosophy 34-359.)

**53-301. Frameworks for Feminist Research**

An exploration of the diverse approaches to feminist research in a variety of fields. Students will examine the core questions and approaches that various disciplines bring to the study of women. (Prerequisites: Two courses at the 200-level or above from Women's Studies or consent of the instructor.)

**53-310. Women and the Law**

This course examines the relationship between gender inequality and the legal system. Topics include abortion, marriage, divorce, custody, equal pay, sexual harassment, rape, pornography, and prostitution. Students are introduced to basic legal research tools, such as statutes, regulations, cases, and legal literature. (Prerequisites: two Women's Studies courses.)

**53-320. Women, Power, and Environments**

This course focuses on environmental issues as they affect women across cultures. It provides a feminist critical analysis of the power relations in modern societies that cause environmental degradation and examines the theories, policies, and institutions that contribute to unsustainable practices. Emphasis is placed on the women-nature debate within various environmental social movements and the historical role women have played as activists. (Also offered as Planning 50-320.) (Prerequisite: Semester 3 or above standing.)

**53-330. Victims, Survivors, and Warriors: Violence in the Lives of Women and Girls**

An interdisciplinary exploration of violence against women and girls locally and globally. The course will explore the power of language to shape our understanding of issues, the many forms of subtle and explicit violence, the impact of violence on the individual and the status of women, and the creative resistance of women and girls, among other issues. (Prerequisites: two Women's Studies courses and at least semester 4 standing.)

**53-340. Women, War and Peace**

This course examines war and peace through women's eyes, including home fronts during wartime in both combat and non-combat zones, women in combat, the effects of various military tactics and strategies on women, war crimes against women, women refugees, women's activism on war-related issues, peace activism, and media coverage of women and war as well as women and peace. (Prerequisite: one 200-level Women's Studies course or 45-260 or consent of the instructor.)

**53-347. Abuse in the Family**

Examines aspects of abuse and violence in the family. The primary focus is on generalist social work family intervention in cases of abuse or violence, and on societal provision for sheltered separation and family reconstitution or dissolution. (Open to senior students. Social Work majors or combined Social Work/Women's Studies majors will be given registration priority.) (Also offered as 47-347.)

**53-350. Special Topics**

The content will vary to reflect student need and faculty expertise and may be offered as a cross-listed course with other programs. (Prerequisite: at least semester 4 standing.) (May be repeated for credit if content varies.)

**53-360. Women at Work**

This course examines women's work experiences in the workplace and in the household from a critical perspective. Topics include the division of labour by sex, the value of women's labour, sexual harassment, and women's union participation. (Prerequisite: 71-140 or 53-100 and semester 4 or above standing.) (Also offered as 71-347.)

**53-370. Mothering and Motherhood**

This course examines Western society's ideas of motherhood, in particular, the social construction of "good" and "bad" mothers, from an interdisciplinary perspective. Differences associated with class, race, ethnicity, and sexual preference will be considered. (Prerequisite: Semester 4 or above standing and two Women's Studies courses.) (Also offered as Social Work 47-370.)

**53-380. Feminist Literary Dimensions of the Hebrew Bible**

A feminist exploration of the Hebrew Bible as a literary text. Using the work of major feminist biblical scholars, the course will explore rhetorical strategies, characterization, narrative voice, themes, motifs and other literary dimensions of the Hebrew Bible to see how they contribute to the production of gender ideologies in the text. Feminist strategies for rereading, exposing and deconstructing male-authored images of women and femaleness in biblical texts will be examined. (Prerequisite: 53-240 or consent of the instructor.) (Can be taken for either Social Science or Arts credit.)

**53-390. Third-Wave Feminisms: Generation X, Feminism, and the 21st Century**

This course investigates the meaning and importance of third-wave feminisms through literature, zines, websites, and "manifestos" written by, for, and about young women. Specific topics of interest are young women's activism with respect to the environment, globalization, and the media, as well as their efforts to confront racism, sexism, and classism. (Prerequisites: two Women's Studies courses.)

**53-400. Seminar**

The course involves the study of a problem or theory related to women or gender. Students will select individual topics of interest and will be supervised and assisted by a faculty member.

**53-410. Women in Protest**

This course examines women at the forefront of protest in historical and contemporary contexts. It analyzes gendered constructs of protest and social and political change. Students will study the role of women in protest movements such as suffrage, reproductive rights, anti-racism, labour rights, environmental justice, anti-globalization, and nationalist and religious movements. Case studies are explored in detail, with particular emphasis on primary-source material from women activists themselves. These studies are complemented by an examination of feminist, social movement, and protest theories. (Prerequisite: 53-200 and one 300-level Women's Studies course or consent of the instructor.)

**53-463. The History of Sexuality in North America**

The cultural ideology, social regulation, and experience of reproduction and sexual relations, with an emphasis on women, from 1600 to the present. Topics include interracial relationships, abortion and contraception, sex and social class, sex and slavery, same-sex relationships, and modern sexuality and feminism. (Also offered as History 43-463.) (Prerequisite: one of 43-249, 43-250, or 43-251/53-200. Restricted to History and Women's Studies majors and other students with at least semester 5 standing and permission of the instructor.)

**53-470. Counselling Girls and Women**

Examines the principles, processes, and techniques utilized in counselling girls and women as a component of generalist social work practice. Structural factors in the social context which affect the experience of girls and women of all ages as well as aspects of their development are considered in the assessment of obstacles that may result in the need for counselling from a generalist social worker. Individual, group, and family counselling that empowers girls and women to overcome obstacles and fulfill their potential in the context of social and cultural diversity is emphasized. (Prerequisites: 47-304, 47-336, 47-337.) (Also offered as 47-470.)

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## BIOLOGICAL SCIENCES

(Ext. 2697)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Benedict, Winfred G.; C.D., M.Phil. (Leeds), B.A. (Windsor), B.S.A., Ph.D. (Toronto), F.L.S.-1957.

Pillay, Dathathry T.N.; B.Sc. (Osmania), M.S., Ph.D. (Cornell)-1963.

Warner, Alden H.; B.A. (Maine), M.A., Ph.D. (Southern Illinois)-1965.

Cotter, David A.; B.S. (Penn State), M.S., Ph.D. (Wisconsin)-1975.

Sale, Peter F.; B.Sc., M.A. (Toronto), Ph.D. (Hawaii)-1994. (retired University Professor)

#### Professors

Wahlsten, Douglas L., B.Sc. (Alma College, Michigan), Ph.D. (Irvine, California)-1969.

Fackrell, Hugh B.; B.Sc., M.Sc. (Western Ontario), Ph.D. (Manitoba)-1973.

Crosby, William L.; B.Sc. (British Columbia), Ph.D. (Heriot-Watt, Scotland)-1978. (Head of the Department)

Ciborowski, Jan J. H.; B.Sc., M.Sc.(Toronto), Ph.D. (Alberta)-1984.

Haffner, G. Douglas; B.Sc. (Queen's), Ph.D. (London)-1986.

Corkum, Lynda D.; B.A., M.A. (Drake), Ph.D. (Toronto)-1987.

Zielinski, Barbara; B.Sc., M.Sc. (Waterloo), Ph.D. (Manitoba)-1990.

MacIsaac, Hugh J.; B.Sc. (Windsor), M.Sc. (Toronto), Ph.D. (Dartmouth)-1992.

#### Associate Professors

Taylor, Paul; B.Sc. (George Williams, Chicago), Ph.D. (Toledo)-1975.

Weis, Ivan Michael; B.Sc. (Syracuse), M.Sc., Ph.D. (Iowa)-1976.

Heath, Daniel D.; B.Sc., M.Sc. (McGill), Ph.D (British Columbia)-1993.

Crawford, Michael J.; B.Sc., M.Sc., Ph.D. (Toronto)-1997.

Hubberstey, Andrew V.; B.Sc. (Waterloo), M.Sc., Ph.D. (Guelph)-1997.

#### Assistant Professors

Hudson, John W, B.Sc., M.Sc. (McMaster), Ph.D. (York)- 1993.

Higgs, Dennis; B.Sc. (Michigan), M.Sc. (Illinois), Ph.D. (Texas)-1996.

Porter, Lisa A.; B.Sc., Ph.D. (McMaster)-2001.

VanLaerhoven, Sherah L.; B.Sc., M.Sc. (Simon Fraser), Ph.D. (Arkansas)-2001.

Drouillard, Ken G.; B.Sc.(Windsor), M.Sc. (Manitoba), Ph.D. (Trent)-2002.

Mennill, Daniel J.; B.Art.Sc. (McMaster), Ph.D. (Queens)-2003.

Swan, Andrew; B.Sc. (Alberta), Ph.D (McGill)-2007

#### Adjunct Professors

Dufresne, Michael J.P.; B.Sc. (York), Ph.D. (Alberta)-1976.

Henderson, Bryan; B.Sc. (British Columbia), M.Sc. (British Columbia), Ph.D. (Aberdeen, Scotland)-2002.

#### Adjunct Assistant Professor

Johnson, Timothy B.; B.Sc. (Guelph), M.Sc. (York), Ph.D. (Wisconsin)-1998.

Therriault, Thomas W.; B.Sc. (Wilfred - Laurier), M.Sc. (Memorial), Ph.D. (McMaster)-2000.

Mandrak, Nicholas; B.Sc., M.Sc., Ph.D. (Toronto)-2003.



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## ODETTE SCHOOL OF BUSINESS

### Dean

H. Allan Conway; B.B.A. (St. Francis Xavier), M.B.A. (Western Ontario), D.B.A. (Harvard)-2005.

### Associate Deans

Diana Kao; LL.B. (National Cheng-Chi), Dip. in Acc. (Wilfred Laurier), M.B.A. (McMaster), Ph.D. (Western Ontario)-1990. (Acting Associate Dean, Operations)

Singh, Jang - B.A. (Toronto), M.A. (College of St.Thomas), M.B.A. (Windsor), M.A., Ph.D. (Toronto) -1986. (Associate Dean, Strategic Initiatives)

### OFFICERS OF INSTRUCTION

### Professors Emeriti

Brownlie, J. Maxwell; B.A. (Western Ontario), M.B.A. (Michigan) - 1958.

Wilson, David – B.Comm. (Assumption), M.B.A. (Michigan), C.A. – 1966.

Haque, Mohd. Razaul; B.Sc., m.Sc. (Atigarh Muslim U.), M.Sc. (Southern Illinois), Ph.D. (Wayne State) - 1967

Morgan, Alfie; B.Comm. (Cairo), M.B.A. (Boston), Ph.D. (American U.)-1969.

Rosenbaum, Edward; B.A. (Wayne State), M.S., Ph.D. (Wisconsin), J.D. (Detroit College of Law), C.F.A.-1969.

Lam, Wai P.; B.Comm. (St. Mary's), M.B.A., Ph.D. (Michigan State), F.C.A.-1973.

Crocker, Olga Lillian; B.Ed., M.B.A. (Alberta), Ph.D. (U. of Washington)-1976.

Brill, Percy; B.Sc. (Carleton), M.A. (Columbia), Ph.D. (Toronto)-1983.

Bart, John T.: B. Eng. (The Royal Military College of Canada), M.B.A., Ph.D. (Western Ontario) - 1984

Withane, Sirinimal - B.Sc. (Jayawardenpura), M.Sc. (Moratuwa University), M.A. (Carleton), M.A., Ph.D. (Toronto) - 1986.

Armstrong-Stassen, Marjorie; B.S., M.L.H.R., Ph.D. (Ohio State)-1989.

### Professors

Faria, Anthony John; B.S., M.B.A. (Wayne State), Ph.D. (Michigan State)-1975.

Andiappan, Palaniappan; B.A., M.A., M.Litt. (Madras), M.S. (Massachusetts), Ph.D. (Iowa)-1980.

Dickinson, John R.; B.S.B.A., M.B.A., D.B.A. (Indiana)-1980.

Thacker, James W.; B.A. (Winnipeg), M.A., Ph.D. (Wayne State)-1982.

Aneja, Yash Paul; M.S., B.S. (Indian Statistical Inst.), Ph.D. (Johns Hopkins)-1983.

Chandra, Ramesh; B.S. (Bihar Institute of Tech.), M.S. (Mississippi State), Ph.D. (Union College), Ph.D. (Oklahoma)-1983.

Kantor, Jeffrey; B. Bus. Sc., B. Comm. (Hons.) (Capetown), C.P.A., C.A. (Ontario), Ph.D. (Bradford, England)-1983.

Templer, Andrew; B.A. (Hons.), (Witwatersrand), M.A. (South Africa), M.Sc. (London), Ph.D. (Witwatersrand)-1983.

Fields, Mitchell; B.A. (Maryland), M.A., Ph.D. (Wayne State)-1985.

Okechuku, Chike; B.A.Sc., M.A.Sc. (Toronto), M.B.A., Ph.D. (York)-1986. (Director, Centre for Executive Education)

Singh, Jang; B.A. (Toronto), M.A. (College of St. Thomas), M.B.A. (Windsor), M.A., Ph.D. (Toronto)-1986.

Ursel, Nancy D.; B.Comm. (McGill), M.B.A. Ph.D. (Concordia)-1989.

Fleisher, Craig; B.S.B.A. (University of Florida), M.S.A. (Lincoln Graduate Centre), M.B.A. (Vanderbilt University), Ph.D. (University of Pittsburgh)-1991. (University of Windsor Research Leadership Chair)

Hussey, Roger D.; M.Sc., Ph.D. (Bath)-2000.

### Associate Professors

Musson, Harold Douglas; B.Comm. (Windsor), M.B.A. (Michigan State)-1968.  
Freeman, Jack L.; B.S. (Michigan State), M.B.A. (Wayne State), Ph.D. (Michigan State)-1972.  
Cattaneo, R. Julian; Licenciado (Buenos Aires), Ph.D. (Michigan)-1980. (Director of Graduate Studies)  
Gunay, Erdal; B.S. (Middle East Technical University), M.B.A., Ph.D. (Syracuse)-1983.  
Rieger, Fritz; B.S. (Manhattan), M.B.A. (Columbia), Ph.D. (McGill)-1983.  
Forrest, Anne; B.Sc., M.I.R. (Toronto), Ph.D. (Warwick)-1985. (Program Chair, Women's Studies)  
Chaouch, A.; B.Sc. (Algiers), M.Sc. (Stanford), Ph.D. (Waterloo)-1986.  
Reavley, Martha; B.Comm., M.B.A. (Windsor), Ph.D. (Wayne State)-1986.  
Wellington, William; B.Sc. (Western Ontario), M.B.A. (Windsor), Ph.D. (Michigan State)-1986.  
Lan, George; B.S. (Beloit College), M.A. (Smith College), M.B.A. (Tulane University), Ph.D. (Queen's)-1988.  
Assaf, Ata; B.A. (Lebanese U.), D.H.S., M.A. (Western Ontario), Ph.D. (McGill) - 1999.  
Ong, Audra; B.Sc. (Queen's, Belfast), M.B.A. (Wales), Ph.D. (West of England, Bristol) - 2000.  
Pathak, Jagdish; B.Comm., M.Comm. (University of Rajasthan), Ph.D. (University of Goa) - 1995.  
Sinha, Rajeeva; B.A. (Patna), M.A. (Jaawalharlal Nehru), M.Phil. (Delhi), Ph.D. (Warwick) - 2000.

#### **Assistant Professors**

Miller, Peter; B.Eng. (McGill), M.B.A. (Toronto)-1977.  
Al-Hayale, Talal H. S.; B.Sc. (University of Mosul), M.A., Ph.D. (University of Wales)-1990.  
Kao, Diana; LL.B., (National Cheng-Chi), Dip. in Acc., (Wilfrid Laurier), M.B.A. (McMaster), Ph.D. (Western Ontario)-1990. (Acting Associate Dean, Operations)  
Baki, Mohammed Fazle; B.Sc. (Bangladesh Inst. of Technology), M.B.A. (University of Dhaka), M.B.A. (Univ. of New Brunswick), Ph.D. (University of Waterloo)-1999.  
Higginson, James; B.Comm. (McMaster), M.A.Sc., Ph.D. (Waterloo), CITT-2001.  
Hutchinson, David; B.Sc. (Western Ontario), M.B.A. (Wilfrid Laurier)-2001.  
Kerr, Gerard; B.A. (Western Ontario), B.A., B.Admin. (Brock), M.B.A. (McMaster), Ph.D. (York)-2001.  
Cheung, Keith; B.A., M.A., Ph.D. (York)-2003.  
Moro, Francisco; B.A. (Pontifical Catholic), M.Eng., Dr.Eng. (Santa Catarina), Ph.D. (Wisconsin)-2003.  
Lee, Jonathan; B.Comm., M.B.A. (Windsor), Ph.D. (South Carolina)-2003.  
An, Yunbi; B.S. (Shandong, China), M.A. (Central University, Beijing), M.A. Economics (Windsor), Ph.D. (Queen's)-2004.  
Li, Kevin W; B.Sc., M.A.Sc. (Xiamen University, China), Ph.D. (Waterloo)-2004.  
Schlosser, Francine; B.B.A. (Wilfrid Laurier), M.B.A. (Windsor), Ph.D. (Waterloo)-2004.  
Bussiere, David; B.B.A. (Wilfrid Laurier), M.B.A. (Wilfrid Laurier), Ph.D. (University of the West of England/Bristol); 2005.  
Gowing, Maureen; B.A. (Carleton), M.B.A. (Toronto), Ph.D. (Queen's)-2005.  
Ma, Zhenzhong; B.Com., M.A. (Renmin U Beijing), Ph.D. (McGill)-2005  
Selvarajah, Esaignani; B.S. (University of Peradeniya), M.A.S. (Toronto), Ph.D. (McMaster)-2006.  
Elsaid, Eahab; B.Sc. (Cairo), M.B.A. (S. Illinois), Ph.D. (S.I.U.)-2007.

#### **Lecturers (Tenure Track)**

Stomp, Josephine - B.A. (University of Toronto), M.B.A. (York)-2005.  
Meldrum, Mark; B.A. (Brock), B.C. (Windsor), B.C.Sc. (Windsor)-2006.

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## CHEMISTRY AND BIOCHEMISTRY

(Ext. 3521)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Thibert, Roger J.; B.A. (Western Ontario), M.S. (Detroit), Ph.D. (Wayne State), D.Sc. (Windsor), F.C.I.C.-1953.

McIntosh, John M.; B.Sc. (Queen's), Ph.D. (M.I.T.), F.C.I.C.-1968.

Drake, John E.; B.Sc., Ph.D., D.Sc. (Southampton), F.C.I.C.-1969.

McGarvey, Bruce R.; B.A. (Carleton College), M.A., Ph.D. (Illinois), F.C.I.C.-1972.

#### University Professors

Stephan, Douglas W.; B.Sc. (McMaster), Ph.D. (Western Ontario) F.C.I.C.-1982.

Aroca, Ricardo; B.Sc. (Chile), Ph.D. (Moscow State), D.Sc. (Leningrad)-1985.

Loeb, Stephen J.; B.Sc., Ph.D. (Western Ontario), F.C.I.C.-1990.

#### Professors

Taylor, Keith E.; B.Sc., Ph.D. (Toronto)-1976.

Mutus, Bulent; B.Sc., M.Sc. (Waterloo), Ph.D. (Manitoba)-1982.

#### Associate Professors

Lee, Lana; A.B. (Mount Holyoke), Ph.D. (Alberta)-1986.

Green, James R.; B.Sc. (Windsor), Ph.D. (Waterloo)-1989.

Dutton, Philip J.; B.Sc., Ph.D. (Victoria)-1991.

Antonelli, David M.; B.Sc., Ph.D. (Alberta)-1997.

Carmichael, Tricia B.; B.Sc., Ph.D. (Windsor)-2005.

#### Assistant Professors

Ananvoranich, Sirinart; B.Sc., M.Sc. (Chulalongkorn), Ph.D. (Concordia)-2000.

Pandey, Siyaram; B.Sc., M.Sc. (Banaras), Ph.D. (J.N.U. New Delhi)-2000.

Schurko, Robert W.; B.Sc., M.Sc. (Manitoba), Ph.D. (Dalhousie)-2000.

Eichhorn, S. Holger; Dipl. Chem., Ph.D. (Bremen)-2001.

Gauld, James W.; B.Sc. (Queensland), B.Sc.(Hon) (Northern Territory), Ph.D. (Australian National)-2001.

Macdonald, Charles L.B.; B.Sc., Ph.D. (Dalhousie)-2001.

Johnson Samuel A.; B.Sc. (McMaster), Ph.D. (British Columbia)-2002.

Wang, Jichang; B.Sc. (Tsinghua), Ph.D. (Copenhagen)-2002.

Vacratisis, Panayiotis E.; B.S. (Eastern Michigan), Ph.D. (Michigan State)-2003.

Thadani, Avinash N.; B.Sc. (Toronto-Mississauga), Ph.D. (Toronto)-2004.

#### Adjunct Professors

Adeli, Khosrow; B.Sc. (Tehran), M.Sc., Ph.D. (Ottawa), Dipl. Clin. Chem. (Toronto)-1988.

Cheung, Raphael M.C.; M.D. (Toronto), F.R.C.P.(C); Medical Director, Lipid Clinic, Windsor Western Hospital-1988.

Nazri, Gholam-Abbas; B.S., M.S. (Tehran), Ph.D. (Case Western Reserve), Scientist, General Motors Research, Warren-

1991.

Artiss, Joseph D.; B.Sc., M.Sc., Ph.D. (Windsor)-1993.

Hutnik, Cindy; B.Sc. (Windsor), Ph.D., M.D. (Ottawa), F.R.C.S.C.-1999.

Macri, Joseph; B.A., B.Sc., Ph.D., Dipl. Clin. Chem.(Windsor)-2001.

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## COMMUNICATION STUDIES

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Cunningham, Stanley B.; B.A. (Manitoba), M.S.L. (Pontif. Inst. of Mediaeval Studies), M.A., Ph.D. (Toronto), Honoris Causa: LL.D. (Assumption)-1961.

Romanow, Walter I.; B.A. (Saskatchewan), M.A. (Windsor), Ph.D. (Wayne State)-1965.

Selby, Stuart A.; B.A. (Hamilton College, N.Y.), M.A., Ed.D. (Columbia)-1970.

Edmunds, Hugh H.; B.A. (Saskatchewan), M.Ed. (Wayne State)-1971.

Linton, James M.; B.A. (York), M.A. (Pennsylvania)-1972.

Cuthbert, Marlene L.; B.A. (Queen's), M.A. (Columbia), Ph.D. (Syracuse), Dip. Communication Policy and Planning for Development (The Hague)-1986.

#### Professors

Winter, James P.; B.J., M.J. (Carleton), Ph.D. (Syracuse)-1981.

Wittebols, James; B.A. M.A (Washington State) Ph.D. (Washington State) -2004.

#### Associate Professors

Goldman, Irvin; B.A. (Winnipeg), M.S. (Purdue), Ph.D. (Iowa)-1981. (Head of the Department)

Lewis, Richard F.; B.A. (Loyola College), M.S., M.S., Ph.D. (Syracuse)-1983.

Hildebrandt, Kai; M.A. (Hamburg), M.A., Ph.D. (Michigan)-1985. (Associate Dean, Faculty of Arts and Social Sciences)

Virdi, Jyotika; B.A. (St. Stephen), M.A. Social Work (Delhi), M.A. (Cornell), Ph.D. (Oregon)-1998.

Scatamburlo-D'Annibale, V.; B.A., M.A. (Windsor), Ph.D. (York)-2000.

#### Assistant Professors

Talreja, Sanjay; B.Law (Bombay), Dip.-Audio-Visual Production (Xavier Inst. of Communications), Certi.-Film Appreciation (Film & TV Inst. of India), M.F.A. (Ohio)-2002.

Bae, Sung Min; B.F.A. (Kjung Pook National U.), Dip. Creation of Cinematography (Ecole Supérieur d'Etudes Cinématographiques, Paris), M.F.A. (Concordia)-2003.

Boin, Paul; B.A. (Hartwick College), M.S. (Springfield College), Ed.D. (Toronto)-2005.

Hartley, M. Heather; B.S. (Allegheny College), M.F.A. Film (Ohio)-2005.

Best, Beverley; B.A. (British Columbia), M.A., Ph.D. (Simon Fraser)-2006.

Gabriele, Sandra; B.A. (Wilfrid Laurier), M.A. (Mount St. Vincent), Ph.D. (Concordia)-2006.

#### Adjunct Assistant Professor

Bryant, Susan E.; B.A., M.E.S. (York), Ph.D. (Simon Fraser)-2001.

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## COMPUTER SCIENCE

*(Ext. 2990)*

For further information, see our World Wide Web page: <http://www.cs.uwindsor.ca/units/cs/welcome.html>

### OFFICERS OF INSTRUCTION

#### Professors

Kent, Robert D., B.Sc. (Hons.) (U.B.C.), M.Sc., Ph.D. (Windsor)-1982.

Bandyopadhyay, Subir; B.Sc., B.Tech., M.Tech. (Calcutta), M.Math. (Waterloo), Ph.D. (Calcutta)-1984.

Frost, Richard A.; B.Sc. (Hons.) (London), M.Sc. (Aberdeen), Ph.D. (Strathclyde)-1987.

Mukhopadhyay, Asish; B.Sc., M.Sc. (Calcutta), Ph.D. (Bangalore)-1999.

Goodwin, Scott; B.Math (Hons) (Waterloo), M.Math (Waterloo), Ph.D. (Alberta)-2001.

#### Associate Professors

Tsin, Yung H.; B.Sc. (Nanyang), M.Sc. (Calgary), Ph.D. (Alberta)-1985.

Morrissey, Joan; B.Sc.(Hons.), Ph.D. (Dublin)-1989.

Jaekel, Arunita; B.Engg. (Calcutta), M.A.Sc., Ph.D. (Windsor)-1995.

Ezeife, Christie I.; B.Sc. (Hons.) (Ife), M.Sc. (SFU), Ph.D. (Manitoba)-1996.

Chen, Xiao Jun; B.A. (Beijing), Ph.D. (Pisa)-1997.

Ahmad, Imran; B.Sc., M.Sc. (Karachi), M.Sc. (Central Michigan), Ph.D. (Wayne State)-1998.

Boufama, Boubakeur; Engg. (Constantine), M.Sc. (France), Ph.D. (Grenoble)-1999.

Aggarwal, Akshai; B.Sc. (Punjab), M.E., Ph.D. (Baroda)-2000.

El-Marakby, Randa; B.Sc. (American University, Cairo), M.Sc. (North Texas), Ph.D. (Lancaster)-2000.

Ngom, Alioune; B.Sc. (Quebec), M.Sc., Ph.D. (Ottawa)-2000.

Sodan, Angela C.; B.Sc., M.Sc., Ph.D. (Berlin)-2000.

Tawfik, Ahmed; B.Sc. (Cairo), M.Sc. (Nebraska), Ph.D. (Saskatchewan)-2000.

Yuan, Xiaobu; B.Sc. (China), M.Sc. (Sinica), Ph.D. (Alberta)-2000.

Lu, Jianguo; B.Sc., M.Sc., Ph.D. (Nanjing)-2002.

Gras, Robin; B.Sc., M.Sc., Ph.D. (Rennes)-2006.

#### Assistant Professors

Tjandra, Indra Adiono; Dipl. Inform. (Munich), Dr. rer. nat. (Karlsruhe)-1997.

Wu, Dan; B.Sc. (Windsor), M.Sc. (Peking), Ph.D. (Regina)-2003.

Kobti, Ziad; B.Sc, M.Sc. (Windsor), Ph.D. (Wayne State)-2005.

#### Adjunct Professor

Kabanza Frodulald; Lic.B.Bc. (Liege), Ph.D. (Belgium)-2002.

Wang, Shengrui; B.Math (Hebei), M.Appl.Math (J. Fourier), Ph.D. (INPG)-2002.

Wong, S.K. Michael; B.Sc. (Hong Kong), M.A., Ph.D. (Toronto)-2004.

#### Cross Appointments

Aneja, Yash Paul; B.Sc., M.Sc. (Indian Statistical Inst.), Ph.D. (John Hopkins)-1983.

Caron, Richard J.; B.M., M.M., Ph.D. (Waterloo)-1983. (Dean of the Faculty of Science)

Ali, Adnan; B.Sc. (Punjab), M.Sc. (Quaid-I-Azam), M.Sc., Ph.D. (Waterloo)-2001.

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## DRAMATIC ART

(Ext. 2804)

### OFFICERS OF INSTRUCTION

#### Professors Emerita

Mady-Kelly, Diana; B.A. (Assumption), M.A. (New York University)-1970.

#### Professors

Pinnell, William H.; B.A. (Glassboro, N.J.), M.A. (Wayne State)-1972.

Warren, Bernie;-1992.

#### Associate Professor

Walsh, Lionel; B.F.A. (Windsor), M.F.A. (Virginia Commonwealth)-1997. (Director of School)

#### Assistant Professors

Keating, Michael; B.A. (Acadia), N.T.S.C., M.F.A. (Boston)-1997.

Pugliese, Tina; B.A., M.Ed. (Windsor), Ed.D. (Wayne State)-1997.

Taylor, Brian; B.A. (Windsor), M.F.A. (Alberta)-2000.

Rintoul, Brian;-2001.

Campbell, Gail; B.A. (Oregon), M.F.A. (North Carolina)-2003.

Myers, Tedfred; B.A. (Florida Southern College), M.F.A. (Wayne State)-2003.

Abbitt, Erica Stevens; B.A. (McGill), M.A. (California State), Ph.D. (California at Los Angeles)-2004.

Norris, Sonia; B.A. (Toronto), M.F.A. (York)-2004.

Lori Riley, Gina ; B.Sc. (Waterloo), B.Ed. (Windsor), M.F.A. (Virginia Commonwealth)-2004.

Van Eek, Esther; B.F.A.(Calvin College), M.F.A. (George Washington Univ) - 2007.



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## EARTH AND ENVIRONMENTAL SCIENCES

(Ext. 2486)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Sanderson, Marie E.; B.A. (Toronto), M.A. (Maryland), Ph.D. (Michigan)-1965.

Smith, Terence E.; B.Sc., Ph.D. (Wales)-1969.

Hudec, Peter P.; B.Sc. (Western Ontario), M.S., Ph.D. (Rensselaer Polytech. Inst.)-1970.

Symons, David T.A.; B.A.Sc. (Toronto), A.M. (Harvard), Ph.D. (Toronto), P. Eng.-1970.

Turek, Andrew; B.Sc. (Edinburgh), M.Sc. (Alberta), Ph.D. (Australian National U.), P. Eng.—1971.

#### University Professor

Trenhaile, Alan S.; B.Sc., Ph.D., DSc. (Wales)-1969.

#### Professors

Simpson, Frank; B.Sc. (Edinburgh), Dr.Nat.Sc. (Jagiellonian U., Krakow), P.Eng., P.Geo.-1974. (Coordinator, IDRET, Windsor International)

Lakhan, V. Chris; B.A. (Guyana), M.A. (Windsor), Ph.D. (Toronto), F.R.G.S. (U.K.), C.E.S.(U.S.)-1984.

Samson, Iain M.; B.Sc., Ph.D. (Strathclyde)-1986.

Al-Aasm, Ihsan S.; B.Sc., M.Sc. (Baghdad), Ph.D. (Ottawa)-1989. (Head of the Department)

Fryer, Brian J.; B.Sc. (McMaster), Ph.D., F.R.S.C. (Massachusetts Inst. Technology)-1993.

#### Associate Professors

Rodrigues, Cyril G. I.; B.Sc. (British Columbia), M.Sc., Ph.D. (Carleton)-1979.

Fisk, Aaron; B.Sc., M.Sc. (Windsor), Ph.D. (Manitoba)-1998.

Cioppa, Maria T.; B.Sc. (Carleton), M.Sc. (Victoria), Ph.D. (Lehigh)-2001.

Yang, Jianwen; B.Eng. (Guilin Institute of Geology); M.Eng. (Central-South University of Technology, China); M.Sc. (Toronto); Ph.D. (Toronto)-2002.

#### Assistant Professors

Graniero, Phil A.; B.E.S., M.E.S. (Waterloo), Ph.D. (Toronto)-2000.

Polat, Ali; B.Sc. (Technical University of Istanbul), M.Sc. (Houston). Ph.D. (Saskatchewan)-2002.

Weisener, Christopher; B.Sc. (Western Ontario), Ph.D. (South Australia)-2005.

Gagnon, Joel; B.Sc., M.Sc. (Windsor); Ph.D. (McGill)-2006.

#### Adjunct Professors

LaValle, Placido D.; B.A. (Columbia), M.A. (Southern Illinois), Ph.D. (State University of Iowa)-1969.

Greenough, John D.; B.Sc. (Acadia), M.Sc. (Carleton), Ph.D. (Memorial)-1999.

Fowle, David A.; B.Sc. (Western Ontario), M.Sc., Ph.D. (Notre Dame)-2001.

Ames, Doreen E.; B.Sc. (Waterloo), M.Sc., Ph.D. (Carleton)-2005

Barrie, C. Tucker; B.Sc. (Michigan), M.A. (Texas), Ph.D. (Toronto)-2005.

Coniglio, Mario; B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Memorial)-2005.

Kalin, Margarete M.; B.Sc., M.Sc. (Toronto)-2007.

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## ECONOMICS

(Ext. 2367)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Kovacs, Aranka Eve; B.A. (McMaster), M.A. (Toronto), Ph.D. (Bryn Mawr) - 1961.

Phillips, William Gregory; B.A., M.A., Ph.D. (Toronto)-1950.

Strick, John Charles; B.A. (Manitoba), M.A. (Assumption), Ph.D. (Alberta)-1965.

Fortune, J. Neill; B.Sc.A. (Toronto), M.A. (Western Ontario), Ph.D. (Indiana)-1969.

#### Professors

Meng, Ronald; B.Sc. (Trent), M.A., Ph.D. (Carleton)-1987.

Suh, Sang-Chul; B.A. (Korea), M.A. (Taiwan), Ph.D. (Rochester)-1994.

Townley, Peter G.C.; B.Sc., B.A., M.A. (Guelph), Ph.D. (Queen's)-1986.

#### Associate Professors

Charette, Michael F.; B.A., M.A. (Windsor), Ph.D. (Western Ontario)-1976.

Bajic, Vladimir; B.A., M.A. (Belgrade), M.A. (Williams College), Ph.D. (Toronto)-1984.

Li, Dingding; B.Sc. (Hebei Teachers U.), M.A., Ph.D. (Guelph)-2002.

Wang, Yuntong; B.A. (Hebei). M.A. (Huazhong), Ph.D. Mathematics (Nankai U.), Ph.D. Economics (Montreal)-2003.

#### Assistant Professor

Arbex, Marcelo; B.S., M.S. (Brazil), Ph.D (UIUC) -1997.

Turdaliev, Nurlan; B.S., M.S. (Russia), M.A. (Arkansas), Ph.D. (Minnesota)-2001.

Rhee, Hyuk-jae; B.S., M.S. (Korea), Ph.D. (Michigan State)-2003.

#### Lecturers

Jouini, Tarek; B.A., M.Sc. (Tunisia)-1993.

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	<b>FACULTY OF EDUCATION</b>
	<b>Dean</b>
	Pat Rogers; B.A. (Oxon), M.Sc. (Toronto), Ph.D. (London)-2001.
	<b>Associate Deans</b>
	Bayley, Jonathan G.; B.Mus. (McGill), B.Ed., M.Mus. (Alberta), M.M. (Eastman), Ph.D. (Ohio State)-2003.(Associate Dean, Graduate Studies, Research and Continuing Education)
	Beckford, Clinton L.; Cert. in Teaching (Church), B.A. (West Indies), Ph.D. (West Indies)-2002. (Acting Associate Dean, Pre-Service)
	Tarailo, Michele; B.F.A., B.Ed. (Windsor), M.F.A. (Cranbrook), Ed.D. (Wayne State)-1990. (Associate Dean, Pre-Service Program)- Sabbatical
	<i>OFFICERS OF INSTRUCTION</i>
	<b>Professors Emeriti</b>
	Crawford, W. J. Ian; B.Sc.(Hons.) (Windsor), M.A.(Ed.) (Ottawa), M.Ed., Ed.D. (Wayne State)-1973.
	Laing, Donald A.; B.A., M.A., Ph.D. (Toronto)-1976.
	Williams, Noel H.; B.A. (Sir George Williams), M.Ed. (McGill), Ph.D. (Alberta)-1976.
	Diffey, Norman R.; B.A. Dip.Ed. (Oxon), M.A. (McMaster), Ph.D. (McGill)-1987.
	<b>Associate Professors Emeriti</b>
	McKay, Linda; B.S. (North Carolina), M.S. (Maryland), Ph.D. (Wayne State)-1968.
	<b>Professors</b>
	Morton, Larry; B.A. (Waterloo), B.Th. (O.B.C.), B.Ed. (O.T.E.C.), M.A., Ph.D. (Toronto)-1988.
	Glassford, Larry; B.A., Dip.Ed.(Western Ontario), M.A. (Carleton), Ph.D. (York)-1991.
	Starr, Elizabeth; B.A. (Guelph), B.Ed. (Queen's), M.Ed. (Acadia), Ph.D. (Alberta)-1996.
	Rogers, Pat; B.A. (Oxon), M.Sc. (Toronto), Ph.D. (London)-2001. (Dean of the Faculty of Education)
	Ezeife, Anthony N.; B.Sc. (Lagos), M.A., M.Sc. (Columbia), Ph.D. (Nigeria)-2002.
	<b>Associate Professors</b>
	Stenlund, Vern; B.A., B.Ed. (Western Ontario), M.Ed. (Windsor), Ed.D. (Michigan)-1986.
	Flewelling, Janet; B.A. (Hons.) (Guelph), B.Ed. (Queen's), M.Ed., Ed.D. (Toronto)-1990. (Co-ordinator of In-Service Programs)
	Tarailo, Michele; B.F.A., B.Ed. (Windsor), M.F.A. (Cranbrook), Ed.D. (Wayne State)-1990.
	Glassford, Larry; B.A., Dip.Ed.(Western Ontario), M.A. (Carleton), Ph.D. (York)-1991.
	Egbo, Benedicta O.; B.Ed., Dip.Ed. (Alberta), M.A., Ph.D. (Toronto)-1998.
	Smith, Kara; B.A. (Waterloo), B.Comm. (Windsor), B.Ed., M.Ed. (Western Ontario), Ph.D. (Stirling)-1998.
	Beckford, Clinton L.; Cert. in Teaching (Church), B.A. (West Indies), Ph.D. (West Indies)-2002.
	Bayley, Jonathan G.; B.Mus. (McGill), B.Ed., M.Mus. (Alberta), M.M. (Eastman), Ph.D. (Ohio State)-2003.(Associate Dean, Graduate Studies, Research and Continuing Education)
	Dlamini, S. Nombuso; B.A., Dipl.Ed. (Swaziland), M.A. (St. Mary's), Ph.D. (Toronto)-2003.
	<b>Assistant Professors</b>
	Salintri, Geri; B.Sc., B.Ed., M.Ed., Ph.D. (Windsor)-1999.

Allen, Andrew; Dip.Tech., B.Tech. (Ryerson), B.Ed., M.Ed. (York), Ph.D. (Toronto)-2002.

Cherian, Finney V.; B.Sc., B.Ed., M.Ed., Ph.D. (Toronto)-2004.

Daly, Beth; B.A. (Windsor), B.Ed. (Western Ontario), M.A., Ph.D. (Windsor)-2004.

Daniel, Yvette; Teach.Cert. (Hebrew University Teachers' College), B.A., M.Ed. (Toronto), Ph.D. (York)-2004.

Doan, Lara; B.A. (Hons.) M.A., Ph.D. (York)-2005.

Maldonado, Marlene; B.A., (Valencia, Venezuela), M.Ed., Ph.D., (Washington)-2005.

Martinovic, Dragana; B.Sc. (Hons.), M.Sc. (Belgrade, Yugoslavia), Ph.D. (OISE)-2005.

McInnes, Alison; B.A. (Manitoba), M.Cl.Sc. (Western, Ontario), Ph.D. (OISE)-2005.

Sefton, Terry Gay; B.Mus. (McGill), B.Ed., M.Ed. (Western, Ontario), Ph.D. (Toronto)-2005.

Stanley, R. Darren; B.Sc. (Hons) (Acadia), M.Sc. (Simon Fraser), Ph. D. (Alberta)-2005.

Xu, Shi Jing; B.A. (Suzhou University-China), M.A. (York), Ph.D. (OISE)-2007.

Zhang, Zuo Chen; B.A. (Shanghai International), M.Sc. (Minnesota State University, Mankato), Ph.D. (University of British Columbia)-2007.

Zhou, Guoqiang; B.Sc. (Liaocheng University-China), M.Ed. (Huazhong University of Science and Technology-China), Ph.D. (Alberta)-2007.

#### **Lecturers**

Greig, Christopher J.; B.A. (Wilfrid Laurier University), Dip. Ed. (Australia), M.Ed. (Western)-2007.

Shujah, Aamer; B.Sc. Honours (Toronto), M.A. (OISE)-2007.

Tousignant, Wayne; B.F.A. (Windsor), B.Ed. (Windsor), M.F.A. (Windsor)-2007.

#### **Learning Specialist**

Roland, Karen; B.A. (Windsor), B.Ed. (Windsor), M.Ed. (Windsor)-2007.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

(Ext. 2288)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

McNamara, Eugene Joseph; B.A., M.A. (DePaul), Ph.D. (Northwestern)-1959.

Stollman, Samuel S.; Rabbi (Yeshiva), B.Sc. (Columbia), M.A., Ph.D. (Wayne State)-1966.

MacLeod, Alistair; B.A., B.Ed. (St. F. X.), M.A. (New Brunswick), Ph.D. (Notre Dame). Honoris Causa: LL.D. (St. F.X.), LL.D. (King's College), LL.D. (Windsor), LL.D. (York), LL.D. (Law Society of Upper Canada), Litt.D. (Cape Breton), Litt.D. (Prince Edward Island), Litt.D. (New Brunswick), Litt.D. (Alberta), Litt.D. (McGill), LL.D. (Assumption), F.R.S.C., LL.D. (Concordia), LL.D. (Trent)-1969.

Stevens, Peter; B.A. (Nottingham), M.A. (McMaster), Ph.D. (Saskatchewan)-1969.

Janzen, Henry David; B.A. (Assumption), M.A. (Windsor), Ph.D. (Wayne State)-1970.

MacKendrick, Louis Kim; B.A., M.A. (Western Ontario), Phil.M., Ph.D. (Toronto)-1971.

Atkinson, Colin B.; B.Eng. (McGill), B.A. (Sir George Williams), M.A. (Columbia), Ph.D. (New York)-1971.

#### University Professor

Dilworth, Thomas R.; B.A., M.A., Ph.D. (Toronto)-1977.

#### Associate Professors

Harder, Bernhard D.; B.A., M.A. (British Columbia), Ph.D. (North Carolina)-1970.

Quinsey, Katherine M.; B.A. (Trent), Ph.D. (London)-1989.

Straus, Barrie Ruth; B.A. (Oregon), M.A., Ph.D. (Iowa)-1990.

Matheson, C. Suzanne; B.A. (McGill), M.A. (Toronto), D.Phil. (Oxford)-1991.

Davison, Carol Margaret; B.A. (Concordia), M.A. (York), Ph.D. (McGill)-2000.

Holbrook, Susan; B.A. (Victoria), M.A., Ph.D. (Calgary)-2000.

Jacobs, Dale; B.A., M.A. (Alberta), Ph.D. (Nebraska)-2000.

Pender, Stephen; B.A. (Toronto), M.A. (Queen's), Ph.D. (Toronto)-2000.

Jirgens, Karl E.; B.A. (Toronto), M.A., Ph.D. (York)-2004. (Head of the Department)

Markotic, Nicole; B.A. (Calgary), M.A. (Manitoba), Ph.D. (Calgary)-2006.

#### Assistant Professors

Douglass-Chin, Richard; B.A. (McMaster), M.A. (Western), Ph.D. (McMaster)-2004.

Frank, Johanna; B.A. (Michigan), M.A., Ph.D. (Indiana)-2005.

Luft, Joanna; B.A., M.A. (Wilfrid Laurier), Ph.D.(McMaster)-2005.

Cabri, Louis; B.A. (Carleton), M.A. (Calgary), Ph.D., (Pennsylvania)-2006.

Johnston, Mark; B.A. (Western), M.A. (Queen's), Ph.D. (Western) - 2007.

#### Sessional Lecturer

Hurwitz, Anita; B.A., M.A. (Windsor) - 1993.

#### Resident Writing Professional

Gervais, Marty; B.A. (Guelph), M.A. (Windsor) - 1997.

### **Writer in Residence**

Each year we host an internationally recognized writer in Residence, who offers readings, lectures and workshops. Writers in residence have included Morley Callaghan, Tom Wayman, W. O. Mitchell, Adele Wiseman, Peter Robinson, Judith Fitzgerald, Daniel David Moses, Lillian Allen, Daphne Marlatt, Marilyn Dumont, Mansel Robinson, Margaret Christakos, Nino Ricci and Christopher Dewdney.

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## CIVIL AND ENVIRONMENTAL ENGINEERING

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

DeMarco, Frank A.; B.A.Sc., M.A.Sc., Ph.D. (Toronto), F.C.I.C., P.Eng.-1946.

Kennedy, John B.; B.Sc.(Hons.) (Cardiff), Ph.D. (Toronto), D.Sc. (Wales), F.A.S.C.E., F.C.S.C.E., P.Eng.-1963.

MacInnis, Cameron; B.Sc. (Dalhousie), B.E.(Hons) (Nova Scotia Technical College), Ph.D. (Durham), F.C.S.C.E., P.Eng.-1963.

McCorquodale, John Alexander; B.E.Sc. (Western Ontario), M.Sc. (Glasgow), Ph.D. (Windsor), F.C.C.C.E., P.Eng.-1966.

Abdel-Sayed, George; B.Sc., M.Sc. (Cairo), Dr.Ing. (T. U. Karlsruhe), F.C.S.C.E., P.Eng.-1967.

Bewtra, Jatinder K.; B.E. (Roorkee), M.S., Ph.D. (Iowa), P.Eng.-1968.

Madugula, Murty K.S.; B.E.(Hons.), M.Tech., Ph.D. (I.I.T., Kharagpur), P.Eng.-1979.

#### University Professor

Biswas, Nihar; B.E. (Calcutta), M.A.Sc., Ph.D. (Ottawa), P.Eng.-1981. Associate Dean (Research and Graduate Studies), Faculty of Engineering. (Acting Vice-President Research)

#### Professors

Asfour, Abdul-Fattah Aly; B.Sc.(Hons.), M.A.Sc. (Alexandria), Ph.D. (Waterloo), P.Eng.-1981.

Budkowska, Bozena Barbara; B.A.Sc., M.A.Sc., Ph.D. (Gdansk), P.Eng.-1989.

Balachandar, Ram; B.E. (Madras), Ph.D. (Concordia), P.Eng.-2003. Acting Associate Dean (Research and Graduate Studies)

#### Associate Professors

Henshaw, Paul; B.Sc., B.Eng.Sc. (Western Ontario), Ph.D. (Windsor), P.Eng.-1997. (Environmental Engineering Graduate Coordinator)

Ghrib, Faouzi; B.A.Sc. (Tunis), M.Sc., Ph.D. (École Polytech.), P.Eng.-1999.

Hearn, Nataliya; B.A.Sc. (Toronto), Ph.D. (Cambridge), P.Eng.-1999.

Lalman, Jerald; B.Sc., B.A.Sc., M.Eng., Ph.D. (Toronto), P.Eng.-2003. (Head, Civil and Environmental Engineering)

#### Assistant Professors

Tam, Edwin; B.Sc., M.Sc. (Alberta), Ph.D. (Toronto)-2001. (Assistant Dean, Student Affairs -WINONE) (Cross-appointment to MAME)

Seth, Rajesh; B.E., M.Tech. (IIT, Kanpur), Ph.D. (Toronto)-2002.

Xu, Xiaohong; B.E. (Beijing), M.Sc., Ph.D. (Connecticut)-2002.

Carriveau, Edward; B.A.Sc. (Windsor), M.A.Sc., Ph.D. (Western), P.Eng.-2004.

Das, Sreekanta; B.Sc. (Calcutta), M.Sc. (Wollongon), Ph.D. (Alberta)-2004.

Cheng, Shaohong; B.Eng., M.Eng. (Tongi), Ph.D. (Carleton), P.Eng.-2005. (Joint-appointment with MAME)

Bolisetti, Tirupati; B.E. (Andhra, India), M.Tech. (I.I.T., Kanpur, India), Ph.D. (Windsor), P.Eng.(Ontario) - 2006

Lee, Chris, B.A.Sc. (Toronto), M.E. (Yonsei, Korea), M.A.Sc. (Toronto), Ph.D. (Waterloo).-2007

#### Adjunct Professors

Becker, Norbert Karl; B.A.Sc., Ph.D. (Windsor), P.Eng.-1981.

#### Adjunct Associate Professor



Tsui, Stephen H.; B.Sc. (Chu Hai, Hong Kong), M.Eng. (Carleton), C. Eng., M.I.Struct.E., P.Eng.-1982.

Jasim, Saad Y.; Ph.D. (Wales), P.Eng.-1994.

**Adjunct Assistant Professors**

Carpenter, Donald; B.S. (Purdue), M.S. (Oregon State), Ph.D. (Michigan)-2006

Li, Jian; B.S. (Wuhan, China), M.S. (Tongji, China), Ph. D. (Meiji, Japan), P.Eng. (Ontario), PE (Michigan)-2006

**Cross-Appointment**

Taylor, Keith E.; B.Sc., Ph.D. (Toronto)-1976.

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## ELECTRICAL AND COMPUTER ENGINEERING

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Miller, William C.; B.S.E. (Michigan), M.A.Sc., Ph.D. (Waterloo), L.M.I.E.E.E, P.Eng.-1968.

Hackam, Rueben; B.Sc. (Technion, Israel), Ph.D., D.Eng. (Liverpool), F.I.E.E.E., P.Eng.-1978.

Raju, G.R. Govinda; B.E. (Mysore), Ph.D. (Liverpool), F.I.E., P.Eng.- 1980.

#### Associate Professors Emeriti

Alexander, Philip H.; B.A.Sc. (Assumption), M.A.Sc., (Windsor), P.Eng.- 1964.

#### University Professor

Ahmadi, Majid; B.Sc. (Tehran, Iran), D.I.C., Ph.D. (Imperial College), F.I.E.E.E., F.I.E.E., C.Eng.-1981.

#### Professors

Sid-Ahmed, Maher A.; B.Sc. (Alexandria), M.A.Sc., Ph.D. (Windsor), P. Eng.-1978. (Head of the Department)

Kwan, H.K. Peter; B.Sc. (London), M.Phil. (C.U.H.K.), D.I.C., Ph.D., (London), F.I.E.E., C. Eng., P. Eng., - 1988.

Erfani, Shervin; B.S., M.S. (Tehran, Iran), M.S., Ph.D., (Southern Methodist University, USA), S.M.I.E.E.E.-2002.

Wu, Jonathan; B.Sc. (Shandong), M.Sc. (Coventry), Ph.D. (Wales)-2005.

#### Associate Professors

Chen, Xiang; B.Sc., M.Sc., (Huazhong China), M.Sc., Ph.D. (Louisiana State)-2000. (Cross-Appointment with Mechanical, Automotive and Materials Engineering)

Chen, Chunhong; B.Sc., M.Sc. (Tianjin, China); Ph.D. (Fudan, China), P.Eng.-2001.

Abdel-Raheem, Esam; B.Sc., M.Sc. (Ain Shams, Egypt), Ph.D. (Victoria, BC), S.M.I.E.E.E., P.Eng. -2003.

O'Leary, Stephen K.; B.A.Sc., M.Sc., Ph.D. (Toronto), P.Eng.-2006.

#### Assistant Professor

Tepe, Kemal; B.Sc. (Hacettepe, Turkey), M.S., Ph.D. (Rensselaer Polytechnic Insititute, NY)-2002.

Shahrrava, Benham; B.Sc., M.Sc. (Amirkabir, Iran), Ph.D. (Waterloo)- 2002.

Wu, Huapeng; B.S., M.Sc. (U.S.T.C., China), Ph.D. (Waterloo)-2002.

Chowdhury, Sazzadur; B.Sc. (B.U.E.T., Bangladesh), M.A.Sc., Ph.D. (Windsor), P.Eng-2003.

Kar, Narayan Chandra; B.Sc. (Bangladesh), M.Sc., Ph.D. (Kitami Institute of Technology, Japan)-2000, P.Eng - 2003. (Cross-Appointment with Mechanical, Automotive and Materials Engineering)

Khalid, Mohammed; B.Sc. (Osmania), M.Sc. (LSU), Ph.D. (Toronto)-2003.

Muscedere, Roberto; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-2004.

#### Adjunct Professor

Jullien, Graham, A.; B.Tech. (Loughborough), M.Sc. (Birmingham), Ph.D. (Aston), P.Eng.-1969. (Professor and Icore Chair, ECE, University of Calgary).

#### Cross Appointments

Boufama, Boubakeur; Engg. (Constantine), M.Sc. (France), Ph.D. (Grenoble) -1999.

Maev, Roman. G.; B.Sc. (Moscow Physical Engineering Institute), M.Sc. (Moscow Physical Technical University), Ph.D. (Lebedev)- 1995.

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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

### OFFICERS OF INSTRUCTION

#### Professors

Lashkari, Reza S.; B.Sc. (Tehran), M.S.I.E., Ph.D. (Kansas State), P.Eng.-1977.

Wang, Hunglin (Michael); B.S. (National Tsing-Hua U.), M.S. (SUNY, Buffalo), Ph.D. (Iowa), P.Eng.-1991.

El Maraghy, Hoda A.; B.Eng. (Cairo), M.Eng., Ph.D. (McMaster), P.Eng.-1994.

El Maraghy, Waguih; B.Eng. (Cairo), M.Eng., Ph.D. (McMaster), P.Eng.-1994. (Acting Department Head)

#### Associate Professor

Abdul-Kader, Walid; B.A.Sc. (Université du Québec à Trois-Rivières), M.A.Sc. (École Polytechnique de Montréal), Ph.D. (Laval), P.Eng.-2003.

Oriet, Leo; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng., CCPE,-2003.

Pasek, Zbigniew J. ; PhD, MSE (University of Michigan), MSc (Warsaw University of Technology)-2005.

Zhang, Guoqing (Michael); B.Eng., M.Eng. (Southeast U.), Ph.D. (City U. of Hong Kong)-2000.

#### Cross-Appointment

Baki, Fazle M., B.Sc. (Bangladesh Inst. of Technology) M.B.A.(University of Dhaka), M.B.A. (Univ. of Brunswick), Ph.D. (University of Waterloo)-1999.

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## MECHANICAL, AUTOMOTIVE, AND MATERIALS ENGINEERING

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Sridhar, Krishnaswamy; B.Sc. (Madras U.) D.M.I.T. (Madras Inst. of Technology), M.A.Sc., Ph.D. (Toronto), P.Eng.-1963.

Youdelis, William V.; B.Sc. (Alberta), M.Eng., Ph.D. (McGill), P.Eng.-1965.

Watt, Daniel Frank; B.Sc. (Alberta), Ph.D. (McMaster), P.Eng.-1969.

#### Professors

Barron, Ronald Michael; B.A., M.Sc. (Windsor), M.S. (Stanford), Ph.D. (Carleton)-1975. (Cross-appointment with Mathematics and Statistics)

Northwood, Derek Owen; B.Sc. (Eng.), A.R.S.M. (London), M.Sc. (Part I), Ph.D. (Surrey), F.I.M.M.M., F.A.S.M., F.I.M.M.A., F.I.E. (Aust.), C.Sci. (U.K.), C.P.Eng. (Aust.), P.Eng.-1976.

Rankin, Gary W.; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-1980.

Zamani, Nader G.; B.Sc. (Case Western), M.Sc., Ph.D. (Brown), P.Eng.-1986.

Alpas, Ahmet T.; B.Sc., M.Sc. (Middle East Tech.), Ph.D. (Open Univ. U.K.), P.Eng-1989. (NSERC/GM Industrial Research Chair in Tribology)

Sokolowski, Jerzy Hieronim; M.M.E., Ph.D. (Tech. U. of Silesia)-1993.

Frise, Peter R.; B.Sc. (Eng.), M.Sc. (Eng.) (Queen's), Ph.D. (Carleton), F.C.A.E., P.Eng.-1997.

Ting, David Sing-Khing; B.Sc. (Manitoba), M.Sc., Ph.D. (Alberta), P.Eng.-1997.

Reader, Graham T.; B.Tech.(Hons) (Bradford), B.A. (O.U.), P.S.C. (J.S.D.C.), Ph.D. (Bradford), P.Eng., C.M.E., C.Eng., Eur.Eng., F.I.MarEST-1999. (Dean, Faculty of Engineering)

#### Associate Professors

Gaspar, Robert George Stephen; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-1983.

Sobiesiak, Andrzej; M.Sc., Ph.D. (Warsaw Technical University), P.Eng.-1998.

Altenhof, William; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-1999.

Chen, Xiang; B.Sc., M.Sc. (Huazhong Univ. of Science and Tech.), M.Sc., Ph.D. (Louisiana State)-2000. (Cross-appointment with Electrical and Computer Engineering)

Hu, Henry; B.A.Sc. (Shanghai University), M.A.Sc. (Windsor), Ph.D. (Toronto)-2000.

Fartaj, Amir; B.S., M.S., Ph.D. (Kansas)-2001.

Zheng, Ming; M.Sc. (Tsinghua), Ph.D. (Calgary)-2002. (Canada Research Chair in Clean Diesel Engine Technology)

#### Assistant Professors

Bowers, Randy; S.M. (M.I.T.), B.S., Ph.D. (Rensselaer)-2000. (Acting Head of the Department)

Minaker, Bruce; B.A.Sc. (Waterloo), M.Sc., Ph.D. (Queen's), P.Eng.-2001.

Tam, Edwin; B.Sc., M.Sc. (Alberta), Ph.D. (Toronto), P.Eng.-2001. (Cross-appointment with Civil and Environmental Engineering).

Zhou, Biao; B.Eng., M.Eng. (Nanjing U. of Aeronautics and Astronautics), Ph.D. (Tsinghua)-2002.

Kar, Narayan Chandra; B.Sc. (Bangladesh), M.Sc., Ph.D. (Kitami Institute of Technology, Japan)-2003. (Cross-appointment with Electrical and Computer Engineering).

Nie, Xueyuan; B.A.Sc., M.Sc. (Nanjing), Ph.D. (Hull, UK)-2003.

Pusca, Daniela; M.Sc. (Lucian Blaga, Romania), Ph.D. (Cluj, Romania)-2003.

Stoilov, Vesselin; M.Sc. (Sofia, Bulgaria), M.Sc. (Sofia, Bulgaria/ Erlangen, Germany), Ph.D. (Alberta)-2003.

Edrisky, Afsaneh; B.Sc. (Isfahan U. of Technology), Ph.D. (Windsor)-2004.

Green, Daniel E.; B.A.Sc. (Université de Metz), D.E.A. (Institut National Polytechnique de Lorraine), M.A.Sc., Ph.D. (Université de Sherbrooke)-2004.

Cheng, Shaohong; B.Eng., M.Eng. (Tongi University), Ph.D. (Carleton), P.Eng.-2005. (Cross-appointment with Civil and Environmental Engineering)

#### **Lecturer**

Novak, Colin; B.A.Sc., M.A.Sc. (Windsor), P.Eng.-2003.

#### **Adjunct Professors**

Cheng, Yang-Tse; B.S., M.S., Ph.D. (Caltech)-2003.

Evans, Walter; B.S. (Case Institute of Technology), M.S., Ph.D. (Case Western Reserve)-2003.

Perry, Thomas; B.S. (Michigan), M.S. (Wisconsin), Ph.D. (Michigan)-2002.

El-Sebakhy, Ibrahim; B.A.Sc., M.A.Sc., Ph.D. (Windsor), P.Eng.-2004.

Li, Naiyi; B.S. (National Cheng-Kung Univ. Taiwan), M.S., Ph.D. (Univ. of Michigan)-2004.

Liaisi, Evangelos; B.A.Sc., M.A.Sc., Ph.D. (Windsor)-2004.

Liu, Zhong-Sheng (Simon); B.As., M.Sc., Ph.D. (Jilin University)-2004.

#### **Adjunct Associate Professor**

Damodaran, Vijay; B.E.-Hons (Birla), M.A.Sc. (Windsor), Ph.D. (Windsor)-2003.

Ramakrishnan, Ramani; B.Tech. (IIT, Madras), M.S., Ph.D. (George Washington), P.Eng.-2003.

#### **Adjunct Assistant Professor**

Tjong, Jimi S-Y.; B.A.Sc., M.A.Sc., Ph.D. (Windsor)-1993.

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## HISTORY

(Ext. 2318)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Pryke, Kenneth G.; B.A. (Carleton), M.A., Ph.D. (Duke)-1963.

Klinck, David M.; B.A.; M.A. (Western Ontario), Ph.D. (Wisconsin)-1968.

Kulisek, Larry L.; B.S. (Northwest Missouri State), M.A. (Omaha), Ph.D. (Wayne State)-1968.

McCrone, Kathleen E.; B.A. (Saskatchewan), M.A., Ph.D. (New York U.)-1968.

Sautter, Udo; B.Phil, St. E. 1st and 2nd, Ph.D. (U. of Tuebingen)-1969.

#### University Professor

Howsam, Leslie; B.A. (Waterloo), M.A., Ph.D. (York)-1993.

#### Professors

Tucker, E. Bruce; B.A., M.A. (Toronto), Ph.D. (Brown)-1988.

Way, Peter; B.A. (Trent), M.A. (Queens), Ph.D. (Maryland)-1991.

#### Associate Professors

Simmons, Christina; A.B. (Radcliffe), M.A., Ph.D. (Brown)-1990.

Burr, Christina A.; B.A. (Western), M.A. (Western Ontario), Ph.D. (Memorial)-1997.

Palmer, Steven; B.A. (British Columbia), M.A., Ph.D. (Columbia)-2001.

#### Assistant Professors

Wright, Miriam; B.A. (Western), M.A. (Queen's), Ph.D. (Memorial)-1997.

Nelson, Robert; B.A. (Simon Fraser), M.A. (Simon Fraser), Ph.D. (Cambridge)-2003.

Lazure, Guy; B.A. (Montreal), M.A., Ph.D. (Johns Hopkins)-2003.

Mohamed, Mohamed H.; B.A. (Kartoum); M.A.; Ph.D. (Alberta)-2004.

Huffaker, Shauna; B.A.(Boise State); M.A.; Ph.D. (Univ. of California, Santa Barbara)-2007.

#### Adjunct Assistant Professors

Reid-Maroney, Nina; B.A. (Western), Ph.D. (Toronto) - 1992

Atkin, Natalie; B.A. (Ottawa), Ph.D. (Wayne State) 1999

### RELIGIOUS STUDIES

#### Professor Emeritus

Crowley, Edward J.; B.A. (St. Joseph's, New Brunswick), S.T.L. (Catholic U. of America), S.S.L. (Pontifical Biblical Institute, Rome)-1957.

#### Professor

Milne, Pamela J.; B.A., M.A. (Windsor), Ph.D. (McGill)-1984.

#### Associate Professor

Muldoon, Maureen H.; B.A. (Queen's), M.A., Ph.D. (U. of St. Michael's College, Toronto)-1986.

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## FACULTY OF HUMAN KINETICS

(Ext. 2429)

### OFFICERS OF INSTRUCTION

#### DEPARTMENT OF KINESIOLOGY

#### Professors Emeriti

Moriarty, Richard J.; B.A., M.A. (Assumption), M.Ed. (Wayne State), Ph.D. (Ohio State)-1956.

Kimmerle, Marliese; B.A., B.P.H.E. (Queen's), M.A., Ph.D. (Michigan)-1969.

Metcalfe, Alan; D.L.C. (Loughborough), B.P.E. (British Columbia), M.S., M.A., Ph.D. (Wisconsin)-1969.

Salter, Michael A.; D.P.E. (Sydney), B.P.E., M.A., Ph.D. (Alberta)-1972.

#### Professors

Boucher, Robert L.; B.Sc. (Mankato State), M.Sc. (Illinois State), Ph.D. (Ohio State)-1974. (Dean of the Faculty of Human Kinetics)

Marino, G. Wayne; B.A., B.P.E. (McMaster), M.P.E. (Windsor), Ph.D. (Illinois)-1977.

#### Associate Professors

Holman, Margery J.; B.A., B.P.H.E., (Windsor), M.Ed. (Wayne State), Ph.D. (Michigan State)-1970.

Kenno, Kenji A.; B.P.H.E. (Lakehead), M.H.K., (Windsor), Ph.D. (Toledo)-1984.

Paraschak, Victoria A.; B.P.E. (McMaster), M.H.K. (Windsor), Ph.D. (Alberta)-1984.

Weir, Patricia L.; B.H.K., M.H.K. (Windsor), Ph.D. (Waterloo)-1991.

Andrews, David M.; B.P.E., M.Sc. (McMaster), Ph.D. (Waterloo)-2000.

Martyn, Scott G.; B.A., M.A., Ph.D. (Western Ontario)-2000.

Chandler, Krista J.; B.A. (Prince Edward Island), M.A. (Queen's), Ph.D. (Western Ontario)-2001.

Taks, Marijke; B.Sc., M.Sc., Ph.D. (Leuven)-2001.

McNevin, Nancy H.; B.A. (McMaster), M.H.K. (Windsor), Ph.D. (Louisiana State)-2007.

#### Assistant Professors

Jakobi, Jennifer; B.H.K. (Windsor), M.Sc. (York), Ph.D. (Western Ontario)-2003.

Loughead, Todd; B.Sc. (Ottawa), B.Ed. (Brock), M.Sc. (Toronto), Ph.D. (Western)-2005.

Dixon, Jess C.; Hon. B.S.M. (Brock), M.H.K. (Windsor), Ph.D. (Massachusetts)-2007.

Misener, Laura; Hon. B.Kin. (McMaster), M.H.K. (Windsor), Ph.D. (Alberta)-2007.

Horton, Sean; B.A. (Queens), M.A. (Queen's), PhD. (Queen's) - 2007

#### Lecturers

Azar, Nadia R.; B.H.K. (Windsor), M.H.K. (Windsor), M.S. (Wayne State), Ph.D. (Wayne State)-2007.

Drake, Janessa; B.Sc. (Guelph), M.Sc. (Guelph), Ph.D. (Waterloo)-2007.

#### Adjunct Assistant Professor

Forsyth, Janice E; B.H.K. (Windsor), M.H.K. (Windsor), Ph.D. (Wayne State, MI)-1997.

#### DIVISION OF ATHLETICS AND RECREATIONAL SERVICES

#### Ancillary Academic Staff IV

Fairall, Dennis; B.A., B.Ed. (Western Ontario), M.H.K. (Windsor)-1985.

**Ancillary Academic Staff III**

Morencie, Michael; B.A. (Windsor)-1998.

Douglas, Marilyn; B.P.A.S. (Regina)-2000.

**Ancillary Academic Staff II**

Sutherland, Chad; B.Sc. H.K., M.Sc.ESS.-2004.

Vallée, Chantal; B.Ed. (UQAM), M.A. (McGill) - 2006.

Oliver, Chris; B.Kin. (McMaster), B.Ed. (Brock), M.Ed. (Victoria) - 2006.



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	<b>FACULTY OF LAW</b>
	(Ext. 2925)
	<b>Dean</b>
	Bruce P. Elman; B.Sc.(McGill), LL.B. (Dalhousie), LL.M. (Harvard).
	<b>Associate Dean</b>
	Gold, Mary; B.A., M.A. (Windsor), M.A. (Wayne State), J.D. (Detroit).
	<i>OFFICERS OF INSTRUCTION</i>
	<b>Honorary Professors</b>
	Zuber, Thomas; B.A. (Assumption), D.C.L. (Honoris Causa) (Windsor). The Honourable Thomas Zuber served as a member of Faculty prior to entering his judicial career.
	<b>Professors Emeriti</b>
	Whiteside, John W.; Q.C., L.S.M. D.C.L. (Honoris Causa) (Windsor), B.A. (Assumption), LL.B., (Osgoode) of Osgoode Hall, Barrister-at-Law-1970.
	Manzig, John G.W.; LL.B., LL.M. (Dalhousie), Lic. Jur., Dr. jur. (Cologne), of Osgoode Hall, Barrister-at-Law, also of the Bar of Nova Scotia-1970.
	Marasinghe, M. Lakshman; LL.B., LL.M. (University College, London), Ph.D. (The School of Oriental and African Studies, London), LL.D. (Honoris Causa) (University of Colombo), of the Inner Temple, England, Barrister-at-Law, and Attorney-at-Law of the Supreme Court of Sri Lanka. Professor Marasinghe is also an Adjunct Professor of Law, University of New South Wales, Sydney, Australia-1970.
	Stewart, George R.; B.A. (Carleton), LL.B. (Ottawa), LL.M. (L.S.E., London), of Osgoode Hall, Barrister-at-Law-1970.
	<b>Professors</b>
	Menezes, Julio R.; LL.B. (Tanzania), LL.M. (Yale), of Osgoode Hall, Barrister-at-Law-1973.
	Wydrzynski, Christopher J.; B.A., LL.B. (Windsor), LL.M. (Osgoode), of Osgoode Hall, Barrister-at-Law-1975.
	Wilson, Larry C.; LL.B. (Saskatchewan), LL.M. (Manitoba), of Osgoode Hall, Barrister-at-Law-1976.
	Murphy, Paul T.; B.A., LL.B. (Windsor), M.Sc.L.S., M.Ur.PI. (Wayne State), of Osgoode Hall, Barrister-at-Law-1976. (Law Librarian)
	Conklin, William E.; B.A. (Hons.) (Toronto), M.Sc. (L.S.E., London), LL.B. (Toronto), LL.M. (Columbia), Ph.D. (York), of Osgoode Hall, Barrister-at-Law-1977.
	Mazer, Brian M.; B.A., LL.B. (Saskatchewan), LL.M. (Alberta), of Osgoode Hall, Barrister-at-Law-1977.
	Bogart, William A.; B.A., LL.B. (Toronto), LL.M. (Harvard), of Osgoode Hall, Barrister-at-Law-1980.
	Carasco, Emily F.; LL.B. (Makerere University), LL.M., S.J.D. (Harvard), of Osgoode Hall, Barrister-at-Law-1980.
	Irish, Maureen F.; B.A., LL.B. (Toronto), LL.M., D.C.L. (McGill), of Osgoode Hall, Barrister-at-Law-1980.
	Berryman, Jeffrey; LL.B. (Hons.), M.Jur. (Auckland, N.Z.), LL.M. (Dalhousie), of Osgoode Hall, Barrister-at-Law. Also Barrister and Solicitor of the High Court of New Zealand-1981.
	Gold, Neil; B.A. (York), LL.B. (Toronto), LL.M. (York), of Osgoode Hall, Barrister-at-Law, also of the Bar of British Columbia-1985. (Provost and Vice-President, Academic of the University)
	West, J. Leigh; L.S.M., B.A. (Queen's), LL.B. (McGill), M.Sc. (Iowa State), LL.M. (Wayne State), of Osgoode Hall, Barrister-at-Law-1986.
	Etherington, Brian D.; B.A. (Hons.) (McMaster), B.Ed. (Queen's), LL.B. (Queen's), LL.M. (Yale), of Osgoode Hall, Barrister-at-Law-1987.
	Moon, Richard J.; B.A. (Trent), LL.B. (Queen's), B.C.L. (Oxford), of Osgoode Hall, Barrister-at-Law-1987.
	Tawfik, Myra J.; B.A., LL.B., B.C.L. (McGill), LL.M. (Queen Mary College, University of London), of Osgoode Hall, Barrister-

at-Law, Member of the Bar of Quebec-1991.

Valiante, Marcia A.; B.Sc., B.A. (New Hampshire), LL.B. (Osgoode), LL.M. (Queen's), of Osgoode Hall, Barrister-at-Law-1992.

Macfarlane, Julie; B.A., LL.M. (London), Ph.D. (C.N.N.A.)-1996.

Rotman, Leonard I.; B.A. (Toronto), LL.B. (Queen's), LL.M. (York), S.J.D. (Toronto), of Osgoode Hall, Barrister-at-Law-1998.

Elman, Bruce P.; B.Sc. (McGill), LL.B. (Dalhousie), LL.M. (Harvard) -2000. (Dean of the Faculty of Law)

#### **Associate Professors**

James, D. Charles; B.A. (Law) (Hons) (Southampton), LL.B. (Hons) (Cambridge), of Osgoode Hall, Barrister-at-Law-1977. (Secretary and General Counsel to the University)

Weir, John P.; B.Comm. (Hons.) (McMaster), LL.B. (Queen's), LL.M. (York), of Osgoode Hall, Barrister-at-Law-1983.

Eansor, Donna M.; LL.B. (Windsor), LL.M. (Wayne State), of Osgoode Hall, Barrister-at-Law-1989.

Voyvodic, Rose; LL.B. (Windsor), LL.M. (Ottawa), of Osgoode Hall, Barrister-at-Law-2002. (Academic Director of the Clinical Law Programs)

#### **Assistant Professors**

Tanovich, David; B.A., M.A. (Toronto), LL.B. (Queen's), LL.M. (N.Y.U.), Barrister-at-Law-1995.

Kuras, Ruth O.; B.Sc. (McMaster), B.A., LL.B. (Windsor), LL.M. (Wayne State), of Osgoode Hall, Barrister-at-Law-1999.

Ocheje, Paul D.; LL.B. (Ahmado Bello), LL.M. (Benin), LL.M. (Osgoode), D.Jur. (Osgoode). Barrister and Solicitor of the Supreme Court of Nigeria-2000.

Wiseman, David; LL.M. (Toronto), B.Ed./LL.B. (Monash University), Barrister and Solicitor of the Supreme Court of Victoria-2001.

Bahdi, Reem; B.A., M.A. (Western), LL.B, LL.M. (Toronto)-2002.

Pillay, Sukanya; B.A., LL.B. (Windsor), LL.M. (New York University), of Osgoode Hall, Barrister-at-Law-2002.

Dhir, Aaron; C.A. (Distinction), LL.B. (Dalhousie), LL.M. (New York University), of Osgoode Hall, Barrister-at-Law-2004.

#### **Legal Research and Writing Lecturers**

Denholm, Thomas J.; B.B.A. (Wilfrid Laurier), LL.B. (Queen's), LL.M. (Michigan) of Osgoode Hall, Barrister-at-Law.

Harper, Merry; Hons. B.A. (Western), M.L.I.S. (Western), LL.B. (Manitoba), M.A. (Windsor) of Osgoode Hall, Barrister-at-Law, also of the Bar of Manitoba.

McCarney, Moira; B.A. (Carleton), M.Ed. (Queen's), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law.

#### **Law Library Staff**

Murphy, Paul T.; B.A., LL.B. (Windsor), M.S.L.S., M.U.P. (Wayne State), of Osgoode Hall, Barrister-at-Law. (Law Librarian)

#### **Adjunct Professors**

Nosanchuk, Justice Saul, Ontario Court of Justice; B.A. (Assumption), LL.B (Osgoode). (Special Lecturer in Criminal Procedure and Criminal Sanctions)

Phillips, Justice Douglas, W., Ontario Court of Justice; B.A. (Western Ontario), LL.B. (Windsor). (Special Lecturer in Family Law, Child Protection, Custody and Adoption, and Civil Trial Advocacy)

#### **Law Foundation of Ontario Access to Justice Fellow**

George, Ron; B.A., LL.B. (Western Ontario), LL.M. (Ottawa), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Aboriginal Law)

#### **Access to Justice Fellow**

Hecht, Mark; B.A. (McGill), B.I.A. (Concordia), LL.B. (Windsor) of Osgoode Hall, Barrister-at-Law.

#### **Special Lecturers**

Allen, Craig J.; Hons. B.A. (Toronto), LL.B. (Osgoode), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Bondy, Christopher; B.A., LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in International Business Transactions)

Campbell, Gregory; LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Colautti, Raymond G.; LL.B. (Windsor), Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Dagg Centurione, Kileen; B.A. (Guelph), LL.B. (Windsor), LL.M. (Osgoode) of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Alternate Dispute Resolution)

DeMarco, Justice Guy; Ontario Court of Justice, B.A. (Western Ontario), LL.B. (Windsor). (Special Lecturer in Criminal Law)

Ducharme, Patrick; B.A., LL.B. (Windsor), of Osgoode Hall, Barrister-at Law. (Special Lecturer in Criminal Advocacy and Criminal Procedure)

Essex, Elizabeth Ann; B.A., LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Farha, Leilani; Hons. B.A., LL.B., M.S.W. (Toronto), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Feminist Legal Theory)

Goldstein, William; B.A., LL.B. (Windsor) of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Guttman, Daniel; B.S.C. Eng (Queen's), J.D./LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Constitutional Litigation)

Hewitt, Jeff; B.A., M.A., LL.B. (Windsor), Barrister-at-Law-1995. (Special Lecturer in Civil Procedure)

Howard, J. Paul R.; B.A., LL.B. (Toronto), LL.M. (York), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Education Law)

Istl, Danielle; B.A., B.Ed, LL.B. (Windsor). (Special Lecturer in Applied Legal Theory and Analysis - J.D./LL.B. program)

Libman, Justice Rick, Ontario Court of Justice; B.A. (York), LL.B. (Windsor), LL.M. (Osgoode Hall), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Advanced Criminal Law)

Liddle, John; B.A. (Hons), M.A. and LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Criminal Law)

MacOdrum, Donald H.; B.A. (Queen's), LL.B. (Toronto), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Patent Law)

Manarin, Brian; B.A. LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Criminal Law)

McCabe, Kaitlyn; LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

McCarthy, Patrick; B.A. (Calgary), LL.B. (Windsor), member of the Alberta Bar. (Special Lecturer in Insolvency and Restructuring)

McDermott, Carol A.; B.A. (Waterloo), M.L.S. (Western), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Administrative Advocacy Practicum in Housing Law)

McNevin, David; B.A., LL.B. (Windsor), Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Munroe, Kirk W.; B.A. (University of Florida), J.D. (Boston University School of Law), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in International Criminal Law)

Nolan, Master Mary Jo; B.A. (Toronto), M.S.W. (Ottawa), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law, Master of the Ontario Superior Court of Justice. (Special Lecturer in Civil Trial Advocacy)

Nurmohamed, Zahra; B.A. (Hons.) (Carleton), M.S.E. (York), J.D./LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Advanced Taxation)

Pawley, Howard; P.C., O.C, O.M., Q.C.; B.A. (Winnipeg), LL.B. (Manitoba), LL.D. (Windsor). (Special Lecturer in Canadian Federalism)

Posliff, Edward J.; B.A. (Windsor), LL.B. (York), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy)

Riley, Christine; B.A., LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Real Estate)

Robins, David L.; B.A. (Hons) (McGill), M.A. (Concordia University), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Class Action Suits)

Rose, Stephen; B.Comm. (Dalhousie), LL.B. (York), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Corporate Finance)

Sasso, William; B.A., LL.B. (Western), Barrister-at-Law-1970. (Special Lecturer in Torts)

Schwartz, Hart; B.A. (Winnipeg), LL.B. (Osgoode), LL.M. (New York), Barrister-at-Law. (Special Lecturer in Constitutional Litigation)

Sterling, Lori; B.A. (Hons) (Queen's), LL.B. (Toronto), LL.M. (Cambridge), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Constitutional Litigation)

Strosberg, Harvey T.; B.Sc. (Windsor), LL.B. (Osgoode Hall), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Class Action Suits)

Swan, Georgia; B.A. (Toronto), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Income Taxation)

Turner, Graham; B.Sc. (London), Ph.D. (McMaster), LL.B. (Osgoode), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Advance Taxation)

Vale, Marcy; H.B.Sc. (Toronto), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law-1995. (Special Lecturer in Civil Trial Advocacy)

Wells, Peter; B.Sc., LL.B.(Queen's), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Patent Law)

Wong, Gerri; B.A. (McGill), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Civil Trial Advocacy).

Wunder, Martin; Q.C., B.A. (Western), LL.B. (Osgoode), of Osgoode Hall, Barrister-at-Law. (Special Lecturer in Torts II)

#### **Executive Director of Legal Assistance of Windsor and Community Legal Aid**

Rodenhurst, Brian; Hons. B.A. (Guelph), LL.B. (Windsor), Barrister-at-Law-1978.

#### **Legal Assistance of Windsor**

McDermott, Carol A.; B.A. (Waterloo), M.L.S. (Western), LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law, staff lawyer.

Overholt, Marion; B.A., LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law, staff lawyer

Gilbert, Shelley; B.S.W. (Windsor), Coordinator of Programs.

Ware, Joy; B.S.W., B.Ed. (Windsor), staff social worker.

#### **Community Legal Aid**

Yaworsky, James; B.A., LL.B. (Toronto), of Osgoode Hall, Barrister-at-Law. Review Counsel. (Special Lecturer in Landlord/Tenant)

#### **Director of University of Windsor Mediation Service**

Smyth, Gemma; Hons. B.A. (Western), LL.B. (Windsor), LL.M. (Osgoode).

#### **Career Development Officer**

Herlehy, Francine; LL.B. (Windsor), of Osgoode Hall, Barrister-at-Law.

#### **Alumni and Fund Advancement Officer**

Momotiuk, Karen; Hons. B.A, LL.B. (Windsor), Barrister-at-Law-1998.

#### **Administrative Staff**

Pilutti, Michelle; Assistant to the Dean, Director of Admissions

Obierski, Virginia; Academic Coordinator

Dawson, Anne; Secretary to the Dean

Stein, Sandra; Secretary to the Associate Dean

Pastorius, Diane; General Office Secretary

Willis, Cathy; General Office Secretary

Pratt, Annette; Faculty Secretary

Mitchell, Mary; Faculty Secretary

Brogan, Tanya; Faculty Secretary/Special Projects

Squillaro, Debbie; Career and Alumni Development Secretary

#### **Law Library Staff**

Milne, Lisa; Circulation Desk Supervisor

Hutchinson, Mary Jane; Supervisor

Dienesch, Helga; Secretary to the Head Librarian

Olsen, Christina; Reader Services

Shiu, Thuy-Binh; Reader Services

Borg, Leslie; Reader Services

Grayce, Marianne; Technical Support  
Schulz, Tracy; Technical Support  
Strong, Pauline; Technical Support

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## LABOUR STUDIES

**Program Director:** Dr. Alan Hall

Faculty teaching courses that fulfill the requirements for degree programs in Labour Studies are listed in the "Instructors" section for various areas of study in Social Sciences and Business Administration.

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**LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)**

(Ext. 2873)

OFFICERS OF INSTRUCTION

## Professors Emeriti

Fantazzi, Charles; A.B., M.A. (Catholic U. of America), Ph.D. (Harvard)-1960. (Classics and Italian)

King, J. Norman; B.A., M.A. (Toronto), S. T.B. (Laval), Ph.D. (U. of St. Michael's College, Toronto)--1964.

Starets, Moshé; Dipl. Ed., B.A., M.A. (Tel Aviv), Doct. 3e cycle (Sorbonne)-1966. (French)

van den Hoven, Adrian T; B.A. (Assumption), M.A. (French), M.A. (English) Windsor, D. ès L. (Louvain)-1966. (French)

Bertman, Stephen; B.A. (New York), M.A. (Brandeis), Ph.D. (Columbia)-1967. (Classics)

Bird, Harry W.; B.A., Dipl.Ed., M.A. (Cambridge), M.A. (McMaster), Ph.D. (Toronto)-1969. (Classics)

Mehta, Mahesh; B.A., M.A., LL.B., Ph.D. (Bombay)-1969. (Asian Studies)

Majhanovich, Ljubo D.; B.A., M.A. (Toronto), Ph.D. (Illinois)--1970. (Slavic Studies)

Sarkar, Kalyan Kumar; B.A., M.A. (Calcutta), Ph.D. (Paris)-1970. (Oriental Studies)

Temelini, Walter J.; B.A., M.A., Ph.D. (Toronto)-1970. (Italian)

## Professors

deVillers, Jean-Pierre; L. ès L. (Aix-en-Provence), Ph.D. (Colorado)-1968. (French)

Whitney, Barry L.; B.A. (Carleton), Ph.D. (McMaster)-1976. (Religion and Culture)

## Associate Professors

Wendt-Hildebrandt, Susan; B.A., M.A., Ph.D. (Michigan)-1977. (German)

Lage, Dietmar; B.A. (Manitoba), M.A., Ph.D. (McGill)-1983. (Religion and Culture) (Head of the Department of Languages, Literatures, and Cultures/Langues, littératures et cultures)

Fraser, Veronica; B.A. (London), M.A., Ph.D. (Toronto)-1988. (French)

Feldman, Linda; B.A., M.A., Dipl.Ed., Ph.D. (McGill)-1991. (German)

Vitale, Rosanna; B.A. (Loyola of Montreal), M.A. (Western Ontario), Ph.D. (California, Santa Barbara)-1992. (Italian and Spanish)

Collet-Najem Tanja; Licence (Antwerp), M.A., Ph.D. (Montreal)-2001. (French)

Dolbec, Nathalie; B.A., M.A. (Toronto), B.Ed. (York), Ph.D. (Toronto)-2001. (French)

## Assistant Professors

Rossini, Antonia, B.A. (Rome), M.A. Ph.D. (Toronto)-2000. (Italian)

Fagan, Patricia; B.A., M.A., Ph.D. (Toronto)-2001. (Classics)

Sinanga, Judith; M.A., D.E.A. (Nice), Ph.D. (Queen's)-2001. (French)

Nelson, Max; B.A. (Windsor), M.A. (Ottawa), Ph.D. (British Columbia)-2002. (Classics)

Weir, Robert; B.A. (British Columbia), M.A., Ph.D. (Princeton)-2002. (Classics)

Sevillano, Victor; M.A., Ph.D. (Heidelberg)-2004. (Spanish, German and 2nd Language)

Worth, Jeremy D.; B.A. Hons, M.A. (Queen's), Ph.D (U.W.O.)-2004. (French)

Mboudjeke, Jean-Guy; B.A., M.A. (Cameroon), Ph.D (Dalhousie)-2006. (French)

Salvato, Giuliana; B.A., M.A., Ph.D. (Toronto)-2006. (Italian and Second Language Education)

**Adjunct Professors**

Kingstone, Basil D. ; B.A., M.A., Ph.D. (Oxford) , M.A. (Ottawa)-1963. (French)

Katsonopoulou, Dora; B.A., M.A. (University of Athens), Ph.D. (Cornell)-1990. (Classics)



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## MATHEMATICS AND STATISTICS

For further information, see our World Wide Web page: <http://www.uwindsor.ca.math>

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Smith, Alexander Cormac; B.Sc., M.Sc., Ph.D. (Dublin)-1963.

Chandna, Om Parkash; B.A. (Panjab), M.A. (Delhi), M.Sc., Ph.D. (Windsor)-1968.

Duggal, Krishan L.; B.A. (Panjab), M.A. (Agra), M.Sc., Ph.D. (Windsor)-1968.

Kaloni, Purna N.; M.Sc. (Allahabad), M.Tech., Ph.D. (Indian Inst. of Tech.)-1970.

Wigley, Neil M.; B.A., Ph.D. (California)-1970.

Wong, Chi Song; B.S. (National Taiwan U.), M.S. (Oregon), M.S., Ph.D. (Illinois-Urbana)-1971.

#### University Professors

Lemire, Francis William; B.Sc. (Windsor), M.Sc., Ph.D. (Queen's)-1970.

Paul, Sudhir R.; B.Sc., M.Sc. (Dacca), Ph.D. (Wales)-1982.

#### Professors

McDonald, James F.; B.S., Ph.D. (Wayne State)-1967.

Britten, Daniel J.; B.A. (Merrimack College), M.S., Ph.D. (Iowa)-1971.

Barron, Ronald Michael; B.A., M.Sc. (Windsor), M.S. (Stanford), Ph.D. (Carleton)-1975. (Associate Dean, Faculty of Graduate Studies and Research)

Fung, Karen Yuen; B.A., M.S., Ph.D. (UCLA)-1976.

Caron, Richard J.; B.M., M.M., Ph.D. (Waterloo)-1983. (Dean of the Faculty of Science)

Ahmed, Ejaz; B.Sc., M.Sc. (Karachi), M.Sc. (Guelph), Ph.D. (Carleton)-2002. (Head of the Department)

#### Associate Professors

Gold, Alan John; B.A. (Windsor), Dip. D'Etudes, Doct. de Spec. (Clermont)-1969. (Coordinator, Student Exchange Programs, Windsor International)

Traynor, Tim Eden; B.A., M.A. (Saskatchewan), Ph.D. (British Columbia)-1971.

Hlynka, Myron; B.Sc. (Manitoba), M.A., Ph.D. (Pennsylvania State)-1986.

Hu, Zhiguo; B.Sc., M.Sc. (Northeast), Ph.D. (Alberta)-1993.

#### Assistant Professors

Alfakih, Abdo Y.; L. és Ed. (Lebanese U), M.S. in Physics, M.S., Ph.D. in Operations Engineering (Michigan)-2003.

Hussein, Abdulkadir A.; B.Sc. (Trieste), M.Sc., Ph.D. (Alberta)-2003.

Monfared, Mehdi S.; B.Sc. (Sharif), M.Sc. (Iran U), Ph.D. (Alberta)-2003.

Nkurunziza, Sévérien; I.T.S. (IAMSEA), M.Sc., Ph.D. (UQAM)-2005.

#### Adjunct Professors

Brill, Percy; B.Sc. (Carleton), M.A. (Columbia), Ph.D. (Toronto)-1984.

Fleisher, Isidore; B.Sc. (Brooklyn), M.Sc., Ph.D. (Chicago)-1985.

Lev, Benjamin; B.Sc., M.Sc. (Technion), Ph.D. (Case Western)-2000.

#### Adjunct Associate Professors

Stanford, David; B.Sc. (Concordia), M.Eng., Ph.D. (Carleton)-2000.

Mandelbaum, Marvin; B.A.Sc. (Toronto), M.Sc. (Technion), Ph.D. (Toronto)-2002.

**Adjunct Assistant Professors**

Jraiche, Pierre; B.Sc.(Windsor), F.S.A., E.A., M.A.A.A.-2005.

**Cross-Appointments**

Aneja, Yash Paul; B.Sc., M.S. (Indian Statistical Institute), Ph.D. (Johns Hopkins)-2002.

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## MUSIC

(Ext. 2780)

### OFFICERS OF INSTRUCTION

#### Professors Emeritus

McIntyre, Paul; Artist Diploma, Mus. Bac., Mus. Doc. (Toronto)--1970.

Householder, Richard; B.A. (Hastings College), M.M. (Colorado)-1973.

Butler, E. Gregory; A.R.C.T. (Royal Conservatory of Toronto), B.M., M.M., D.M.A. (Eastman)-1974, Diploma in Arts and Technology, honoris causa, Loyalist College of Applied Arts and Technology, 2003.

#### Professors

Palmer, David John; B.Mus., M.Mus. (Michigan)-1970.

#### Associate Professors

Henrikson, Steven T.; B.Mus., M.Mus. (British Columbia), Diploma (State Academy of Music, Munich)-1976.

Adamson, Philip; A.R.C.T. (Royal Conservatory of Toronto), B.Mus. (British Columbia), M.Mus., D.Mus. (Indiana)-1977.

Curtis, Sandra; B.Mus. (McGill), M.Mus. (Music Therapy) (Florida State), Ph.D. (Concordia)-2002. (Director of the School)

Lee, Brent; B.Mus., M.Mus. (McGill), D.M.A. (British Columbia)-2002.

#### Assistant Professor

Bick, Sally; B.Mus. (Toronto), M.M. (Indiana). M.Phil. (Music History) (Yale), Ph.D. (Yale)-2003.

Waldron, Janice; B.Mus. (Houston), M.Mus. (Toronto), Ph.D. (Michigan State)-2006.

Magill, Lucanne; B.A. Psych (Whittier), M.A. Music Therapy (New York), Ph.D. Music Therapy (New York)-2007.

#### Adjunct Associate Professor

Inselman, Elsie; Voice-1990.

#### Special/Sessional Instructors

Berthelotte, Bernadette; Music Education.

Butler, E. Gregory; Piano.

Cox, Gregory; Guitar Techniques.

Chiou, Frank; Piano.

Clements-Cortes, Amy; Music Therapy.

Dearing, Steven; Classical Guitar.

Dwyer, Peggy; Voice.

Fazecash, Robert; Jazz Ensemble, Applied Jazz/Pop.

Green, Tom; Materials of Music.

Kruse, Steven; Viola.

McKeever, Catherine; Voice.

Ormston, James; Clarinet.

Papador, Nicholas; Percussion, Applied Jazz/Pop, Music Theory.

Price, Jeffrey, Saxophone, Applied Jazz/Pop.

Price, Rupert; Trombone.

Scheirich, Lillian; Violin.

Shantz, Timothy; University Singers, Chamber Choir, Basic Conducting.

Stone, Michael; Tuba.

Sun, Lyan; Voice.

Wagner, Jaimie; Flute.

Weed, Tad; Applied Jazz/Pop.

Wiebe, Peter; Windsor Community Orchestra.

Zanier, Brian; Trumpet.

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	Ext. 2258
	<b>Dean</b>
	TBA
	<b>Assistant to Provost (Nursing)</b>
	Ebbett, Gwendolyn; B.A.Eng. (Mount Allison), B.L.S. (Alberta), M.L.S. (Dalhousie)
	<b>Associate Dean</b>
	Patrick, Linda; RN, B.Sc.N. (Windsor), M.A. (Central Michigan), M.Sc. (Nursing) (Windsor), Ph.D. (Nursing) (McMaster)-2001.
	<b>OFFICERS OF INSTRUCTION</b>
	<b>Professors Emeritae</b>
	Gupta, Anna; RN, B.Sc.N., M.Sc.N. (Wayne State)-1968.
	Thomas, Barbara Campbell; RN, Dip.P.H.N., B.N.Sc. (Queen's), M.Ed. (Windsor), Ed.D. (Wayne State)-1969.
	Purushotham, Devamma; RN, B.N.Sc. (Queen's), M.Sc. (McGill), Ed.D. (Wayne State)-1974.
	Rosenbaum, Janet N.; RN, B.Sc.N., M.Sc.N., Ph.D., (Wayne State)-1975.
	Cameron, W. Sheila; RN, R.S.C.N. (Scotland), B.A. (McMaster), M.A. (Nurs. Educ.) (Detroit), Ed.D. (Wayne State), F.A.A.M.R.-1976. (retired University Professor)
	<b>Professors</b>
	Carty, Laurie; RN, B.Sc.N., B.A., M.Ed. (Windsor), Ph.D. (Wayne State)-1980.
	<b>Associate Professors</b>
	McMahon, Sharon; RN, B.Sc.N., B.A., M.Ed. (Windsor), Ed.D. (Wayne State)-1973.
	Rajacich, Dale; RN, B.Sc.N. (Windsor), M.Sc.N. (Western Ontario), Ph.D. (Nursing) (McMaster)-1987.
	Yiu, Lucia; RN, B.Sc. (Toronto), B.Sc.N., B.A. (Windsor), M.Sc.N. (Western Ontario)-1987.
	Kane, Deborah; RN, B.Sc.N. (Windsor), M.Sc.N. (Western Ontario), Ph.D. (Nursing) (Michigan)-1989.
	Hernandez, Cheri; RN, B.Sc.N., B.A., M.Ed. (Windsor), Ph.D. (Toronto), Ph.D. (Case Western Reserve)-1997.
	Fox, Susan M.; RN, B.N. (Memorial), M.Sc.N. (Western Ontario), Ph.D. (Nursing) (Wayne State)-2000.
	Thrasher, Christine; RN(EC), B.Sc.N., B.A. (Windsor), M.Sc.N. (D'Youville), Primary Care Nurse Practitioner Certificate (Ryerson), Ph.D. (Nursing) (McMaster)-2001.
	El-Masri, Maher M.; RN, B.Sc.N. (Al-Quds), M.S. and Ph.D. (Nursing) (Maryland)-2002.
	<b>Assistant Professors</b>
	Williamson, Karen; RN, B.Sc.N (Toronto), M.Sc.N. (Toronto), Ph.D. (Nursing) (Toronto)-2001.
	de Witt, Lorna; RN, B.Sc.N. (Western Ontario), Ph.D. (McMaster)-2007.
	<b>Ancillary Academic Staff</b>
	Bornais, Judy; RN, B.A., B.Sc.N., M.Sc. (Western Ontario), C.D.E.-2007.
	<b>Adjunct Professors</b>
	Stamler, Lynnette Leeseberg; RN, B.S.N. (St. Olaf College), M.Ed. (Manitoba), Ph.D. (Cincinnati)-2004.

### **Adjunct Associate Professors**

Drake, Mary Louise; RN, Dip.P.H.N., B.Sc.N., B.A. (Windsor), Dip. in Midwifery (Great Britain), M.A. Nurs. Educ. (Detroit), Ed.D. (Wayne State)-1975 (retired faculty member, 2000).

### **Adjunct Assistant Professors**

Pickard, Jane; RN, B.A., M.Ed. (Western Ontario), M.N. (Alberta)-1990.

Edmunds, Kathryn; RN, B.A. (Windsor), B.N. (Manitoba), M.S.N. (Wayne State)-1996.

Haugh, Elizabeth B.; RN, B.A., B.Sc.N. (Windsor), M.Sc.N. (Western Ontario)-1996.

Kozell, Kathryn M.; RN, B.A. (Western Ontario), B.Sc.N. (Windsor), M.Sc.N. (Western Ontario), N.P. (Toronto), Certificate in Enterstomal Therapy-1999.

Groh, Eleanor; RN, B.Sc.N. (Windsor), M.Sc.A. Public Admin. (Central Michigan)-2000.

Kocela, Susan; RN, Hons. B.A., B.Sc.N., M.Sc. (Windsor)-2002.

Somers, Patricia; RN, B.A., B.Sc.N. (Windsor), M.Sc.N. (Western)-2004.

Tiessen, Barbara; RN, B.A. (Western Ontario), M.S.W. (Wilfred Laurier), M.Sc. (Administration) (Central Michigan), Dispute Resolution Certificates (Windsor)-2006.

Andrew, Jacqueline; RN, B.Sc.N., M.Sc.N. (Windsor)-2007.

Bradish, Grace; RN, B.Sc.N., B.A. (Windsor), M.Sc.N., A.C.N.P. (Western Ontario)-2007.

Evans, Marilyn; RN, B.Sc.N. (McMaster), M.N. (Alberta), Ph.D. (Nursing) (Alberta)-2007.

Myslik, Bonnie; RN(EC), B.Sc.N., B.A. (Windsor), M.Sc.N. (Western Ontario), A.C.N.P. Certificate (Toronto), Primary Health Care N.P. Certificate (Windsor)-2007.

### **Sessional Lecturers**

Chick, Mary; RN, B.Sc.N., M.Sc. (Nursing)

Cole, Mary; RN, D.P.H.N., B.A., B.Sc.N., M.Sc. (Nursing)

Foley, Kathy; RN, B.Sc.N., M.Sc. (Nursing)

McKay, Pat; RN, B.Sc.N., M.Sc. (Nursing)

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## PHILOSOPHY

(Ext. 2317)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Pinto, Robert C.; B.A., M.A., Ph.D. (Toronto)-1963.

Johnson, Ralph Henry; B.A. (Xavier), M.A., Ph.D. (Notre Dame), F.R.S.C.-1966. (retired University Professor)

Blair, John Anthony; B.A. (McGill), M.A. (Michigan)-1967. (retired University Professor)

Westra, Laura; B.A. (York), M.A., Ph.D. (Toronto)-1990.

#### Professor

Cook, Deborah; B.A., M.A. (Ottawa), Doct. 3e cycle (Sorbonne)-1989.

Tindale, Christopher W.; B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo)-2006.

#### Associate Professors

Hansen, Hans V.; B.A. (Lakehead), M.A. (Manitoba), M.A., Ph.D. (Wayne State)-2001.

Noonan, Jeffrey; B.A. (York), M.A., Ph.D. (McMaster)-2001. (Head of the Department)

Guarini, Marcello; B.A. (Windsor), M.A., Ph.D. (Western Ontario)-2002.

Rose, Philip; B.A. (Memorial), M.A., Ph.D. (Queen's)-2002.

#### Assistant Professors

Hundleby, Catherine; B.A. (Toronto), M.A. (Guelph), Ph.D. (Western Ontario)-2003.

Neculau, Radu; M.A. (New School for Social Research, New York), Dr.phil. (Clausenbeurg), Ph.D. (NSSR, New York) - 2007.

#### Sessional Lecturer

Parr, Katharine E.; B.A., M.A., M.Ed. (Windsor)-1982.

#### Cross-Appointment

Conklin, William E.; B.A. (Toronto), M.Sc. (L.S.E., London), LL.B. (Toronto), LL.M. (Columbia), Ph.D. (York), of Osgoode Hall, Barrister-at-Law-1977.

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## PHYSICS

(Ext. 2647)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Krause, Lucjan; B.Sc. (London), M.A., Ph.D. (Toronto), D.Sc. (London; Nicholas Copernicus), F.Inst.P.-1958.

Holuj, Frank; B.Sc. (London), M.Sc., Ph.D. (McMaster)-1961.

Van Wijngaarden, Arie; B.Sc., Ph.D. (McMaster)-1961.

Szamosi, Geza; Ph.D., D.Sc. (Budapest)-1964.

Czajkowski, Mieczyslaw; M.Sc., D.Sc. (Nicholas Copernicus)-1967.

Schlesinger, Mordechai; M.Sc., Ph.D. (Jerusalem), F.Inst.P.-1968.

Baylis, William Eric; B.S. (Duke), M.S. (Illinois), D.Sc. (Technical University of Munich)-1969.

McConkey, John William; B.Sc., Ph.D. (Queen's University of Belfast), F.Inst.P., F.R.S.C.-1970. (Killam Research Fellow, 1986-1988).

Glass, Edward N.; B.S. (Carnegie-Mellon), M.S., Ph.D. (Syracuse)-1974.

#### University Professors

Drake, Gordon W. F.; B.Sc. (McGill), M.Sc. (Western Ontario), Ph.D. (York), F.Inst.P., F.R.S.C.-1969. (Killam Research Fellow, 1990-1992) (Head of the Department)

Maev, Roman G.; B.Sc. (Moscow Physical Engineering Institute), M.Sc. (Moscow Physical Technical University), Ph.D. (Lebedev)-1995.

#### Professors

Atkinson, John Brian; M.A., D. Phil. (Oxford)-1972.

#### Associate Professor

Maeva, Elena Yu.; B.Sc., M.Sc. (Mendeleev Institute of Chemical Technology), Ph.D. (Institute of Chemical Physics, Russian Academy of Science)-2001.

Reddish, Timothy John; B.Sc., Dipl. Adv. Stud. Sci., Ph.D. (Manchester University)-2003.

#### Assistant Professors

Kedzierski, Wladyslaw; M.Sc., Ph.D. (Jagiellonian University), D.Sc. (Nicholas Copernicus)-2002.

Kim, Eugene Hubert; B.Sc. (Illinois), M.A., Ph.D. (California)-1999.

Rangan, Chitra; B.Sc. (Madras), M.Sc. (Indian Inst. of Technology, Madras), Ph.D. (Louisiana State U)-2000.

#### Adjunct Professors

Snyder, Dexter Dean; B.A. (Wabash), Ph.D. (Massachusetts Inst. Technology)-1995.

#### Cross-Appointment

Aroca, Ricardo; B.Sc. (Chile), Ph.D. (Moscow State), D.Sc. (Leningrad)-1985.

Schurko, Robert W.; B.Sc., M.Sc. (Manitoba), Ph.D. (Dalhousie)-2000.

Wang, Jichang; B.Sc. (Tsinghua), Ph.D. (Copenhagen)-2002.



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## POLITICAL SCIENCE

(Ext. 2348)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Nelson, Ralph Carl; B.A., M.A. (DePaul), Ph.D. (Notre Dame)-1961.

Wagenberg, Ronald H.; B.A., M.A. (Assumption), Ph.D. (London)-1963.

Briggs, E. Donald; B.A. (New Brunswick), Ph.D. (London)-1963.

Brown-John, C. Lloyd; B.A. (British Columbia), M.A., Ph.D. (Toronto)-1968.

Soderlund, Walter C.; B.A. (Connecticut), M.A., Ph.D. (Michigan)-1968.

Stebelsky, Ihor; B.A., M.A. (Toronto), Ph.D. (Washington) -1968

Wurfel, David; B.A. (San Diego), M.A. (California), Ph.D. (Cornell)-1968.

Keenleyside, Terence A.; B.A. (Toronto), Ph.D. (London)-1971.

Boase, Joan P.; B.Sc. (Toronto), M.A., Ph.D. (York)—1988.

Pawley, Howard; B.A. (Winnipeg), LL.B. (Manitoba), LL.D. (Windsor), Q.C., P.C.-1991.

#### Professors

Amore, Roy C.; B.A. (Ohio), B.D. (Drew), Ph.D. (Columbia)-1970.

Brooks, Stephen; B.A., M.A. (Windsor), Ph.D. (Carleton)-1985.

#### Associate Professors

Lee, Martha; B.A., M.A. (Calgary), Ph.D. (Syracuse)-1992.

MacIvor, Heather; B.A. (Dalhousie/King's), M.A. (Queen's), M.Sc. (London), Ph.D. (Queen's)-1992.

Sutcliffe, John; M.A. (Edinburgh), M.A. (Calgary), Ph.D. (Cambridge)-2000.

Miljan, Lydia; B.A., M.A., Ph.D. (Calgary)-2001.

Richter, Andrew; B.A., M.A. (Carleton), Ph.D. (York)-2001.

Lanoszka, Anna; B.A. (Carleton), M.A., Ph.D. (Dalhousie)-2002.

Najem, Tom P.; B.A., M.A. (Windsor), Ph.D. (Durham)-2002. (Head of Department)

Sidahmed, Abdel Salam; B.A., M.A. (Khartoum), Ph.D. (Charles University)-2005.

#### Assistant Professors

McIntyre, Chris; B.A., M.A. (Windsor), Ph.D. (North Texas)-2003.

Donais, Timothy; B.J. (Carleton), M.A., Ph.D. (York)-2004.

Essex, Jamey; B.A. (Kentucky), M.A., Ph.D. (Syracuse)-2005.

#### Paul Martin Senior Scholar in International Diplomacy

Bell, Ambassador Michael-2005.

#### Adjunct Associate Professors

Burton, Bruce Edward; B.A., M.A. (Oxford), M.Soc.Sc. (Hague)-1966.

Price, Trevor; B.Sc. (London School of Economics), M.A. (Windsor), Ph.D. (Queen's)-1968.

Krause, Robert M.; B.A., M.A. (Windsor)-1970.

**Adjunct Assistant Professor**

Kelly, John F.; B.A. Ed. (Michigan), M.P.A. (Wayne State), J.D. (Michigan), Ph.D. (Wayne)-2002.

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## PSYCHOLOGY

(Ext. 2215)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Rourke, Byron P.; B.A. (Windsor), M.A., Ph.D. (Fordham)-1965.

Schneider, Frank W.; B.A. (Ohio Wesleyan), M.S. (Ohio), Ph.D. (Florida)-1968.

Frisch, Giora Ron; B.A. (City University, N.Y.), Ph.D. (Tennessee)-1969.

Kobasigawa, Akira; B.A., M.A. (George Peabody College), Ph.D. (Iowa)-1969.

Morf, Martin E.; B.A. (Acadia), M.A. (Dalhousie), Ph.D. (Western, Ontario) - 1969.

Auld, Frank; B.A. (Drew), M.A., Ph.D. (Yale)-1970.

Minton, Henry L.; B.A. (New York), M.A. (Southern Illinois), Ph.D. (Pennsylvania State)-1970.

McCabe, Ann E.; B.Sc. (St. Norbert College), M.S. (Iowa State), Ph.D. (Wisconsin)-1973.

#### Associate Professors Emeriti

Shore, Douglas L.; B.A., M.A., Ph.D. (Wayne State)-1985.

#### University Professor

Page, Stewart; B.A., M.A. (Western Ontario), Ph.D. (Toronto)-1981.

#### Professors

Cohen, Jerome S.; B.A. (Michigan State), M.A., Ph.D. (Wayne State)-1968.

Orr, R. Robert; B.A. (Valparaiso), M.A., Ph.D. (Iowa)-1969.

Lafreniere, Kathryn D.; B.A. (Windsor), M.A., Ph.D. (York)-1991.

Senn, Charlene Y.; B.Sc., M.Sc. (Calgary), Ph.D. (York)-1992.

Cramer, Kenneth M.; B.A., M.A., Ph.D. (Manitoba)-1998.

Paivio, Sandra C.; B.A., M.Ed. (Western Ontario), Ph.D. (York)-1998.

#### Associate Professors

Taub, Barry R.; B.A. (S.U.N.Y. Stony Brook), M.A., Ph.D. (Waterloo)-1972. (Director, Psychological Services Centre)

Porter, James E.; B.A. (Toronto), M.A. (Roosevelt), Ph.D. (Windsor)-1980. (Psychological Services Centre)

Voelker, Sylvia L.; B.A. (Indiana), M.A., Ph.D. (Wayne State)-1984.

Towson, Shelagh M.J.; B.A. (York), M.A. (Wisconsin), Ph.D. (Waterloo)-1985. (Head of the Department)

Thomas, Cheryl D.; B.A., M.A., Ph.D. (Simon Fraser)-1987.

Hakim-Larson, Julie A.; B.S. (Michigan State), M.S. (Eastern Michigan), Ph.D. (Wayne State)-1991.

Menna, Rosanne; B.A. (Brock), M.A., Ph.D. (Toronto)-1998.

Hibbard, Stephen; B.A. (Santa Clara), M.A. (California State), Ph.D. (Tennessee)-2000.

Buchanan, Lori; B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo)-2001.

Hart, Kenneth E.; B.A. (Laurentian), M.A. (Lakehead), Ph.D. (Houston)-2001.

Jarry, Josee L.; B.A. (Sherbrooke), M.Ps. (Montreal), Ph.D. (Toronto)-2001.

Kuo, Ben C.; B.A., M.Ed. (Toronto), Ph.D. (Nebraska at Lincoln)-2001.

Baird, Anne; B.Sc. (Duke); M.A., Ph.D. (Wayne State)-2003.

**Assistant Professors**

Casey, Joseph; B.A. (Windsor), M.A. (Carleton), Ph.D. (Windsor)-2000.

Gragg, Marcia; B.A. (Ottawa), M.A., Ph.D. (Windsor)-2002.

Kwantes, Catherine; B.A. (Calvin College), M.Sc. (Eastern Michigan), M.A., Ph.D. (Wayne State)-2002.

Jackson, Dennis L.; B.A., M.A., Ph.D. (Wichita State)-2003.

Sirois, Fuschia M.; Hons. B.Sc., Hons. B.A. (Ottawa), M.A., Ph.D. (Carleton)-2003.

Babb, Kimberley A.; B.A., M.A., Ph.D. (University of California, Irvine)-2004.

Scoboria, Alan; B.A. (Albion College), M.A., Ph.D. (Connecticut)-2004.

Abeare, Christopher A.; B.S. (University of Michigan, Flint), M.A., Ph.D. (Wayne State)-2005.

Fritz, Patti A.; B.A. (Michigan), M.A., Ph.D. (S.U.N.Y.)-2005.

Pascual-Leone, Antonio; B.A. (York), D.E.A. (Toulouse University, France), Ph.D. (York)-2005.

Chung-Yan, Gregory A.; B.A. (York), M.A., Ph.D. (Guelph)-2006.

Miller, Carlin J.; B.A. (Lexington), M.Ed. in Spec. Ed. (Nashville), M.Ed. in Ed. Psych., Ph.D. (Georgia)-2006.

Miller, Scott; B.A. (Baylor), M.S., Ph.D. (Georgia)-2006.

**Adjunct Associate Professors**

Broga, Mary; B.A. (Waterloo), M.A., Ph.D. (Western Ontario)-1987.

Rudzinski, Donald; B.A. (Illinois), M.A. (Roosevelt), Ph.D. (Windsor)-1991.

Fuerst, Darren; B.A. (York), M.A., Ph.D. (Windsor)-1994.

**Adjunct Assistant Professors**

Abrash, Donald; B.A., M.A., Ph.D. (Windsor)-1994.

Vokes, Ted; B.A. (York), M.A., Ph.D. (Windsor)-1999.

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## SOCIAL WORK

(Ext. 3064)

### OFFICERS OF INSTRUCTION

#### Professors Emeriti

Morrow, Harry M.; B.A., B.S.W., M.S.W. (British Columbia) - 1966

Taylor, Patricia Ann; B.A. (Assumption), B.S.W., M.S.W. (Toronto)-1968.

Kroeker, Bernhard J.; B.Ed. (Alberta), B.S.W., M.S.W. (Toronto)-1969.

Hansen, Forrest C.; B.A. (Alberta), B.S.W., M.S.W., Ph.D. (Toronto), 1971.

#### Professors

Gorey, Kevin M.; B.A., M.S.W., Ph.D. (S.U.N.Y. Buffalo)-1994.

Leslie, Donald R.; B.A. (Guelph), M.S.W. (British Columbia), Ph.D. (Georgia)-1994.

Angell, Brent G.; B.A. (Trent), M.S.W. (Wilfrid Laurier), Ph.D. (Case Western Reserve University)-2003. (Director of the School)

#### Associate Professors

Gallant, Wilfred A.; B.A. (St. Francis X.), M.S.W. (Maritime School of Social Work), Ed.D. (Wayne State), R.S.W.-1973.

Cassano, D. Rosemary; B.A., B.S.W., M.S.W., Ph.D. (Toronto), R.S.W.-1979.

Wright, Robin; B.A., B.S.W. (McMaster), M.S.W., Ph.D. (Toronto)-2007.

#### Assistant Professors

Calderwood, Kim; B.A. (Waterloo), M.S.W. (Wilfrid Laurier), Ph.D. (Toronto), R.S.W.-2003.

Carter, M. Irene; B.A. (Toronto), B.Ed., M.Ed., M.S.W. (Dalhousie), Ph.D. (Calgary)-2005.

Kvarfordt, Connie; B.S., M.Ed. (Utah), M.S.W. (University of Wisconsin- Milwaukee), Ph.D. (Virginia Commonwealth University)-2005.

Barrett, Betty; B.S.W (Virginia Commonwealth), M.S.S.W (Wisconsin, Madison), Ph.D. (Wisconsin, Madison)-2006.

Park, Wansoo; B.A. (Yonsei), M.S.W (Ohio State), PhD (South Carolina)-2006.

Yun, Sung Hyun; B.A. (Pusan), M.S.W. (South Carolina)-2006.

Damianakis, Thecla; B.S.W., M.S.W. (McMaster), Ph.D (Toronto)-2007.

Grant, Jill; B.A. (Western), B.Ed. (Western), M.S.W. (Wilfrid Laurier), Ph.D (Wilfrid Laurier)-2007.

Habibov, Nazim; M.Sc. (Azerbaijan), M.S.W. (Columbia)-2007.

Weaver, Robert; B.A. (Western), B.S.W. (Victoria), M.S.W. (Regina), Ph.D (Georgia)-2007.

#### Adjunct Professor

Anucha, Uzo; B.S.W., M.S.W. (York), Ph.D. (Wilfrid Laurier)-2003.

#### Field Administrator

Medcalf, Mary; B.S.W., M.S.W. (Windsor)-2002.

#### Field Liaison Specialists

McAvoy, Freida L.; B.A., M.S.W. (Wilfrid Laurier), R.S.W.-1999.

Taggart, Cheryl; B.S.W., M.S.W. (Wayne State), R.S.W.- 2006.

#### Field Education Instructors

Field placements are in Windsor, Essex County and Chatham-Kent.

**List of Field Instructors**

Lyris Anderson	Windsor Essex Children's Aid Society
Alice Baird	University of Windsor
Jane Baldwin	Help-Link Access Services
Carmela Battisti	Windsor-Essex County Housing Corp.
Lori Baxter	AIDS Committee of Windsor
Carolyn Binder	Glengarda Child and Family Services
Jennifer Boivin	Windsor Essex Children's Aid Society
Diana Bouffard	Windsor Regional Hospital- Western Campus
Catherine Boyce	Windsor Regional Hospital,
Christine Byrne	Richmond Terrace Nursing Home
Judy Carter	Alzheimer Society
Patricia Carter	Multicultural Council
Katie Catterson	Iris Residential Inns and Service
April Chapman	Windsor "Y" Residence
Rose Culmone	Big Brothers Big Sisters of Windsor Essex
Debra DiMario	Windsor Essex Children's Aid Society
Kim Diotte (Wallace)	Windsor Essex Children's Aid Society
Paul Dranchak	Windsor Essex Children's Aid Society
Jackie Duceder-Vanheule	Chatham-Kent Health Alliance
Debra Dumouchelle	Ministry of Community Safety & Correction
Loran Dutka	Windsor Essex Children's Aid Society
Carolyn Edwards	St. Clair Catholic District School Board
Liz Esposito	The Inn of Windsor - SALT Program
Liz Fleming	Regional Mental Health Care - ACT 1
Barry Furlonger	Downtown Mission
Kim Garant	Windsor Essex Children's Aid Society
Evelyn Giberson	Huron Lodge Municipal Home for Seniors
Shelley Gilbert	Glengarry Neighbourhood Information Centre
Lee Govette	Chatham-Kent Children's Services
Skip Graham	St. Leonard's House
Adelle Greco	Glengarda Child and Family Services,
Bob Hemstreet	Hiatus House
Terri Hogan	Big Brothers Big Sisters of Windsor Essex

Diane Holman	Canadian Hearing Society
Cheryl Huver	Windsor Regional Hospital - Western,
Barb Iacono	Citizen Advocacy
Iole Iadipaolo	New Canadian's Centre of Excellence
Vickie Iler	Richmond Terrace Nursing Home
Susan Kennedy	Windsor Essex Children's Aid Society
Anna Lafreniere	Canadian Mental Health Association,
Kim LaPorte	Windsor Essex Children's Aid Society,
Sherri Lebert	The Inn of Windsor
Carrie Lee	Maryvale Adolescent and Family Services
Jill LeGrand	Hotel-Dieu Grace Hospital,
Patricia Lescinsky	Windsor Regional Hospital - Met Campus
Mary Kaye Lucier	Bulimia Anorexia Nervosa Association
Dawn Makki	Windsor Essex Children's Aid Society
Bill Marcott	Windsor Regional Hospital,
Donna McKrow	Community Living Essex County
Colleen Mitchell	Information Windsor
Elizabeth Moorhouse	Catholic Family Services
Jennifer Moos	Windsor Essex Children's Aid Society
Tracy Moroze	Canadian Mental Health Association,
Marie Nesbitt	Malden Park Continuing Care Centre,
Joanne Park	House of Sophrosyne
Priti Patel	Windsor Essex Children's Aid Society
Paul Pethagoose	Can-Am Urban Native Homes
Michelle Pope	Ministry of Community Safety & Correction,
Dawn Price	Regional Mental Health Care - ACT 2
Leslie Price	Windsor Regional Hospital
Michelle Quaglia	Youth and Family Resource Network
Barbara Radford	Canadian Mental Health Association
Padmini Raju	Windsor Women Working with Immigrant Women
Jane Rance	Family Service, Kent
Blodwen Reitz	Ready, Set, Go!
Lisa Richardson	Chatham-Kent Children's Services
Cathe Robinson	Drouillard Place - Grandview Site
Jody Rogers	Maryvale Adolescent and Family Services

Scott Rogers	St. Clair Catholic District School Board
Marlyn Shervill	Windsor-Essex Brokerage for Personal Supports
Debra Stapley	Windsor-Essex Children's Aid Society
Stacey Slobodnik	Glengarda Child and Family Services,
Linda Souigny	Big Brothers Big Sisters of Windsor Essex
Shannon Stephenson	Chatham-Kent Health Alliance,
Jenny Stranges	Teen Health Centre
Darcy Thachuk	Windsor-Essex Children's Aid Society
Michelle Sullivan	Glengarda Child and Family Services,
Marcel Trepanier	Legal Assistance of Windsor
Kari Lee Vickers	Windsor Essex Children's Aid Society
Kerri Wallace	Windsor Essex Children's Aid Society
Judith Wheeler	InTouch Consulting
Linda Wilson	Salvation Army
Teri Woodrow	Windsor Regional Hospital



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## SOCIOLOGY AND ANTHROPOLOGY

(Ext. 2188)

OFFICERS OF INSTRUCTION

### SOCIOLOGY

#### Professors Emeriti

Ferguson, John D.; B.A., M.A. (Toronto), Ph.D. (Columbia)-1968.

Booth, Gerald V., B.A. (Victoria), M.A., Ph.D (Southern Illinois)-1975.

Hedley, Max J.; B.A. (York, Eng.), M.A., Ph.D. (Alberta)-1976.

#### University Professors

Adam, Barry D.; B.A. (Simon Fraser), M.A., Ph.D. (Toronto)-1976.

Maticka-Tyndale, Eleanor; B.A. (State University of New York, Binghamton), M.A. (McGill), Ph.D. (Calgary)-1993.

#### Professors

Ramcharan, Subhas; B.A., M.Sc. (U. of West Indies); Ph.D. (York)-1971.

Phipps, Alan G.; B.A. (Manchester), M.A. (Queen's), Ph.D. (Iowa), M.C.I.P.-1988.

Basok, Tanya; B.A., M.A., Ph.D. (York)-1989. (Director, Social Justice Studies)

Ilcan, Suzan M.; B.A. (Saint Mary's) M.A. (Dalhousie), Ph.D. (Carleton)-1994.

McDaniel, Susan. A.; B.A. (Massachusetts), M.A. (Cornell), Ph.D. (Alberta)-2004.

#### Associate Professors

Shuraydi, Muhammad; B.A. (American U. of Beirut), Ph.D. (Alberta)-1973.

Mogyorody, Veronika; B.A. (Windsor), M.A. (Wayne State), B.Arch. (Detroit), Ph.D. (Rensselaer)-1976.

Drakich, Janice; B.A., M.A. (Windsor), Ph.D. (York)-1989.

Gannagé, Charlene; B.A., M.A., Ph.D. (Toronto)-1992.

Hall, Alan; B.A. (Bishop's), M.A. (Guelph), Ph.D. (Toronto)-1994. (Program Chair, Labour Studies).

Lewis, Jacqueline; B.A., M.A., Ph.D. (Toronto)-1994.

Nakhaie, M. Reza; B.A. (National University of Iran), M.A. (Guelph), Ph.D. (Waterloo)-1997.

Lippert, Randy; B.A. (Lethbridge), M.A. (Ottawa), Ph.D. (British Columbia)-2000.

deLint, Willem; B.A., M.A., Ph.D. (Toronto)-2002.  
(Head of Department, July 1, 2007)

Mann, Ruth M.; B.A. (York), M.A., Ph.D. (Toronto)-2000.

O'Connor, Daniel; B.A., M.A. (Manitoba), Ph.D. (Carleton)-2000.

Arnold, Robert; B.A., M.A. (Saskatchewan), Ph.D. (McMaster)-2001.

#### Assistant Professors

Soulliere, Danielle; B.A., M.A. (Windsor), Ph.D. (Wayne State)-2001.

Deukmedjian, John E.; B.A. (Waterloo), M.A., Ph.D. (Toronto)-2003.

Omorodion, Francisca; B.A.(Hon) (McMaster), M.A. (Toronto), M.A. (Exeter), Ph.D. (Benin)-2003.

Cradock, Gerald; BA, MA (Simon Fraser), PhD (British Columbia)-2004.

Cheran, Rudhramoorthy; BA (Jaffna, Sri Lanka), MA (International Institute of Social Studies, The Hague, The Netherlands), PhD (York)-2005.

Engle, Karen J.; B.A. (Queens), M.A., Ph.D. (Alberta)-2006.

Fitzgerald, Amy J.; B.A., M.A. (Windsor), Ph.D. (Michigan State)-2006.

#### **Limited Term Appointment**

Bourouh, Omar; B.A. (Constantine, Algeria), M.A., Ph.D. (American University)-2007-08.

Kapac, Jack; B.A., M.A. (Manitoba), Ph.D. (Toronto)-2004-07.

Toews, David; B.A. (Waterloo), M.A. (Trent), Ph.D. (Warwick)-2006-09.

#### **ANTHROPOLOGY**

##### **Professor**

Phillips, Lynne; B.A. (British Columbia), M.A., Ph.D. (Toronto)-1989.

##### **Assistant Professors**

Reid, Peter E. W.; B.A. (Toronto), M.A. (Manitoba), Ph.D. (SUNY at Buffalo)-1976.

George, Glynis; B.A., M.A., Ph.D. (Toronto)-2000.

Albanese, John; B.A. (Western), M.A. (Toronto), Ph.D. (McMaster)- 2004.

Robertson, Leslie; B.A. (Simon Fraser), M.A. (Calgary), Ph.D. (British Columbia)-2005.

##### **Adjunct Associate Professors**

Marger, Martin; B.A. (Miami), M.S. (Florida), Ph.D. (Michigan State)-2002.

M'Closkey, Kathleen; B.A., M.A., (Windsor) , Ph.D. (York)-1997.

##### **Adjunct Assistant Professors**

Brophy, James; B.A. (Windsor), Ph.D. (Stirling University)-2001.

Keith, Margaret, B.A. (DeMontfort), Ph.D.(Stirling University)-2001.

Soni-Sinha, Urvashi; B.A. (Lady Shri Ram College, Delhi), M.A. (Delhi), Ph.D. (Warwick)-2002.

Luginaah, Isaac; B.Sc. (Cape Coast, Ghana), M.Sc. (Queen's University of Belfast), M.E.S. (York), Ph.D. (McMaster)-2004.

Zaidi, Arshia; B.A., M.A., (Windsor), Ph.D. (Wayne State)-2004.

Cassidy, Tanya; B.A., M.A. (Windsor), Ph.D. (Chicago)-2005.

Lacey, Anita; B.A., Ph.D. (Australia)-2006.

Culic, Irina, B.A. (Licenta), M.A. (New York), Ph.D. (Cluj-Napoca)-2007.

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## VISUAL ARTS

(Ext. 2828)

### OFFICERS OF INSTRUCTION

#### Professor Emeritus

Baxter&, Iain; B.Sc., M.Ed. (Idaho), M.F.A. (Washington State)-1988.

#### Professors

Gold/Smith, Susan B.; B.A., M.A. (Wayne State)-1970.

Francis Pelkey, Brenda; M.F.A. (Saskatchewan)-2003. (Director of the School)

#### Associate Professors

Farrell, Michael J.; B.A., M.A. (Florida State)-1968.

Law, William C.; B.F.A. (Atlanta School of Art), M.F.A. (Tulane)-1970.

MacDowall, Cyndra; B.A.E. (Queens), M.F.A. (Concordia)-2002.

Torinus, Sigi; B.A. (Academy of Art, Braunschweig, Germany), M.A. (Hameln, Germany), M.F.A. (San Francisco State U.)-2002.

#### Assistant Professors

Blatherwick, David; B.A.A. (Ryerson). M.A. (Quebec)-2004.

Rodney, Lee; B.F.A. (Nova Scotia College of Art and Design). M.F.A. (York), Ph.D. (Goldsmiths College, University of London)-2004.

#### Adjunct Associate Professors

Harding, Noel - 2004

Patten, James; B.A. (Toronto), M.A. (McGill) - 2007

#### Sessional Lecturers

Duck, Adèle; B.F.A. (Windsor), M.F.A. (Florida State)-1976.

Brown, Brian E.; B.F.A. (Windsor), M.F.A. (Southern Illinois)-1977.

Strickland, Rod; B.F.A. (Windsor), M.F.A. (Tennessee)-1984.

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## WOMENS STUDIES

(Ext. 2315)

### Program Chair:

Forrest, Anne; B.Sc., M.I.R. (Toronto), Ph.D. (Warwick)-1985. (Associate Professor, Odette School of Business.)

## CROSS APPOINTMENTS

### Assistant Professor

Hundleby, Catherine; B.A. (Toronto), M.A. (Guelph), Ph.D. (Western Ontario)-2003. (Cross-appointed with Philosophy)

## HYBRID APPOINTMENTS

### Professor

Senn, Charlene Y.; B.Sc., M.Sc. (Calgary), Ph.D. (York)-1992. (Hybrid-appointed with Psychology)

### Associate Professor

Simmons, Christina; A.B. (Radcliffe), M.A., Ph.D. (Brown)-1990. (Hybrid-appointed with History)

## PROGRAM ADVISORY MEMBERS

### Professors

Carty, Laurie; Reg.N., B.Sc.N., B.A., M.Ed. (Windsor), Ph.D. (Wayne State)-1980. (Professor, Nursing)

Milne, Pamela J.; B.A., M.A. (Windsor), Ph.D. (McGill)-1984. (Professor, Religious Studies)

Ilcan, Suzan M.; B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Carleton)-1994. (Professor, Sociology)

### Associate Professors

Holman, Margery J.; B.A., B.P.H.E. (Windsor), M.Ed. (Wayne State), Ph.D. (Michigan State)-1970. (Associate Professor, Kinesiology)

Mogyorody, Veronika; B.A. (Windsor), M.A. (Wayne State), B.Arch. (Detroit), Ph.D. (Rensselaer)-1976. (Associate Professor, Sociology)

Cassano, D. Rosemary; B.A., B.S.W., M.S.W., Ph.D. (Toronto), R.S.W.- 1979. (Associate Professor, Social Work)

Drakich, Janice; B.A., M.A. (Windsor), Ph.D. (York)-1989. (Associate Professor, Sociology)

Straus, Barrie Ruth; B.A. (Oregon), M.A., Ph.D. (Iowa)-1990. (Associate Professor, English)

Egbo, Benedicta O.; B.Ed., Dip.Ed. (Alberta), M.A., Ph.D. (Toronto)-1998. (Associate Professor, Education)

Kane, Deborah; Reg.N., B.Sc.N. (Windsor), M.Sc.N. (Western Ontario), Ph.D. (Michigan)-2003. (Associate Professor, Nursing)

### Assistant Professors

Davison, Carol Margaret; B.A. (Concordia), M.A. (York), Ph.D. (McGill)-2000. (Assistant Professor, English)

George, Glynis; B.A. M.A., Ph.D. (Toronto)-2000. (Assistant Professor, Anthropology)

Holbrook, Susan; B.A. (Victoria), M.A., Ph.D. (Calgary)-2000. (Assistant Professor, English)

Luft, Joanna; B.A., M.A. (Wilfrid Laurier), Ph.D. (McMaster)-2005. (Assistant Professor, English)

Barrett, Betty Jo; M.S.W., Ph.D. (Wisconsin)-2006. (Assistant Professor, Social Work)

### Sessional Lecturer

Parr, Katherine E.; B.A., M.A., M.Ed. (Windsor)-1982. (Sessional Lecturer, Philosophy)

### Librarian

Kaay, Anne; Social Sciences Librarian, subject specialist for Women's Studies.

Other faculty teaching courses that fulfill the requirements for degree programs in Women's Studies are listed in the "Officers of Instruction" for many different areas of study in Arts, Languages, Social Sciences, Science, and Business.

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<b>Degree Title/OUAC Code/Program</b>	<b>OSS DIPLOMA ADMISSION CRITERIA, Course Requirements, Supplemental Applications, Interviews, Auditions</b>
<p>All programs require a minimum admission average which may change, depending on the number of applicants. A second average is considered for students applying to Computer Science, Forensic Science, Mathematics, Engineering, Science and Nursing programs. The minimum second average is approximately 70%.</p> <p><u>*Limited Enrolment</u></p> <p><u>**Combined Programs Only</u></p> <p>Calculation of Secondary Averages All programs require a minimum admission average which may change, depending on the number of applicants. A second average is considered for students applying for the following programs: Computer Science/Math - average of math courses (70%) Nursing - average of chemistry and biology (70%) Engineering - average of all math and science courses except biology (74%) Science - average of all attempted science and math courses excluding data management (70%). Physics will be considered if taken. Forensics - average of all required science and math courses (70%)</p>	<ul style="list-style-type: none"> <li>• The OSS Diploma and six Grade 12 "U" or "M" courses, including ENG4U. Other requirements listed below.</li> </ul>
<p><b>Bachelor of Arts, B.A. (General Programs)</b> Anthropology, Art History, Classical Civilization, Classics and Modern Languages, Communication Studies, Drama, English Language and Literature, Family &amp; Social Relations, French Studies, Interdisciplinary Studies (Lambton College), Labour Studies, Liberal and Professional Studies, Modern Languages and Second Language Education, Modern Languages (German, Italian, Spanish), Philosophy, Political Science, Psychology, Sociology, Visual Arts, Women's Studies, Undeclared.</p>	<ul style="list-style-type: none"> <li>• ENG4U required.</li> <li>• French majors require F**4U.</li> <li>• Majors in all other languages do not require prior high school language courses and will be assessed and placed appropriately on program entrance.</li> </ul>
<p><b>Bachelor of Arts, B.A. (Honours programs)</b> Anthropology, Classical Civilization, Communication Studies, Developmental Psychology, Diaspora Studies **, Drama, English Language and Literature, Family &amp; Social Relations, French Studies, History, Labour Studies**, Language and Logic**, Modern Languages and Second Language Education, Modern Languages**, Music, Philosophy, Political Science, Psychology, Social Justice**, Sociology, Visual Arts, Women's Studies, Undeclared. Criminology Honours Sociology and Criminology Drama in Education and Community Drama and Communication Studies English Literature and Creative Writing International Relations and Developmental Studies Language and Logic** Visual Arts and Art History Visual Arts and Communication Studies</p>	<ul style="list-style-type: none"> <li>• ENG4U required.</li> <li>• French majors may require F**4U.</li> <li>• Majors in all other languages do not require prior high school language courses and will be assessed and placed appropriately on program entrance.</li> <li>• Criminology and Social Work students re-apply for admission to Year 3.</li> <li>• EWC4U is recommended for Creative Writing majors.</li> <li>• Students may choose to double major in any BA Honours program.</li> </ul>
<p>Concurrent B.A. French Studies/Bachelor of Education</p> <p>Concurrent Bachelor of Arts/Bachelor of Education/Diploma in Early Childhood Education</p>	<ul style="list-style-type: none"> <li>• Combined B.A.(French)/B.Ed: Admission requires ENG4U and F**4U. Individual grades in Grade 12 "U" and Grade 11 French are also used for admission. Admission requires completion and submission of an experience profile.</li> <li>• Combined B.A./B.Ed./E.C.E.: ENG4U is required. Supplemental application materials are sent automatically upon receipt of OUAC application. Admission requires completion and submission of a student profile.</li> </ul>
<p><b>Bachelor of Social Work, B.S.W.</b> Social Work Social Work and Women's Studies Social Work and Diaspora Studies</p>	<ul style="list-style-type: none"> <li>• ENG4U required.</li> <li>• Social Work student re-apply for admissions to Year 3.</li> </ul>
<p><b>Bachelor of Fine Arts, B.F.A.</b> Acting* Visual Arts</p> <p><b>Bachelor of Music, B.Mus.</b> Music*</p> <p><b>Bachelor of Music Therapy, B.Mus.Th.</b> Music Therapy*</p>	<ul style="list-style-type: none"> <li>• ENG4U required, supplemental application is sent automatically to Music and Acting applicants upon receipt of OUAC application.</li> <li>• A portfolio is not required for admission to our B.F.A. Visual Arts program. However, admission to Year 3 is based on a successful portfolio evaluation.</li> <li>• Auditions for B.F.A. Acting are held in Windsor and Toronto. Please contact Dramatic Art at Ext. 2804 for final dates or visit <a href="http://www.uwindsor.ca/drama">www.uwindsor.ca/drama</a>.</li> <li>• Music: Audition required for admission. Please contact Music at Ext. 2780 (or visit <a href="http://www.uwindsor.ca/music">www.uwindsor.ca/music</a>) for dates for music auditions.</li> </ul>
<p><b>Bachelor of Forensic Science, BFS (4 years)</b> Forensic Science</p>	<ul style="list-style-type: none"> <li>• ENG4U, SBI4U, SCH4U and, MHF4U. MCV4U is strongly recommended. Forensic Science students must re-apply for admission to Year 3.</li> </ul>
<p><b>Bachelor of Arts in Forensics and Criminology, B.A. (Honours)</b> Forensics and Criminology</p>	<ul style="list-style-type: none"> <li>• ENG4U, SBI4U and, MHF4U. MCV4U is strongly recommended. Forensics and Criminology students must re-apply for admission to Year 3.</li> </ul>
<p><b>Bachelor of Arts and Science, BAS</b> Arts and Science</p>	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two from SB14U, SCH4U, or SPH4U. MCV4U is strongly recommended.</li> </ul>
<p><b>Bachelor of Applied Science, B.A.Sc.</b> Undecided Engineering – Civil Engineering – Electrical and Computer</p>	

Engineering – Environmental Engineering – Industrial Engineering - Industrial (Automotive Manufacturing Systems option) Engineering - Industrial (Supply Chain option) Engineering – Mechanical Engineering – Mechanical (Automotive option) Engineering – Mechanical (Materials option) Engineering – Mechanical (Environmental Engineering option)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, SCH4U and SPH4U required. MCV4U is strongly recommended.</li> <li>Co-op available – apply during Year 1 at University of Windsor.</li> </ul>
<b>Bachelor of Human Kinetics, B.H.K.</b> Human Kinetics	<ul style="list-style-type: none"> <li>• ENG4U and SBI4U required.</li> <li>Specializations begin in third year in Movement Science or Leisure and Sport Management.</li> </ul>
<b>Bachelor of Science in Nursing, B.Sc.N.</b> Nursing*	<ul style="list-style-type: none"> <li>• ENG4U, SBI4U and SCH4U required. (One Grade 12 “U” Mathematics is recommended).</li> </ul>
<b>Bachelor of Arts, B.A.</b> Economics Economics (Honours program)	<ul style="list-style-type: none"> <li>• ENG4U is required. MHF4U is required for Honours Economics.</li> <li>MCV4U and MDM4U are strongly recommended for Honours Economics</li> </ul>
<b>Bachelor of Computer Science, B.C.S.</b> Computer Science (3-year program) Computer Science Co-op Computer Science (Honours program)  <b>Bachelor of Science, B.Sc.</b> Computer Science with Software Engineering Specialization Computer Science with Software Engineering Specialization Co-op Computer Information Systems Computer Information Systems Co-op	<ul style="list-style-type: none"> <li>• ENG4U, and MHF4U. MCV4U is strongly recommended.</li> </ul>
Biology Biology and Biotechnology Behaviour, Cognition and Neuroscience Environmental Biology (Co-op)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, SCH4U and SBI4U. MCV4U is strongly recommended.</li> <li>SPH4U is recommended.</li> </ul>
Biochemistry Biochemistry and Biotechnology	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, SCH4U and SBI4U. MCV4U is strongly recommended.</li> <li>SPH4U is recommended.</li> </ul>
Chemistry Chemistry and Physics	<ul style="list-style-type: none"> <li>• ENG4U, SCH4U, MHF4U, plus one of SPH4U or SBI4U. MCV4U is strongly recommended. SPH4U is recommended.</li> </ul>
Environmental Geoscience (Co-op) Environmental Geoscience Geology Geology (Co-op)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and SCH4U, and one of Biology or Physics. Biology is recommended. Calculus and Vectors is strongly recommended.</li> </ul>
Geoinformatics	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and one of SCH4U, SBI4U or SPH4U. SBI4U is recommended. MCV4U is strongly recommended.</li> </ul>
General Science (3-year program)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two of SCH4U, SBI4U or SPH4U is required. MCV4U is strongly recommended.</li> </ul>
Honours Mathematics (B.Math) General Mathematics (B.Math) Mathematics & Statistics (B.Math) Mathematics and Computer Science (B.Math)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and MCV4U is required. SPH4U is recommended.</li> </ul>
B.O.R. Honours Operations Research (Co-op)  Concurrent Bachelor of Math/Bachelor of Education	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and MCV4U are required. SPH4U is recommended.</li> <li>• Admission requires completion and submission of an experience profile.</li> </ul>
Physics and High Technology (Fast-Track) Physics and High Technology (Co-op) Physics and Computer Science	<ul style="list-style-type: none"> <li>• ENG4U, and MHF4U are required. MCV4U is strongly recommended.</li> <li>SPH4U and SCH4U are recommended.</li> </ul>
Science, Technology and Society (3-year program)	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two of SBI4U, SCH4U and SPH4U are required. MCV4U is strongly recommended.</li> </ul>
Environmental Science	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and one of SCH4U, SBI4U or SPH4U is required. SBI4U is recommended. MCV4U is strongly recommended.</li> </ul>
Physical Geography	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two of SCH4U, SBI4U or SPH4U is required. SBI4U is recommended. MCV4U is strongly recommended.</li> </ul>
<b>Bachelor of Environmental Studies, B.E.S.</b> Environmental Studies	<ul style="list-style-type: none"> <li>• ENG4U is required.</li> </ul>
<b>Bachelor of Science, B.Sc.(Gen. Sci.)/ Medical Laboratory Science M.L.S. Diploma</b> General Science/Medical Laboratory Science	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, SBI4U, and SCH4U is required. MCV4U is strongly recommended.</li> </ul>
<b>Concurrent Bachelor of Science/Bachelor of Education</b> Science/Education*	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two of SCH4U, SBI4U or SPH4U is required. MCV4U is strongly recommended. Admission requires completion and submission of an experience profile.</li> </ul>
<b>Concurrent Bachelor of Science (Gen. Sci.)/Bachelor of Education, E.C.E.Diploma, B.Sc./B.Ed./E.C.E. Diploma</b> General Science/Education/Early Childhood Education 5 years*	<ul style="list-style-type: none"> <li>• ENG4U, MHF4U, and two of SCH4U, SBI4U or SPH4U is required. MCV4U is strongly recommended. Admission requires completion and submission of an experience profile.</li> </ul>
<b>Bachelor of Commerce, B.Comm.</b>	<ul style="list-style-type: none"> <li>• ENG4U and one Grade 12 “U” Mathematics required.</li> </ul>

Business Administration Business Administration Co-op	• ENG4U and one Grade 12 "U" Mathematics required. Student seeking advanced language placement must arrange with the French or Spanish language programs for this testing. Students granted advanced language placement must substitute electives for the languages courses for which they were given advanced standing.
International Business-French International Business-Spanish	
Business and Economics	• ENG4U and MHF4U are required. MCV4U is strongly recommended.
Business and Computer Science Business and Computer Science Co-op	• ENG4U and MHF4U are required. MCV4U is strongly recommended.
<b>Bachelor of Education, B.Ed.</b> <b>Bachelor of Laws, LL.B.</b>	No direct admission. No direct admission.

**ONTARIO SECONDARY SCHOOL ADMISSION REQUIREMENTS - FOR STUDENTS ENTERING AS OF FALL 2007**

<b>Degree Title/OUAC Code/Program</b>	<b>OSS DIPLOMA ADMISSION CRITERIA, Course Requirements, Supplemental Applications, Interviews, Auditions</b>
<p>All programs require a minimum admission average which may change, depending on the number of applicants. A second average is considered for students applying to Computer Science, Forensic Science, Mathematics, Engineering, Science and Nursing programs. The minimum second average is approximately 70%.</p> <p>*Limited Enrolment **Combined programs only</p> <p>Calculation of Secondary Averages All programs require a minimum admission average which may change, depending on the number of applicants. A second average is considered for students applying for the following programs: Computer Science/Math - average of math courses (70%) Nursing - average of chemistry and biology (70%) Engineering - average of all math and science courses except biology (74%) Science - average of all attempted science and math courses excluding data management (70%). Physics will be considered if taken. Forensics - average of all required science and math courses (70%)</p>	<p>• The OSS and six Grade 12 "U" or "M" courses, including Grade 12 "U" English 1. Other requirements listed below.</p>
<p><b>Bachelor of Arts, B.A. (General Programs)</b> [NA] Anthropology, Art History, Classical Civilization, Classics and Modern Languages, Communication Studies, Drama, English Language and Literature, Family &amp; Social Relations, French Studies, Interdisciplinary Studies (Lambton College), Labour Studies, Liberal and Professional Studies, Modern Languages and Second Language Education, Modern Languages (German, Italian, Spanish), Modern Languages and Multicultural Studies, Multicultural Studies, Philosophy, Political Science, Psychology, Sociology, Visual Arts, Women's Studies, Undeclared.</p>	<p>• Grade 12 "U" English 1 required. • French majors require Grade 12 "U" French or the equivalent (such as College Coreal High School equivalency French courses in order to be accepted.) • Majors in all other languages do not require prior high school language courses and will be assessed and placed appropriately on program entrance.</p>
<p><b>Bachelor of Arts, B.A. (Honours programs)</b> [NAH] Anthropology, Classical Civilization, Communication Studies, Developmental Psychology, Diaspora Studies **, Drama, English Language and Literature, Family &amp; Social Relations, French Studies, History, Labour Studies**, Modern languages and Second Language Education, Modern Languages and Second Language Education, Modern Languages**, Music**, Philosophy, Political Science, Psychology, Social Justice**, Sociology, Visual Arts**, Women's Studies, Undeclared. [NCR] Criminology [NCS] Honours Sociology and Criminology [NDC] Drama in Education and Community [NDS] Drama and Communication Studies [NAW] English Literature and Creative Writing [NJI] International Relations and Developmental Studies [NAL] Language and Logic** [NFA] Visual Arts and Art History [NFV] Visual Arts and Communication Studies</p>	<p>• Grade 12 "U" English 1 required. • French majors may require Grade 12 "U" French or the equivalent (such as College Coreal High School equivalency French courses in order to be accepted.) • Majors in all other languages do not require prior high school language courses and will be assessed and placed appropriately on program entrance. • Criminology and Social Work students re-apply for admission to Year 3. • Grade 12 "U" Writer's Craft is recommended for Creative Writing majors. • Students may choose to double major in any BA Honours program.</p>
<p>[NFE] Concurrent B.A. French Studies/Bachelor of Education</p> <p>[NAE] Concurrent Bachelor of Arts/Bachelor of Education/Diploma in Early Childhood Education</p>	<p>• Combined B.A.(French)/B.Ed: Admission requires Grade 12 "U" English 1 and Grade 12 "U" French. Individual grades in Grade 12 "U" and Grade 11 French are also used for admission. Admission requires completion and submission of an experience profile.</p> <p>• Combined B.A./B.Ed./E.C.E. supplemental application materials are sent automatically upon receipt of OUAC application. •Admission requires completion and submission of an experience profile.</p>
<p><b>Bachelor of Social Work, B.S.W.</b> [NW] Social Work [NWW] Social Work + Women's Studies [NWD] Social Work and Diaspora Studies</p>	<p>• Grade 12 "U" English 1 required. • Social Work student re-apply for admissions to Year 3.</p>
<p><b>Bachelor of Fine Arts, B.F.A.</b> [ND] Acting [NF] Visual Arts</p> <p><b>Bachelor of Music, B.Mus.</b> [NM] Music</p> <p><b>Bachelor of Music Therapy, B.Mus.Th.</b> [NMT] Music Therapy</p>	<p>• Grade 12 "U" English 1 required, supplemental application is sent automatically upon receipt of OUAC application. • A portfolio is not required for admission to our B.F.A. Visual Arts program. However, admission to Year 3 is based on a successful portfolio evaluation. • Auditions for B.F.A. Acting are held in Windsor and Toronto. Please contact Dramatic Art at Ext. 2804 for final dates or visit <a href="http://www.uwindsor.ca/drama">www.uwindsor.ca/drama</a>. • Music: Audition required for admission. Please contact Music at Ext. 2780 (or visit <a href="http://www.uwindsor.ca/music">www.uwindsor.ca/music</a>) for dates for music auditions.</p>



<p><b>Bachelor of Forensic Science, BFS</b> [NFS] Forensic Science</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English I, Biology, Chemistry and, Advanced Functions and Introductory Calculus. Forensic Science students must re-apply for admission to Year 3.</li> </ul>
<p><b>Bachelor of Arts in Forensics and Criminology, B.A. (Honours)</b> [NAF] Forensics and Criminology</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English I, Biology and, Advanced Functions and Introductory Calculus. Forensics and Criminology students must re-apply for admission to Year 3.</li> </ul>
<p><b>Bachelor of Arts and Science, BAS</b> [NAS] Arts and Science</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English I, two from Biology, Chemistry, or Physics, and Advanced Functions and Introductory Calculus.</li> </ul>
<p><b>Bachelor of Applied Science, B.A.Sc.</b> [NE] Undecided [NEB] Engineering – Civil [NEN] Engineering – Electrical [NEF] Engineering – Electrical (Communications option) [NEE] Engineering – Electrical (Electronics option) [NEC] Engineering – Electrical (Computer option) [NEK] Engineering – Environmental [NEH] Engineering – Industrial [NEM] Engineering - Industrial (Automotive Manufacturing Systems option) [NES] Engineering - Industrial (Supply Chain option) [NEJ] Engineering – Mechanical [NEA] Engineering – Mechanical (Automotive option) [NEL] Engineering – Mechanical (Materials option) [NEO] Engineering – Mechanical (Environmental Engineering option)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus, Chemistry and Physics required. Geometry and Discrete Mathematics is highly recommended.</li> <li>Co-op available – apply during Year 1 at University of Windsor.</li> </ul>
<p><b>Bachelor of Human Kinetics, B.H.K.</b> [NP] Human Kinetics</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1 and Biology required.</li> <li>Specializations being in third year in Movement Science or Leisure and Sport Management.</li> </ul>
<p><b>Bachelor of Science in Nursing, B.Sc.N.</b> [NN] Nursing</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Biology and Chemistry required. (One Grade 12 "U" Mathematics is recommended).</li> </ul>
<p><b>Bachelor of Arts, B.A.</b> [NA] Economics [NAH] Economics (Honours program)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1 required (for Honours Economics), Grade 12 "U" Advanced Functions and Introductory Calculus is required.</li> </ul>
<p><b>Bachelor of Computer Science, B.C.S.</b> [NT] Computer Science (3-year program) [NTC] Computer Science Co-op [NTH] Computer Science (Honours program)</p> <p><b>Bachelor of Science, B.Sc.</b> [NSS] Computer Science with Software Engineering Specialization [NSU] Computer Science with Software Engineering Specialization Co-op [NSI] Computer Information Systems [NSJ] Computer Information Systems Co-op</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Grade 12 "U" Advanced Functions and Introductory Calculus, Geometry and Discrete Mathematics.</li> </ul>
<p>[NSB] Biology [NBU] Biology and Biotechnology [NSX] Behaviour, Cognition and Neuroscience [NSL] Environmental Biology (Co-op)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus, Chemistry and Biology. (Physics is recommended).</li> </ul>
<p>[NSY] Biochemistry [NBT] Biochemistry and Biotechnology</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus, Chemistry and Biology. (Physics is recommended).</li> </ul>
<p>[NSC] Chemistry [NSK] Chemistry and Physics</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Chemistry, Advanced Functions and Introductory Calculus, Geometry and Discrete Mathematics plus one of Physics or Biology. (Physics is recommended.)</li> </ul>
<p>[NSV] Environmental Geoscience (Co-op) [NSG] Geology [NGC] Geology (Co-op)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Chemistry, and either Biology or Physics. (Geometry and Discrete Mathematics is also recommended. Biology is strongly recommended for Environmental Geoscience students).</li> </ul>
<p>[NGI] Geoinformatics</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus, Geometry and Discrete Mathematics, and one of Biology, Chemistry or Physics.</li> </ul>
<p>[NS] General Science (3-year program)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1 and Advanced Functions and Introductory Calculus required, and two of Biology, Chemistry, Geometry and Discrete Mathematics and Physics, Grade 11 "U" Functions and Relations recommended.</li> </ul>
<p>[NMH] Honours Mathematics (B.Math) [NMG] General Mathematics (B.Math) [NSM] Mathematics &amp; Statistics (B.Math) [NSZ] Mathematics and Computer Science (B.Math)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics. (Physics is recommended.)</li> </ul>
<p>[NOR] B.O.R. Honours Operations Research (Co-op)</p> <p>[NMS] Concurrent Bachelor of Math/Bachelor of Education</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics. (Physics is recommended.)</li> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics. (Physics is recommended.) Admission requires completion and submission of an experience profile.</li> </ul>
<p>[NSP] Physics and High Technology (Fast-Track) [NPT] Physics and High Technology (Co-op) [NSQ] Physics and Computer Science</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics. (Physics and Chemistry are recommended).</li> </ul>
<p>[NSO] Science, Technology and Society (3-year program)</p>	<ul style="list-style-type: none"> <li>Grade 12 "U" English 1, Advanced Functions and Introductory Calculus required, and two of Geometry and Discrete Mathematics, Biology, Chemistry and Physics.</li> </ul>

<p><b>[NSN]</b> Environmental Science <b>[NSH]</b> Physical Geography</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and two of Biology, Chemistry and Physics.</li> <li>• Biology and Chemistry are recommended for Environmental Science.</li> </ul>
<p><b>Bachelor of Environmental Studies, B.E.S.</b> <b>[NLS]</b> Environmental Studies</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1</li> </ul>
<p><b>Bachelor of Science, B.Sc.(Gen. Sci.)/ Medical Laboratory Science M.L.S. Diploma</b> <b>[NST]</b> General Science/Medical Laboratory Science</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1, Advanced Functions and Introductory Calculus, Biology, and Chemistry. (Grade 12 "U" Geometry and Discrete Mathematics and Grade 11 "U" Functions and Relations are recommended).</li> </ul>
<p><b>Concurrent Bachelor of Science/Bachelor of Education</b> <b>[NSE]</b> Science/Education</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and two of Geometry and Discrete Mathematics, Biology, Chemistry and Physics. (Grade 11 "U" Functions and Relations recommended).</li> <li>• If math is chosen as an area of emphasis, Grade 11 "U" Functions and Relations is required.</li> <li>• Admission requires completion and submission of an experience profile.</li> </ul>
<p><b>Concurrent Bachelor of Science (Gen. Sci.)/Bachelor of Education, E.C.E. Diploma, B.Sc./B.Ed./E.C.E. Diploma</b> <b>[NSF]</b> General Science/Education/Early Childhood Education</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and two of Geometry and Discrete Mathematics, Biology, Chemistry and Physics. (Grade 11 "U" Functions and Relations recommended).</li> <li>• If math is chosen as an area of emphasis, Grade 11 "U" Functions and Relations is required.</li> <li>• Admission requires completion and submission of an experience profile.</li> </ul>
<p><b>Bachelor of Commerce, B.Comm.</b> <b>[NC]</b> Business Administration <b>[NCE]</b> Business and Economics <b>[NCC]</b> Business Co-op</p> <p><b>[NCF]</b> International Business-French <b>[NCP]</b> International Business-Spanish</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1 and one Grade 12 "U" Mathematics required. (Recommended: Grade 12 "U" Data Management and Advanced Functions and Introductory Calculus.)</li> <li>• Grade 12 "U" English 1 and one Grade 12 "U" Mathematics required. Student seeking advanced language placement must arrange with the French or Spanish language programs for this testing. Students granted advanced language placement must substitute electives for the languages courses for which they were given advanced standing.</li> </ul>
<p><b>[NCD]</b> Business and Computer Science <b>[NCB]</b> Business and Computer Science Co-op</p>	<ul style="list-style-type: none"> <li>• Grade 12 "U" English 1, Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics are required.</li> </ul>
<p><b>Bachelor of Education, B.Ed.</b> <b>Bachelor of Laws, LL.B.</b></p>	<p>No direct admission. No direct admission.</p>

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## ADMISSION REQUIREMENTS FOR STUDENTS FROM OTHER CANADIAN PROVINCES

Applicants completing the following levels of education are considered equivalent to OSSD graduates.

Alberta	Grade 12
British Columbia	Grade 12
Manitoba	Grade 12
New Brunswick	Grade 12
Saskatchewan	Grade 12
Nova Scotia	Grade 12 or First Year at a Nova Scotia university after Junior Matriculation
Prince Edward Island	Grade 12
Newfoundland	Grade 12
Quebec	Grade 12 or completion of the first year of a General Program at a C.E.G.E.P. (minimum of 12 semester subjects)
Northwest Territories	Grade 12
Yukon	Grade 12

Subject requirements for specific programs equivalent to the Grade 12 "U" courses must be included in the above curricula.

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## ADMISSION REQUIREMENTS FOR STUDENTS FROM THE UNITED STATES

In order to qualify for admission an applicant must present scholastic records indicating good preparation and ability to undertake a university degree program. Graduates of accredited high schools will normally qualify for admission if the cumulative high school grade point average is 2.75 (B-) or above.

Each applicant must present scores from either the American College Testing Program Assessment (ACT) or the Scholastic Aptitude Test (SAT) offered by the College Entrance Examination Board. Advanced Placement Examinations in certain prerequisite subjects may also be required.

The student must receive a favourable recommendation from the high school Principal, and should rank in the upper third of the class.

Highly qualified applicants from the United States will be given acceptance after the second term marks of the final year of high school have been received if the applicant meets the admission requirements at that time, provided that the graduation certificate is presented.

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## ADMISSION REQUIREMENTS FOR STUDENTS COMING FROM OUTSIDE CANADA AND THE UNITED STATES

The minimum admission requirements for applicants to First Year are listed below.

Applicants from overseas must send the official documents of their secondary education indicating subjects taken and grades obtained. Notarized English translations are necessary if the documents are not in English. Photocopies are not accepted.

### United Kingdom and Commonwealth

Five Passes on the General Certificate of Education including two at the Advanced Level or, four passes on the General Certificate of Education, including three at the Advanced Level. A minimum grade of D is required in the Advanced Levels.

Science must include Advanced Level Mathematics, Physics and Chemistry.

Engineering must include Advanced Level Mathematics, Physics and Chemistry.

Nursing must include Advanced Level English, Biology and Chemistry.

Commerce must include Advanced Level Mathematics.

### Bangladesh

Higher Secondary Certificate/Intermediate Certificate.

### Central and South America

Senior Matriculation and/or completion of First Year at a recognized university depending upon country.

### China (PRC)

Senior High School Graduation Examination + Chinese National University Entrance Examinations.

### Europe

The Senior Matriculation Certificate as required by a recognized university in that country.

### India

All-India Senior School Certificate awarded by CBSE (after twelve years)/Indian School Certificate (awarded by ICSE).

### Malaysia

Sijil Tinggi Persekolahan Malaysia (STPM); Certificate of Unified Examination of the Malaysian Independent Chinese Secondary Schools System (MICSS).

### Pakistan

Intermediate/Higher Secondary School Certificate.

### Middle East

The Senior Matriculation Certificate as required by a recognized university in that country.

### Africa and Asia

Countries following the British System - Advanced level standing on the GCE or equivalent as listed under the United Kingdom.

Other African and Asian Countries - Senior Matriculation and/or completion of First Year at a recognized university depending upon country.

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## ADMISSION REQUIREMENT FOR STUDENTS WHO HAVE COMPLETED THE INTERNATIONAL BACCALAUREATE (IB) DIPLOMA PROGRAM

For admission to first Year: Full diploma must be completed with passes in six subjects with at least three at the Higher Level and with a grade total of at least 24 and no mark less than 4. In addition, the candidates must meet the prerequisites specific to the faculty to which they are seeking admission.

*For transfer credit:* IBD applicants who have successfully completed the full diploma with a grade total of 28 or more (exclusive of additional points which may be awarded for the successful completion of the Extended Essay and Theory of Knowledge) may be granted a general elective course credit, depending on program selection, for each Higher Level subject completed with a score of 5 (80-89%) or better, for a maximum of 4 general elective course credits.

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## ADMISSION REQUIREMENTS FOR MATURE STUDENTS

Applicants who do not meet the minimum academic requirements for admission to the University of Windsor may be eligible for consideration as mature students if they:

- 1) are Canadian citizens or permanent residents at the time of application,
- 2) will be at least 20 years of age prior to proposed date of enrollment,
- 3) have completed an Ontario Secondary School Diploma (OSS Diploma) or equivalent. (Applicants who have not completed an OSS Diploma or equivalent must submit a profile.),
- 4) have not been in full-time attendance at an educational institution within the previous two years.

Applicants must submit proof of age and official transcripts from their secondary school(s) and from any post-secondary institution which they may have attended. In addition, they must submit a letter of application outlining their career ambitions and why they expect to be successful in university studies, their work experiences, personal and professional development and training, and any other pertinent information, along with supporting documentation (where possible).

If the application and supporting documentation do not appear to suggest a reasonable probability for success in university studies, the applicant will be denied admission. Further consideration will be through the Office of the Registrar in consultation with the Dean of the applicant's intended Faculty whose decision will be final.

Applicants who previously attended a university and left in good academic standing will be able to apply under the University Transfer Regulations. Applicants who previously attended a university and left on academic probation or were required to withdraw may apply under the University Transfer Regulations or they may apply under the Mature Student policy, provided they fulfill the conditions listed above.

Successful applicants will be admitted as degree students. They are permitted to declare a major for which they are eligible, and they must obtain academic counselling before their initial registration.

Applicants who do not qualify for full-time degree programs may be considered for admission as part-time students.

Admission to many programs is competitive, and the University reserves the right to limit admission to such programs. Direct entry is available to most programs within the Faculty of Arts and Social Sciences, although some require specific grade 12 "U" or equivalent prerequisites. Auditions are required in Acting and Music programs. Programs within the Faculties of Science, Engineering, Human Kinetics, Nursing and the Odette School of Business Administration require prerequisite courses at the Grade 12 "U" or equivalent level and fulfillment of minimum average requirements in these required prerequisite courses.

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### Honours Criminology

The number of places available in the third year of the Criminology Honours program is limited, and admission will be competitive. Entry shall be for the Fall term only. Students are eligible to apply for entry into the criminology program only after completing twenty but no more than thirty courses. Applicants must have successfully completed the following courses: 48-101, 48-102, 48-202, 48-207, 48-260, 48-261, 48-262 and either 34-129 or 34-226. Applications and information sheets are available at the Office of the Registrar and must be returned to that office by May 1st. No late applications will be accepted. Decisions will be rendered by June 1st, with notification shortly thereafter.



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## ADMISSION REQUIREMENTS FOR YEAR III SECOND-ENTRY PROGRAMS

### Forensic Science

The number of places available in the third year of Forensic Science is limited, and admission will be competitive. Entry shall be for the Fall term only. Students are eligible to apply for entry into the Forensic Science program only after completing twenty but no more than thirty courses. Applicants must have successfully completed the following courses: 48-101, 55-140, 55-141, 59-140, 59-141, 65-250, 65-251, 43-287, 48-260, 48-262, 57-201, 62-140, 62-141. A minimum major average of 8.0 is required. Applications and information sheets are available at the Office of the Registrar and must be returned to that office by May 1st. No late applications will be accepted. Decisions will be rendered by June 1st, with notification shortly thereafter.

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## ADMISSION REQUIREMENTS FOR YEAR III SECOND-ENTRY PROGRAMS

### Forensics and Criminology

The number of places available in the third year of Forensic Science is limited, and admission will be competitive. Entry shall be for the Fall term only. Students are eligible to apply for entry into the Double Major program only after completing twenty but no more than thirty courses. Applicants must have successfully completed the following courses: 34-226, 48-101, 48-202, 55-141, 62-130, 49-112, 65-205 (or 02-205), 43-287, 48-260, 48-262, 57-201. A minimum major average of 8.0 is required. Applications and information sheets are available at the Office of the Registrar and must be returned to that office by May 1st. No late applications will be accepted. Decisions will be rendered by June 1st, with notification shortly thereafter.

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## ADMISSION REQUIREMENTS FOR YEAR III SECOND-ENTRY PROGRAMS

### Social Work

*Years 3 and 4:* A minimum of twenty courses (including four Social Work courses, a statistics course, two Science courses, and ten courses from Arts, Languages and Social Sciences) is required prior to admission to Year 3.

Admission to the professional program in Year 3 requires that students apply to the Office of the Registrar prior to February 1. Applications are available from the Office of the Registrar or the School of Social Work. A minimum average of 8.0 in Social Work courses is required. References must accompany the application. An interview may be required, and early applications are encouraged. Entry is for the next Fall term only, and enrollment is limited. Students who are accepted to Year 3 will be notified by the Office of the Registrar. Selection of candidates for admission will be based on grades and other relevant criteria determined by the Social Work Admissions Committee.

In preparation for application to the professional program in Year 3, students are strongly encouraged to engage in volunteer experiences in human services agencies and organizations in the community.

The Year 3 and 4 Social Work program is intended for full-time study. A full-time course load in years 3 and 4 is defined as 6 courses per term, including 2 placement courses per term. Students who are not able to attend on a full-time basis at any point after admission to the program must obtain written permission and seek advice from the School of Social Work.

Aboriginal peoples, persons with disabilities, and members of visible minorities are encouraged to apply.

Transfer from other programs: Applicants transferring from other programs will be assessed individually by the Office of the Registrar and are subject to the same admission procedure to Year 3 as outlined above.

Admission for University Graduates: University graduates with a three-year or General degree in Arts or Social Sciences with a minimum cumulative G.P.A. of 8.0 (70%), or an average of at least 8.0 in their last twenty courses taken, including at least one course in statistics or research methods, may be considered for admission to a two-year, four-semester program leading to a Bachelor of Social Work (B.S.W.) degree. Applicants should have volunteer or work experience in human service agencies and community organizations.

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### ADMISSION REQUIREMENTS FOR RETURNING STUDENTS

Since the overall number of spaces available in a program may be limited, previous registration does not guarantee re-admission to that or any other program if a student has interrupted his or her studies.

Students who have missed the Winter term must apply for re-admission to Intersession by April 1st; to Summer Session by June 1st; or to the Fall term by August 1st. Students who missed the Fall term must apply for re-admission to the Winter term by December 1st.

Individual programs may have other deadlines which will be indicated in the appropriate program section of this calendar.

Students applying for re-admission, and who are also requesting a change in program should refer to 2.4.16.

Students who have had an interruption of studies for a prolonged period will have their previous academic work assessed by the faculty concerned to determine whether credit may be retained in specific courses.

Students may apply for re-admission on the web using the Student Self Service page at <http://www.uwindsor.ca>.

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## ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS

An applicant who wishes to transfer (at any level) from another college or university must arrange for a complete transcript of record to be sent to the Office of the Registrar by each institution previously attended.

### From Another University

A student will normally be granted credit for any course which has been completed with a minimum C- (60%) standing at another Ontario university. The total number of credits granted will be dependent upon the individual program requirements of each faculty.

A transfer student will be required to complete at least one full year (ten semester courses) or the equivalent at this University before qualifying for a degree. Refer to each faculty section for the appropriate residency requirements.

A student who has been required to withdraw from his/her previous institution will not be accepted to the University of Windsor during the period of his/her disbarment. If a student is eligible to apply to another faculty or program at his/her previous university, the student is eligible to apply to a similar program at the University of Windsor. In any case, should the student's record be such that he/she would have been required to withdraw at the University of Windsor, he/she shall not be eligible for transfer unless authorized by the appropriate Academic Standing Committee.

Students transferring from another university shall not be given credit for those courses in which they have received a grade lower than C- (60%) unless authorized by the relevant Academic Standing Committee.

### From a College of Applied Arts and Technology

Applicants who have completed two years of a three-year program with a cumulative average of B (70%) will be considered for admission to First Year of an appropriate program. Applicants who have graduated from a two-year program with a cumulative average of B will be considered for admission to First Year of an appropriate program. Applicants who have graduated from a three-year program with a cumulative average of B will be considered for admission to Second Year of an appropriate program.

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## STATEMENT OF RESPONSIBILITY OF THE UNIVERSITY

1. The content of this Calendar is provided for the general guidance of the student and is not intended to make any contractual commitments therefor. The Calendar is accurate at the time of printing, but programs, courses, staffing, etc. are subject to change from time to time as deemed appropriate by the University of Windsor in order to fulfill its role and mission, or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and, unless specified otherwise, are effective when made. The official University of Windsor academic calendars are: the Undergraduate Web Calendar, the Graduate Web Calendar, and the Faculty of Law Calendar.

2. This Calendar represents the University of Windsor's best judgment and projection of the course of conduct of the University of Windsor during the periods addressed herein. It is subject to change due to forces beyond the University of Windsor's control or as deemed necessary by the University of Windsor in order to fulfill its educational objectives.

3. Advisors are provided to assist students in planning their academic programs. Advisors are not authorized to change established policy of the University of Windsor. Students are solely responsible for assuring that their academic programs comply with the policies of the University of Windsor. Any advice which is at variance with established policy must be confirmed by the appropriate Dean's Office.

4. Any tuition fees and/or other charges described herein are good faith projections for the academic year. They are, however, subject to change from one academic term to the next as deemed necessary by the University of Windsor in order to meet its financial commitments and to fulfill its role and mission.

5. There are other fees and charges which are attendant upon a student's matriculation at the University of Windsor. These fees or charges may be determined by contacting the University offices which administer the programs or activities in which the student intends to enroll or engage.

6. The University of Windsor reserves the right to terminate or modify program requirements, content, and the sequence of program offerings from term to term for educational reasons which it deems sufficient to warrant such actions.

Further, the University of Windsor reserves the right to terminate programs from term to term for financial or other reasons which it determines warrant such action. The content, schedule, requirements and means of presentation of courses may be changed at any time by the University of Windsor for educational reasons which it determines are sufficient to warrant such action. Programs, services, or other activities of the University of Windsor may be terminated at any time due to reasons beyond the control of the University of Windsor.

7. The course descriptions herein are based upon reasonable projections of faculty and faculty availability and appropriate curriculum considerations. The matters described are subject to change based upon changes in circumstances upon which these projections were based and as deemed necessary by the University of Windsor to fulfill its role and mission.

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## CLASSIFICATION OF STUDENTS

A full-time student is one who is registered in four or more undergraduate courses in a term.

A part-time student is one who is registered in fewer than four undergraduate courses in a term.

A regular student is one who has met the average requirements for admission or the minimum average requirements for continuation in his or her program of studies.

A conditioned student is one who, at the time of admission, does not have standing in a required subject or subjects.

A visiting student is one who registers and takes courses for credit for the purpose of transferring the credit to the university at which he or she was previously registered. Normally, visiting students are advised to have written permission from the home university in order to register for courses.

A special or non-degree student is one who is taking courses for credit but not proceeding to a degree at this University.

An audit student is one who attends (a) course(s) but does not receive any grade(s) or credit for the course(s) towards a degree. Such a student will not be allowed to write examinations and may not be graded in any way, but will be required to pay the regular fees for the course(s).

A student on academic probation is one who has not met the full admission requirements to a program or a student who, once admitted, has shown unsatisfactory progress at the conclusion of the previous term. (See the regulations pertaining to each faculty.)

Academic probation is removed if a student demonstrates satisfactory progress by the end of the probationary period. Normally, a student will be required to withdraw from a faculty if performance is not satisfactory at the conclusion of the academic probationary period.

For regulations pertaining to the possible readmission of students who have been required to withdraw, see the regulations pertaining to each faculty.

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## ACADEMIC ADVISING

The responsibility for becoming familiar and complying with the requirements for degrees and with academic regulations rests primarily with the student. Every student can access a "Degree Audit Report" on the Student Self Service page at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis) which reports a student's progress towards fulfilling degree requirements.

In addition, academic advising is strongly recommended for all students. Academic units provide individual assistance to students both in the selection of their programs of studies and in the choice of courses in keeping with program requirements. General questions normally should be addressed to the Associate Dean of the Faculty.

Students are strongly urged to seek course and program advising to ensure that they understand degree requirements. It is recognized that many students may not have decided on their major areas or on their final career goals prior to entering University. Consequently, it is not unusual for students to change their programs of study after taking several courses. Every effort is made to assist such students, within the limits of the requirements of the various programs.

Students who are considering program changes may request assistance from advisors within their proposed area of study. Application forms for a change of program are available on the web on the Student Self Service page at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis).

Students are required to have declared a major by the time they have successfully completed ten semester courses.



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## RESIDENCY REQUIREMENTS

The number of courses required for the attainment of any degree or certificate is indicated in each program. These requirements may be reduced through the transfer of credit from another university. However, a student will be required to complete successfully, at the University of Windsor, a minimum of ten courses (thirty semester hours) numbered 200 or higher to qualify for a degree from the University of Windsor, except in the Faculty of Business (see below). Residency requirements can be met by University of Windsor courses taken either on-campus, at off-campus sites or through Distance Education. These ten courses must include a minimum of six courses from the major course requirements to qualify for a three-year major degree or a minimum of ten courses from the major course requirements to qualify for a four-year Honours or Major or professional degree except in the Faculty of Engineering where a student must complete at least 50% of the total number of weighted units required for the Bachelor of Applied Science at the University of Windsor. Double majors are required to take a minimum of five courses at the 200 level or above from the major course requirements in each of the Majors at the University of Windsor.

In the Faculty of Business Administration a student will be required to complete successfully, at the University of Windsor, a minimum of:

- ten Business courses (thirty semester hours) numbered 300 or higher to qualify for a Bachelor of Commerce (Honours Business Administration) degree.
- eight Business courses (twenty-four semester hours) plus two Computer Science courses (six semester hours) numbered 300 or higher to qualify for a Bachelor of Commerce (Honours Business Administration and Computer Science) degree.
- eight Business courses (twenty-four semester hours) plus two Economics courses (six semester hours) numbered 300 or higher to qualify for a Bachelor of Commerce (Honours Business Administration and Economics) degree.
- eight Business courses (twenty-four semester hours) numbered 300 or higher, plus two language courses (six semester hours) numbered 200 or higher to qualify for a Bachelor of Commerce (Honours International Business) degree.
- As above, residency requirements can be met by University of Windsor courses taken either on-campus, at off-campus sites or through Distance Education. These ten courses must include a minimum of six courses from the major course requirements to qualify for a three-year major degree or a minimum of ten courses from the major course requirements to qualify for a four-year Honours or Major or professional degree.

A student will be required to complete successfully at the University of Windsor a minimum of five courses (fifteen semester hours) to qualify for a certificate offered in the Faculty of Arts and Social Sciences, with the exception of the certificate in North American Studies which requires the completion of four courses at the 200-level or above. To qualify for a certificate offered in the Odette School of Business, a student will be required to complete at the University of Windsor six courses (eighteen semester hours)

To qualify for a Minor, a minimum of three courses counting toward the Minor must be successfully completed at the University of Windsor.

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## ADVANCED STANDING

The granting of advanced standing reduces the total number of courses a student must complete for a degree.

*By Transfer:* A student who has successfully completed a course with a minimum grade of C- at a recognized institution of higher learning may be granted credit for that course. The grade will not be shown on the University of Windsor transcript. The transfer of credits from another institution will be evaluated by the Office of the Registrar in consultation with the appropriate academic unit. Students should begin this process as early as possible in order to ensure appropriate placement in their program. An official transcript (and translation, if necessary) and a copy of course descriptions should be submitted to the Office of the Registrar at the time of application. Students who feel that the evaluation of prior academic work is not appropriate must appeal their evaluation to the Office of the Registrar within one term after admission to their program of study.

*By Examination:* A student may acquire knowledge of the subject matter of a course in a manner which does not provide a basis for credit by transfer. Such a student may request to write an examination for advanced standing within one term after admission to a specific program. If such request is approved and the examination is administered, a minimum grade of C- is required for the granting of advanced standing. Success in such examinations will be recorded as "Advanced Standing by Examination" with the credit value of the course and a grade of "Pass". A student who is unsuccessful in attaining advanced standing after an initial examination will not be permitted a second attempt. Contact the Office of the Registrar for application forms and additional information.

*By Prior Learning Assessment:* A student may acquire knowledge of the subject matter of a course in a manner which does not provide a basis for credit by transfer. Such a student should contact the Prior Learning Assessment Co-ordinator in the Student Information Resource Centre for application forms and additional information within one term after admission to their program of study.

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## LETTERS OF PERMISSION

A student who wishes to take one or more courses of his or her program at another university must request a "Letter of Permission" in advance of registration to ensure that the course(s), if completed successfully, will be credited towards his or her degree program.

Application for a "Letter of Permission" will be made at the Office of the Registrar. Approval shall be based on the applicant's overall academic record, the appropriateness of the particular course to the applicant's program and on any other factors deemed relevant. Students on academic probation will not usually qualify for a "Letter of Permission". The appropriate fee will apply.

Following approval of the application, the Registrar shall issue a "Letter of Permission" to the applicant and the university concerned.

Upon completion of the course(s) the student must request the visited institution to submit an official transcript for any course(s) attempted to the Office of the Registrar. The course(s) successfully completed with a grade of C- or better will normally be credited towards the degree, but the grade(s) received will neither be recorded nor used in the calculation of University of Windsor averages.

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## ADDITIONAL UNDERGRADUATE DEGREES

An individual who wishes to pursue a second undergraduate degree must take the following steps:

1. (a) If one degree has already been conferred, a student must make application for admission and be admitted to the second degree program. This application is made for approval to pursue the second degree and will inform the student of the total number of courses required for it. This may be done by completing an *Application for Returning Students* form on SIS or by completing the form in the Office of the Registrar (Students wishing to rescind their first degree to lessen the number of courses required for the second degree, may do so at this time); OR

(b) If both degrees are being pursued at the same time, a student must complete a "Declaration of Second Degree" form in the Office of the Registrar to determine eligibility for the intended second degree and to be informed of the total number of courses required for it. This form should be completed as soon as the student has the intent to pursue more than one degree; AND

2. Fulfill all the specific requirements of each degree program including residency requirements as described see "Residency Requirements" as well as any program specific requirements (where appropriate); AND

3. Take the appropriate number of courses over and above the first degree by meeting the following additional degree requirements:

(a) Students with one general degree (B.A., B.Sc., B.C.S., B.Math., B.M.A.):

- may count a maximum of twenty courses toward a second general degree in a different area of study\*.
- may count a maximum of twenty courses toward a professional degree.\*\*
- may count a maximum of thirty courses toward an Honours degree in the same or different major.

(b) Students with one Honours degree in a single major (B.A., B.A.S., B.Sc., B.C.S., B.Math., B.F.A., B.O.R., B.F.S., B.E.S.)

- may count a maximum of twenty courses toward a general degree in a different area of study\*.
- may count a maximum of twenty courses toward a professional degree.\*\*
- may count a maximum of thirty courses toward a second Honours degree in a different area of study\*
- may not receive another Honours degree combining the area of study in their first Honours degree with another.

(c) Students with a previous degree in Music will be permitted to pursue a second degree in Music Therapy on the condition that they complete a minimum of 15 additional courses at least 10 of which must be taken at the University of Windsor at the 200-level or above.

(d) Students with one Honours degree with a double major (B.A., B.Sc., B.Math)

- may not receive a general degree with a major in either area of study from their first Honours degree.
- may count a maximum of thirty courses toward a second Honours degree in one of the same majors as the first degree provided that a minimum of eight courses in that major field are taken over and above the major courses used in the first degree.

(e) Students with one Professional degree (B.A.Sc., B. Comm., B.H.K., B.S.W., B.Sc.N., LL.B.)

- may count a maximum of twenty courses toward a general degree.\*\*
- may count a maximum of twenty courses toward a second professional degree in a different area of study.\*
- may count a maximum of thirty courses toward an Honours degree.

(f) Students with one Four Year Major degree (B.A., B.Sc.):

- may not receive an Honours degree in the same area of study. Students who improve their major average to qualify for the Honours designation may apply for the Honours degree provided they rescind their Major degree.

(g) Students who have completed a degree in Education through the consecutive pre-service program, or who have completed Education courses in a Concurrent program, may not count any of the Education courses toward another degree.

(h) Students who have completed the Bachelor of Business Studies (General) Accounting Track degree would be required to take an additional seven courses in order to obtain a Bachelor of Commerce (Honours Business Administration) degree. Students may retain only one of these degrees.

(i) Students who have already been granted a second undergraduate degree as listed above, may only count a maximum of ten courses toward a third degree. These courses may not include the ones already counted for the second degree.

(j) Students may not use any courses used toward a minor in a first degree toward the major of a second degree unless the minor is rescinded from the first degree. Please see "*Minor*" for additional regulations concerning minors.

(k) Students with a graduate degree in one area of study may not receive a general or honours degree (single or combined) in the same area of study as the graduate degree.

\* The major of the second degree must be distinct from the major in the first degree. Therefore, in all cases, a student with an Honours degree cannot receive a general degree in the same major (eg if a student has already received an Honours

degree in English, that student cannot request admission nor receive a general degree in English). However there are instances where the majors are not the same but the requirements for the major include courses from the same subject area. To determine if two degrees can be awarded in these cases, the general rule is: if the first degree requires six or more courses in a subject area, then a general degree in a major that requires courses from that same subject area will not be allowed OR if the first degree requires eleven or more courses in a subject area, then an Honours degree in a major that requires courses from that same subject area will not be allowed.

\*\* Exceptions to this regulation are as follows: a student with any degree majoring in Economics may not receive an Honours B.Comm. in Business Administration and Economics and a student with any degree in Computer Science (including the B.Sc. degrees offered in Computer Science) may not receive an Honours B.Comm in Business Administration and Computer Science. These students may only be considered for the Bachelor of Commerce for University Graduates program which results in a B.Comm. Degree in Business Administration. Likewise, a student with an Honours degree in Business Administration and Economics or Business Administration and Computer Science may not receive a general degree in Economics or Computer Science respectively.

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## CERTIFICATE PROGRAMS

A Certificate is a non-degree program that encourages non-traditional entry to the University (including outside of discipline-based degree programs), recognizes special sets of skills and knowledge not necessarily based in a single discipline, or recognizes a focus or concentration of learning distinct from a full degree.

Students may be granted advanced standing for all of the courses from a certificate program towards the fulfillment of graduation requirements for a degree, and all of the courses from a degree program may be counted towards the requirements of a Certificate program in a different area of study, with the exception of Nursing.

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## DEFINITION OF COURSES AND SESSIONS

The word "course" generally refers to a 3.00 credit hour offering which is given over one term. Each term includes approximately thirteen weeks of classes. During each regular academic year (September to April), the Fall term runs from early September to early December and the Winter term runs from early January to mid-April. Each term concludes with final examinations. Additionally, the University schedules courses in a Summer term which includes Intersession (May - June) and Summer Session (July - August), each of which are approximately six weeks in duration. Courses given in these sessions carry the same credit as those in the Fall and Winter terms. Some courses offered in the Summer Term run from May - August (12 weeks).

In some areas, courses also may be offered for 1.50 credit hours, or for 6.00 credit hours. Courses of any credit hour value may be offered over multiple terms or over a part of a term.

In a few cases a course may be "linked" with another course in the sense that credit is granted only when both courses have been completed successfully. Course descriptions indicate "linked" courses. Unless otherwise indicated, such courses must be taken in successive terms.

The time required to complete programs can vary according to the student's choice. If courses are taken exclusively in the Fall and Winter terms, a general degree normally is completed in three years and a four-year Honours, Major or professional degree in four years of full-time study. Students may choose to accelerate their programs by attending Summer term, Intersession and/or Summer Session, or may spread their programs over a longer period by attending as part-time students. Some programs place a time limit on degree completion. Refer to individual Faculty and program regulations for such limits.

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## COURSE CONTENT

Information regarding the content and the hours of instruction per week for all courses is to be found in the individual subject area listings. The time schedule for classes can be obtained online at [www.uwindsor.ca/registrar/timetable](http://www.uwindsor.ca/registrar/timetable).

The University does not attempt to impose uniformity in methods of course presentation. Therefore, methods of course presentation vary and may involve lectures, lectures combined with class discussion, small group or tutorial instruction, seminars, or other combinations of the above. In all cases, the method(s) to be used will be explained early in the course.



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## COURSE EQUIVALENCY

With the permission of a program advisor in the major area, a student may substitute one course for another of equivalent content. While this equivalent course(s) satisfies the requirement, it does not reduce the number of courses required in the major area.

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## REPETITION OF COURSES

Any failed or passed course may be repeated only once. Students who have twice failed any course which is required for graduation in a particular area of study must withdraw from that program. In the Faculty of Engineering passed courses may be repeated only in the final year of study as may be allowed by the Faculty.

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## MAXIMUM COURSE LOAD AND OVERLOAD

Overload courses are deemed to be courses taken in addition to the prescribed term load for a given program. These could include a) courses repeated or taken in lieu of failed courses, b) courses taken to accelerate the time to completion of degree requirements or c) courses taken in addition to those required for the program in which the student is registered.

Students in Semesters 1 and 2 may not register in any course overload; entering students in the Faculty of Arts and Social Sciences and in the Faculty of Science who have qualifying averages of 90 or higher may apply for permission to take a course overload to the Associate Dean of their Faculty. Senior students (Years 2 - 4) who are not on academic probation may normally register in only one overload course during each of the Fall and Winter terms. In the Faculty of Science course overload requests must be approved by the Associate Dean of the Faculty of Science. In the Faculty of Engineering course overload requests must be approved by the Associate Dean of the Faculty of Engineering.

Students should not take overload courses unless absolutely necessary since the result may be poorer overall performance.

All three-year programs require the completion of thirty courses and most Honours or four-year Major programs require the completion of forty courses. For such programs, therefore, the normal course load during the Fall and Winter terms is five courses.

Certain Honours or four-year Major programs require more than forty courses for completion of the degree. For these programs the prescribed term load is indicated in the program section of the calendar.

A student may take up to three six-week courses in either Intersession or Summer Session, but no more than a total of five courses over the combined Intersession and Summer Session time period. Students in the Faculty of Arts and Social Sciences who are on academic probation may take no more than two courses during each of Intersession and Summer session and altogether no more than four courses over the combined Intersession and Summer session time period.

The normal course load for Co-op programs which include a summer study term is included in the program section of the calendar (see *Overload Course Fee* in the *Fee Regulations* section of this calendar).

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Statistics  
Women's Studies\*\*

\*\* Women's Studies 53-220 will satisfy either a Social Science or a Science option requirement.

*PROFESSIONAL*

Business Administration  
Education  
Engineering  
Kinesiology  
Law  
Nursing\*\*\*

\*\*\*For students in the Faculty of Arts and Social Sciences the following Nursing courses will satisfy a Science option requirement: 63-241, 63-243, 63-245, and 63-391.

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## MINOR

A minor is not required but is available in most subject areas. See the individual program sections for availability of a minor in a specific discipline. A minor normally requires the completion of six courses as specified by the regulations of individual programs, and a minimum average of C- (5.0) in all minor courses.\* Courses completed to fulfill the major requirements cannot be counted toward a minor, but courses completed for other and option requirements under the major degree can be used to fulfill the minor requirements. [Courses offered by the Faculty of Engineering constitute major requirements for engineering students.] Courses counted toward a minor cannot be counted toward a second minor.

*\*Exception:* The minor in Chemistry and Biochemistry requires an overall average of C+ or higher in all six courses with no individual course having a mark lower than a C-.

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## PROGRAM TRANSFERS

A student who wishes to transfer to a new program may apply on the web on the Student Self Service page at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis). All program transfers and conditions for transfer are subject to the approval of the Dean in accordance with regulations established by the Faculty into which the student wishes to transfer.

- 1) Normally a student who has a cumulative G.P.A. of 5.0 or greater in the previous program, and who meets the admission requirements of the intended program will be permitted to transfer and credit will be granted for all courses completed that apply to the intended program.
- 2) If a student has been required to withdraw from a program, the student normally will be considered for admission to the new intended program on the same basis as students who have been required to withdraw from the program.
- 3) All courses that are transferable, whether passed or failed, will be considered in calculating both the cumulative and major averages (where appropriate) in the new program.

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## COMBINED MAJOR

Students wishing to combine two areas of study from the Arts, Languages, Social Sciences, or Science within a single four-year Honours B.A. or B.Sc. program may do so if the areas of study concerned have provided for this possibility in their respective sections of the Calendar. Such programs require a total of forty courses usually including a minimum of sixteen courses in each area to be selected in accordance with the regulations of each area of study as defined in the appropriate section of the calendar.



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## SENIOR-LEVEL COURSE REQUIREMENTS

Three-year degree programs require a minimum of sixteen courses at or above the 200 level. All four-year programs require a minimum of twenty-six courses at or above the 200 level. Consequently, no student will be able to count more than fourteen 100-level courses towards a degree.

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	<b>STANDING REQUIRED FOR CONTINUATION IN PROGRAMS</b>
	1) The requirements for continuation "in good standing" are as follows, unless otherwise specified in the program section of the calendar:
	A cumulative G.P.A. of 5.0 and a major G.P.A. of 5.0 in all General and Honours B.A. and B.Sc. degree (with major) programs [except for the Honours B.Sc. Degrees offered in Computer Science and the Concurrent B.A. French Studies (honours)/B.Ed.], in the B.C.S.(General), in the B.Math (General), in the B.Comm.(Honours Business Administration), in the B.Comm. (Honours Business Administration and Economics), and in the B.Sc.N.;
	A major G.P.A. of 8.0 in French Studies courses in order to remain in the Concurrent Bachelor of Arts in French Studies/Bachelor of Education Program.
	A cumulative G.P.A. of 5.0 and a major G.P.A. of 8.0 in the B.Comm. (Honours Business Administration and Computer Science), B.E.S., B.F.A., B.F.S., B.M.T., B.Mus., B.Sc. (Honours) programs offered in Computer Science, B.S.W., B.C.S. (Honours), B.Math (Honours) and B.O.R.;
	A cumulative G.P.A. of 8.0 and a major G.P.A. of 8.0 in the B.A.S. and the B.Comm. (International Business).
	A cumulative G.P.A. of 5.0 in the following programs: B.A.Sc. and B.H.K.
	A cumulative G.P.A. of 5.0 and an average of 5.0 in required Science courses: three-year general B.Sc. degree.
	A cumulative G.P.A. of 5.0 in all certificate programs, except for the Second Language Education certificate.
	A cumulative G.P.A. of 8.0 in the Second Language Education certificate.
	2) An appropriate Academic Standing Committee within each Faculty reviews the academic record of each student and makes academic decisions as appropriate in light of the cumulative and major averages achieved. In most programs this evaluation occurs at the conclusion of the Winter term. In certain programs (such as Co-operative Education programs, all Odette School of Business programs, and Kinesiology), this evaluation may occur at the conclusion of any term, depending upon the structure of the program.
	3) A student will automatically be placed on probation if he/she has not met the minimum cumulative and major average requirements at the end of any term in which his/her record is not being formally reviewed,
	4) A student's record will be referred to an appropriate Academic Standing Committee within the Faculty for decision if he/she has not met the minimum cumulative or major average at the end of the term when the record is being reviewed.
	(a) If the cumulative and major average requirements are 5.0 and if the student has achieved an average between 4.0 and 4.9, the student normally will be allowed to continue on probation until the next evaluation period. By the subsequent evaluation period both the cumulative and major averages must be raised to at least a 5.0 or the student may be required to withdraw from the program.
	(b) If the major average requirement is 8.0 and if the student has achieved a major average below 8.0, the student will be placed on probation and will be allowed to continue on probation until the next evaluation period. By the subsequent evaluation period the major average must be raised to at least 8.0 or the student may be required to withdraw from the program.
	(c) If the cumulative average is below 4.0 the student will be required to withdraw.
	5) Notification of the requirement to withdraw is included on the final grade report, accessible via the web. Students who have been required to withdraw may appeal. The appeal must be in writing to the Office of the Dean of the Faculty and must be submitted with any supporting documentation within six weeks of the web release of final grade reports by the Office of the Registrar. Appeals are considered by the Academic Standing Appeals Committee; only circumstances of an extraordinary nature will result in rescinding the requirement to withdraw. Students should contact the appropriate Office of the Dean for information concerning appeals procedures.
	6) A student who has been required to withdraw may not register in the program from which he or she has been required to withdraw for twelve months.
	The student must apply for re-admission online at <a href="http://www.uwindsor.ca/sis">www.uwindsor.ca/sis</a> by the appropriate deadline date for the term desired and must include a statement of rationale, and documentation of academic success elsewhere.
	Re-admission to a program is not automatic and will be dependent upon an assessment of the applicant's prospects for successful completion of the program.
	If re-admitted, the student will be placed on probation and must raise the cumulative and major averages to 5.0 or higher by the next evaluation period and must satisfy any additional conditions of readmission which may have been imposed. If the

student fails to meet such requirements, he or she normally will be required to withdraw.

A student who has been required to withdraw a second time will not be eligible for re-admission.

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## STANDING REQUIRED FOR GRADUATION

In order to graduate a student must obtain minimum Grade Point Averages as follows:

A cumulative G.P.A. of 5.0 and a major G.P.A. of 5.0 in all three-year B.A. (General), B.Sc. (General with major), B.C.S. (General), B.Math (General) degree programs, B.Comm. (Honours Business Administration), B.Comm. (Honours Business Administration and Economics), B.Sc.N.;

A cumulative G.P.A. of 5.0 in three-year B.Sc. (General without major) degree programs, B.A.Sc., B.H.K.;

A cumulative G.P.A. of 5.0 and a major G.P.A. of 8.0 in all Honours B.A. and Honours B.Sc. degree programs. (Students completing the Honours degree with a cumulative G.P.A. of at least 5.0 and a major G.P.A. of at least 5.0 but less than 8.0 will be awarded the four-year Major degree, except for Computer Science programs);

A cumulative G.P.A. of 5.0 and a major G.P.A. of 8.0 in Honours B.E.S., B.F.S, B.A. Drama in Education and Community, and the Modern Languages with Second Languages Education programs.

A cumulative G.P.A. of 5.0 and a major G.P.A. of 8.0 in the B.Comm. (Honours Business Administration and Computer Science), B.F.A., B.M.T., B.Mus., B.S.W., B.C.S. (Honours), B.Math. (Honours) and B.O.R.

A cumulative G.P.A. of 8.0 and a major G.P.A. of 8.0 in Honours B.A.S. and the B.Comm. (International Business).

A cumulative G.P.A. of 5.0 in all certificate programs, except for the Second Language Education certificate.

A cumulative G.P.A. of 8.0 in the Second Language Education certificate.

Students in first-entry degree programs or certificate programs who graduate with a cumulative grade average from "A-" to "A" (11.0 to 11.99) will receive their degree or certificate "With Distinction". Students in first-entry degree programs or certificate programs who graduate with a cumulative grade average from "A" (12.0) and above will receive their degree or certificate "With Great Distinction".

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## INTRODUCTORY STATISTICS COURSES

Credit may not be given for more than one introductory statistics course, regardless of from which faculty they are taken. Students in Arts and Social Science will normally take the General Faculty course 02-250. Students in Business will normally take 73-102 and students in Science will normally take 65-205.

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## POLICY ON PLAGIARISM

Plagiarism is defined as: "The act of appropriating the literary composition of another, or parts of passages of his or her writing, or the ideas or language of the same, and passing them off as the products of one's own mind." (Black's Law Dictionary)

It is expected that all students will be evaluated and graded on their individual merit and all work submitted for evaluation should clearly indicate that it is the student's own contribution.

Students often have to use the ideas of others as expressed in written or published work in preparing essays, papers, reports, theses and publications. It is imperative that both the data and ideas obtained from any and all published or unpublished material be properly acknowledged and their sources disclosed. Failure to follow this practice constitutes plagiarism and is considered to be a serious offense. Thus, anyone who knowingly or recklessly uses the work of another person and creates an impression that it is his or her own, is guilty of plagiarism.

Plagiarism also includes submitting one's own essay, paper, or thesis on more than one occasion. Accordingly, it is expected that a thesis, essay, paper or a report has not been and is not concurrently being submitted for credit for any other course. In exceptional circumstances and with the prior agreement of the instructor, a student may use research completed for one course as part of his or her written work for a second course.

A confirmed incident of plagiarism will result in a sanction ranging from a verbal warning, to a loss of credit in the course, to expulsion.

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## POLICY ON UNACCEPTABLE USE OF COMPUTER RESOURCES

Clients within the University community using computing resources are entitled to the basic human rights of privacy and academic freedom. This privacy and academic freedom extends from the security on individual computer accounts and files, to the non-interference in legitimate computer use for University activities.

The holder of a computer user ID and password will protect the campus computing facilities from unauthorized access by keeping his/her password confidential and by changing it regularly.

Notwithstanding the foregoing principle on individual privacy and academic freedom, certain uses of computing resources are unacceptable. In any case, the campus network services are subject to the acceptable-use guidelines established by regional and national networks (e.g., ONet and the Internet); the applicable guidelines are available from Information Technology Services.

In general, six major areas of unacceptable use are identified:

(a) Uses that violate federal or provincial laws, or University bylaws and policies such as those concerning information confidentiality.

(b) Any uses that unduly interfere with the work of others or with the work of host systems. This includes, but is not limited to the unauthorized use of a computer user ID or password; the seeking of information about, or the attempt to modify the University's computer security system; and the knowing propagation of computer viruses or electronic chain letters.

(c) Unauthorized copying of proprietary software, publications, or files.

(d) Uses of commercial software that in any way violates the applicable licensing agreement.

(e) Uses related to commercial activities including, but not limited to the distribution of advertising material, the offering of network information and services for sale or personal gain, or to private enterprises.

(f) Computer information that portrays either men or women or their body parts in a pornographic or derogatory manner.

A confirmed incident of unacceptable use will result in a sanction ranging from a verbal warning, to revocation of computing privileges, to expulsion, and to criminal prosecution.

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## EXAMINATION PROCEDURES

For information on examinations and testing procedures, see **Senate Bylaw 51: Academic Evaluation Procedures**.

**Student should also become familiar with Senate Policy E3: Rules for Conduct of Examinations and Examination Medical Emergency Procedures.**

Students with three invigilated final examinations scheduled on the same day may petition to have one of the examinations rescheduled by completing the appropriate request form available at [www.uwindsor.ca/sis](http://www.uwindsor.ca/sis). Application must be submitted to the Office of the Registrar by the end of the fourth week of classes (or by the end of the second week of classes for six week courses). See also *Senate Policy E2: Multiple Final Examinations in One Calendar Day*.



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## OFF-CAMPUS EXAMINATIONS

A student with a cogent reason may be granted permission to write an examination at an off-campus centre. Application forms are available in the Registrar's Office. To allow sufficient time for arrangements and mailing, approved applications must be submitted, along with the appropriate fee, to the Registrar's Office at least one month prior to the date on which the examination is to be written.

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<a href="#">Search the Undergraduate Calendar</a>	<u>Grade Point</u>	<u>Letter Grade</u>	<u>Range</u>
<a href="#">Programs and Certificates</a>	13	A+	93-100
<a href="#">Programs (Listed Alphabetically)</a>	12	A	86-92.9
<a href="#">Programs (Listed by Faculty)</a>	11	A-	80-85.9
<a href="#">Programs (Listed by Department)</a>	10	B+	77-79.9
<a href="#">Certificate Programs</a>	9	B	73-76.9
<a href="#">Minors</a>	8	B-	70-72.9
<a href="#">Courses</a>	7	C+	67-69.9
<a href="#">Alphabetical by Department</a>	6	C	63-66.9
<a href="#">Instructors</a>	5	C-	60-62.9
<a href="#">Alphabetical by Department</a>	4	D+	57-59.9
<a href="#">Admission Information</a>	3	D	53-56.9
<a href="#">Application Information</a>	3	D	53-56.9
<a href="#">Admission Requirements</a>	2	D-	50-52.9
<a href="#">English Language Proficiency</a>	1	F	35-49.9
<a href="#">Registration</a>	0	F-	0-34.9
<a href="#">Fee Regulations and Schedule</a>	0	F-	0-34.9

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## CALCULATION OF AVERAGES

The marks obtained in all courses taken at the University of Windsor are used to calculate a cumulative average. Similarly, all marks obtained in courses in the major area of study are used to calculate major averages. Provided that the course is available in a subsequent registration period, a student may repeat a course only once for purposes of upgrading a major or cumulative average. Both the original mark and the upgraded mark obtained will remain on the student's official record. However, only the mark received in the second attempt is used in calculating the cumulative and major averages.

Bachelor of Arts and Science: The calculation of the major average for the Bachelor of Arts and Science program consist of grades obtained in the subject area of the Major Concentration plus the following courses: 56-301, 56-310, 56-401, 56-421, 56-410 and 56-420.

Grades assigned and their significance are as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C, C-	Fair
D+, D, D-	Pass
F, F-	No Credit
Inc	Incomplete
IP	In Progress
NR	No Report

For the purpose of calculating a grade point average, the following numerical equivalents are used:

A+	13	A	12	A-	11
B+	10	B	9	B-	8
C+	7	C	6	C-	5
D+	4	D	3	D-	2
F	1	F-	0	NR	0

A student's progress within a program will be evaluated on the basis of the grade point average. For purposes of calculation, the grade point earned in a 6.00 credit hour course will be double the weight of that earned in a regular 3.00 credit hour course. A grade point earned in a 1.50 credit hour course will be given one-half the weight earned in a 3.00 credit hour course.

Example:

Letter Grade Credit  
Grade Points Weight

A	12	x	1.5	=	18
B	9	x	3	=	27
B-	8	x	6	=	48
C+	7	x	3	=	21
F-	0	x	<u>1.5</u>	=	<u>0</u>
			15		114

Average:  $(114/15) = 7.6$

Some programs calculate weighted averages based upon the number of contact hours for each course. In these programs, the average is calculated as follows:

Letter Grade	Grade Points		Credit Weight		
A	12	x	2.50	=	30.00
B	9	x	3.00	=	27.00
B-	8	x	4.25	=	34.00
C+	7	x	6.00	=	42.00
F-	0	x	<u>8.00</u>	=	<u>0.00</u>
			23.75		133.00

Weighted Average:  $(133.00 / 23.75) = 5.6$

Courses in which an F or F- grade is received will be recorded on the student's transcript and may be factored into the Grade Point Average but will carry no credit toward a degree. A grade of IP is recorded at the end of the first term of a two-term course.

A grade of NR is assigned to students who although registered in a course have neither attended regularly nor submitted assignments. In computing a student's average, NR is equivalent to F-.

Subject to regulations laid down by the faculty or school, a grade of "Incomplete" may be assigned to a student who so requests at the discretion of the instructor and academic unit head. Such a grade may be granted to a student who has not been able to complete all course requirements by the date of the final evaluations. The grade of "Incomplete" could be used in situations such as:

- (i) the missing of an examination or test for a valid reason,
- (ii) the failure to complete required projects or assignments in the allocated time owing to circumstances beyond the student's control.

A grade of "Incomplete" must be changed to a letter grade not later than six weeks after the last date of the examination period. If no grade has been assigned by that date, a final grade of F is automatically entered in the student's record by the Office of the Registrar.

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## APPEALS

Before exercising their right of appeal against a grade, students should consult Senate **Bylaw 51, Academic Evaluation Procedures**, copies of which are available at the Office of the Registrar or at the University website. Students registered in the LL.B. program should consult the Academic Status regulations of the Faculty of Law.

All appeals must be made in writing to the appropriate Faculty through the Office of the Registrar, no later than three weeks after the final mark has been released by the Registrar. The official release dates are posted on the web. The appeal must be accompanied by a \$20 fee which will be refunded to the student if the appeal is successful. Students must submit a letter of rationale for the appeal, including relevant supporting documents.

*Aegrotat Standing:* A student who wishes to receive consideration on medical or compassionate grounds should communicate with the Office of the Registrar as soon as possible. A letter of rationale and supporting documents (e.g., the attending physician's letter) must be submitted to the Registrar forthwith.

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## SOCIOLOGY AND ANTHROPOLOGY

### Sociology Program Information

The study of sociology is an opportunity to learn about the many aspects of social relations, ranging from face-to-face, intimate and family relationships, to those among such social groups as households, genders, classes, movements, race and ethnic groups, unions, corporations, and governments, as well as industrial and developing societies. The faculty have particular strengths in researching social justice issues concerning AIDS, crime, occupational health, decline of family farms, First Nations, third world development, health care, employment equity, prison reform, sex work, gay and lesbian communities, immigrant workers, and Latin America and the Middle East. Please note in particular the following course sequences:

*Criminology:* 48-260, 48-261, 48-262, 48-361, 48-362, 48-363, 48-367, 48-368, 48-369, 48-370, 48-371, 48-372, 48-460, 48-461, 48-464, 48-465, 48-466.

*Family, Sex, and Gender:* 48-104, 48-204, 48-205, 48-206, 49-214, 48-251, 48-306, 48-329, 48-450, 48-351, 48-352, 48-354, 48-409, 48-461.

*International Development:* 49-112, 48-226, 48-227, 48-232, 48-321, 48-325, 48-327, 48-330, 48-332, 48-340, 48-352, 48-411.

*Race and Ethnic Relations:* 48-232, 48-240, 48-241, 48-333, 49-331, 49-406.

*Social Planning:* 48-225, 48-226 (or 49-226), 48-227, 48-228, 48-241 (or 49-241), 48-280, 48-281, 48-326, 48-352 (or 49-352), 48-354, 48-381, 48-480, 50-341, 50-401, 50-452, 43-347.

*Work:* 48-225, 48-228, 48-321, 48-326, 48-332.

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## UNDERGRADUATE REGULATIONS

Students are responsible for becoming familiar and complying with the general regulations of the University as contained in this section. Additionally, students must be familiar and comply with the regulations of the Faculty in which they are enrolled. These particular requirements may be found in the program sections of this calendar.

Students also are directed to read the *Statement of Responsibility*, and the calendar of important dates and deadlines under *Academic Dates*.

*Click on the links provided for the detailed University policies and regulations pertaining to each heading:*

**Classification of Students** (including definitions for full-time student, part-time student, conditioned student, visiting student, audit student, special or non-degree student, and academic probation)

### Academic Advising

**Residency Requirements** (the number of courses that must be completed at the University of Windsor)

**Advanced Standing** (the granting of advanced standing reduces the total number of courses a student must complete for a degree)

**Letters of Permission** (enables students to take courses at another university for credit towards their University of Windsor degree)

### Additional Undergraduate Degrees

**Certificate Programs** (definition and policy)

### Definition of Courses and Sessions

### Course Content

**Course Equivalency** (permission to substitute one course for another)

### Repeating a Course

**Maximum Course Load and Overload** (course taken in addition to the prescribed semester or term load)

**Options** (courses in subjects other than the major subject)

**Minor** (provides a general knowledge of an area of study)

### Transferring to Another Program

**Combined Major** (majoring in two subject areas)

**Senior-Level Course Requirements** (minimum number of courses that must be completed at the 200-level or above)

**Standing Required for Continuation in Programs** (the minimum major and cumulative GPAs required of a student to continue in his/her program of study)

**Standing Required for Graduation** (the minimum major and cumulative GPAs required of a student to graduate)

### Introductory Statistics Courses

### Policy on Plagiarism

### Policy on Unacceptable use of Computer Resources

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## VISUAL ARTS

### GENERAL INFORMATION

Transfer Students: Students who have taken art courses at other post-secondary institutions and desire credit for basic courses in Visual Arts may be required to submit a portfolio of their own work for evaluation by Visual Arts, together with an official transcript of their record and catalogues describing the courses taken, all of which must be submitted no later than two weeks before the first day of classes.

### PROGRAM REQUIREMENTS

1) 28-150 must be taken in the first year.

2) Visual Arts students must take 27-105, 27-106, 27-107, and 27-108 in the first year.

3) Registration in any studio courses numbered in the 27-200s requires a successful B.F.A. portfolio evaluation.

4) Fourth-year B.F.A. students will be required to participate in the B.F.A. Candidates' Exhibit. The selection of work to be exhibited is to be made with the approval of the student's instructor in Studio Practice II.

### AREAS OF STUDY

Requirements for degree programs in Visual Arts make reference to the following groups of courses:

*Basic Courses:* 27-105, 27-106, 27-107, 27-108, and Art History 28-150, 28-214 and 28-215.

*Critical Issues:* 27-491

*Digital Media:* 27-245, 27-345, 27-365.

*Drawing:* 27-203, 27-303, 27-365.

*Inter-media Practices:* 27-383, 27-384

*Internship:* 27-380

*Painting:* 27-213, 27-313, 27-365.

*Photography:* 27-253, 27-353, 27-365

*Printmaking:* 27-223, 27-224, 27-326, 27-365.

*Sculpture:* 27-233, 27-333, 27-365.

*Seminar:* 27-490.

*Studio Practice I:* 27-480

*Studio Practice II:* 27-481

*Time-Based:* 27-243, 27-343, 27-365

*Art History:* see Visual Arts - Art History Course Descriptions.



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## SOCIOLOGY AND ANTHROPOLOGY

### Anthropology

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 49-111; 49-112; four 200-level (49-) courses; 49-356; three 300-level (49-) courses; 49-415; 49-418.

*Minor Concentration:* 49-111; 49-112; one 200-level (49-) course; 49-356; 49-415; 49-418.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### Classical Studies

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 11-162, 07-220, two of 13-100, 13-101, 13-200, 13-201, 14-100, 14-101, 14-200, 14-201, at least one course each in any three of the following areas:

Art and Archeology: 11-265, 11-266

Greek and Roman History: 12-262, 12-263, 12-271, 12-272

Literature: 11-212, 11-221, 11-350

Mythology and Religion: 11-229, 11-232, 11-370

Plus, any five Classics courses (prefix 11-, 12-, 13-, 14-)

*Minor Concentration:* six courses in Classics (prefix 11-, 12-, 13-, 14-) with no more than four at the 100-level; and at least one at the 300-level or above.

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<a href="#">Glossary</a>	<a href="#">Major and Minor Concentrations - Bachelor of Arts and Science (BAS)</a>
<a href="#">Search the Undergraduate Calendar</a>	<i>Major Concentration:</i> 07-120, 07-220, 07-137, 07-237; six language courses in one language option area; two literature, culture or civilization courses in the area of the language option.
<a href="#">Programs and Certificates</a>	<i>Minor Concentration:</i> four language courses in one language option area, plus two literature, culture or civilization courses in the area of the language option.
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## COMMUNICATION STUDIES

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 40-101, 40-200, 40-202, 40-225, 40-234, 40-257, 40-275, plus five additional Comm. Studies courses three of which must be at the 300-level or above (excluding 40-398, 40-399, 40-498, 40-499).

*Minor Concentration:* 40-101, four of 40-200, 40-202, 40-225, 40-234, 40-257, 40-275, one 300-level or above course (excluding 40-398, 40-399, 40-498, 40-499).

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## **SOCIOLOGY AND ANTRHOPOLOGY**

### **Criminology**

#### **Major and Minor Concentrations - Bachelor of Arts and Science (BAS)**

*Major Concentration:* 48-101; 48-102 or 48-112; 48-202; 48-210; 48-260; 48-262; 48-310 or 48-355; 48-363; two of 48-307, 48-361, 48-362, 48-364, 48-365, 48-367, 48-368, 48-370; one of 48-460, 48-461, 48-464, 48-465, 48-466; one other criminology course.

*Minor Concentration:* No Minor Concentration offered.

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## DRAMATIC ART

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 24-100; 24-200; one courses from each of Category A, B, and C; seven course selected in association with a Dramatic art advisor.

*Minor Concentration:* 24-330, 24-333, four additional courses. (No more than two courses at the 100-level.)

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

Major Concentration: 26-120, 26-210, 26-211, 26-260 or 26-270, one additional 200-level course, one course from each of Categories A-E, two additional courses from Categories A-E.

Minor Concentration: two 100-level courses (one of which must be a literature course and excluding 26-100 and 26-103); plus two courses from Categories A-B and two courses from Categories C-E, one of which must be at the 300-level or above.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### French Studies

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 29-121, 29-122, 29-141, 29-215 (or 29-315), 29-221, 29-222, 29-230, 29-231, plus one additional French Literature course, three courses from any area of French studies. At least one course must be in the literature or culture of Francophone Canada.

*Minor Concentration:* 29-121, 29-122, 29-221, and 29-222; plus two courses that may be in Language Training, Translation, Linguistics, Literature or Culture.

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## HISTORY

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* one of 43-101, 43-123 or 43-124, 43-200, six 200-level or above courses; 43-400, three 300-level or above courses.

*Minor Concentration:* one of 43-101, 43-123 or 43-124, two 200-level courses, three 300-level or above courses.

### HISTORY: **PROGRAM REGULATIONS (and Courses Outside of the Department Which May Be Counted Toward History Requirements)**

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## MUSIC

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Minor Concentration:* 32-112, 32-113, 32-116, 32-117, plus two additional Music courses (for a total of six credits)

*Major Concentration:* 32-112, 32-113, 32-116, 32-126, 32-127, 32-346, six courses at the 200-level or above, including two 32-series courses, two 33-series courses, and two *Music History and Literature (Musicology)* courses.

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## PHILOSOPHY

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 34-110, 34-112, 34-x2x, at least one of 34-250 or 34-254, at least one of 34-270 or 34-271, at least one of 34-274 or 34-275, at least one of 34-330, 34-352, 34-353, at least one of 34-555, 34-470, 34-471, at least one of 34-260, 34-261, 34-262, any two additional courses at the 200-level or above, 34-491.

*Minor Concentration:* 34-110 or 34-112, one of 34-330, 34-352, 34-353, four additional courses. No more than two courses at the 100-level.

### PHILOSOPHY: PROGRAM REGULATIONS

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## POLITICAL SCIENCE

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 45-100, 45-160, 45-220, 45-232, 45-233, 45-252, 45-411, 45-412, 45-421, 45-431, 45-461, 45-464.

*Minor Concentration:* 45-100, 45-160, 45-232, 45-233, 45-431, 45-461.

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## PSYCHOLOGY

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 46-115; 46-116; 46-229 or 46-230; one of 46-220, 46-223, 46-236; 02-250; one of 46-335, 46-353, 46-358; four 300-level or above courses, one of which at least must be at the 400-level; two additional Psychology courses.

*Minor Concentration:* 46-115; 46-116; two 200-level courses; one 300-level course; one 400-level course.

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## SOCIOLOGY AND ANTHROPOLOGY

### Sociology

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 48-101; 48-102; 48-202; 02-250; 48-210; 48-302; 48-310; three 300-level or above courses; two of 48-404, 48-405, 48-406, 48-408.

*Minor Concentration:* 48-101; 48-102; 48-202; 02-250; 48-302; 48-310.

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## VISUAL ARTS

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 27-105, 27-106, 27-107 and 27-108, 28-150; seven additional Visual Arts courses at the 200 level or above including three 300-level or above courses.

*Minor Concentrations:* 27-105, 27-106, 27-107, 27-108 and 28-150; one additional Visual arts course at the 200 level.

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## WOMEN'S STUDIES

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

Major Concentration: 53-100, 53-200, 53-201, 53-202, 53-300, 53-301; at least one of 53-310, 53-320, or 53-360; five additional Women's Studies/ Women-Emphasis courses, at least two of which must be at the 300-level or above and only one can be at the 200-level.

*Minor Concentration:* 53-100; at least one of 53-200, 53-201, 53-202, or 53-400; four additional Women's Studies (53-) courses, no more than one other course may be at the 100-level.

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## CHEMISTRY AND BIOCHEMISTRY

### Biochemistry

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 59-230, 59-240, 59-250, 59-261, 59-320; five of 59-362, 59-363, 59-365, 59-464, 59-466, 59-468, 59-4xx; plus 55-211 and 55-213. (*Other requirements:* 59-140, 59-141, 55-140, 55-141.)

*Minor Concentration:* 59-230, 59-261; four of 59-362, 59-363, 59-365, 59-320, 59-235. (*Other requirements:* 55-140, 55-141, 59-140, 59-141.)

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- BIOLOGICAL SCIENCES**
- Major and Minor Concentrations - Bachelor of Arts and Science (BAS)**
- Major Concentration: 55-210; 55-211; 55-213; 55-341; 59-230; 59-261; one additional 200-level course; two 200 or 300-level courses; three 300-level or above courses. (Other requirements: 55-140, 55-141, 59-140, 59-141.)*
- Minor Concentration: 55-210; 55-211; 55-213; 55-341; one other 200-level course; one 300-level or above courses. (Other requirements: 55-140, 55-141, 59-140, 59-141.)*
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## CHEMISTRY AND BIOCHEMISTRY

### Chemistry

#### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 59-230; 59-235; 59-240; 59-241; 59-250; 59-251; 59-261; 59-320; four of 59-321, 59-330, 59-331, 59-340, 59-350, 59-351, 59-4xx. (*Other requirements:* 59-140, 59-141, 62-140, 62-141.)

*Minor Concentration:* two of 59-230, 59-240, 59-250; four of 59-320 or, 59-321 or, 59-235 or, 59-241 or, 59-251 or, 59-3x0 and 59-3x1 (*i.e.*, one pair of courses at the 300-level) (or permission of instructor). (*Other requirements:* 59-140, 59-141, 62-140, 62-141.)

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## COMPUTER SCIENCE

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 60-100, 60-212, 60-254, 60-256, 60-265, 60-322, 60-315, 60-330, 60-334, 60-393, 60-367; one course at the 300-level or above. (Other requirements: 60-140, 60-141, 62-140, 62-141.)

*Minor Concentration:* 60-100, 60-212, 60-254, 60-256; one Computer Science course at the 200-level or above; and one Computer Science course at the 300-level or above. (Other requirements: 60-140, 60-141, 62-140, 62-141.)

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## EARTH AND ENVIRONMENTAL SCIENCES

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 61-220, 61-224, 61-230, 61-231, 61-232, 61-280; plus six of 67-210, 67-246, 61-320, 61-321, 61-323, 61-324, 61-328, 61-326, 61-327, 61-380, 61-420, 61-424, 61-429, 61-430, 61-436, 61-441. (Other requirements: 61-140, 61-141, 59-140, 59-141.)

*Minor Concentration:* 61-220, 61-224, 61-232, 61-230, 61-231, 61-280. (Other requirements: 61-140, 61-141.)

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## ECONOMICS

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 41-212, 41-221, 41-222, 41-231, 41-232, 41-313, 41-323, 41-333, 41-414; three additional courses at the 300-level or above. (If Gen Sci. Major 41-424 and 41-434 are required.) (Other requirements: 41-110, 41-111, 65-205.)

*\*(Note: If a student is considering graduate studies in Economics they should take 62-140 (BAS core), 62-141 (BAS core), 65-250 (replaces core 65-205) and 65-251 (replaces 41-212) and 41-424 and 41-434 (replaces two of the three additional 300 level or above), and one additional Economic course at the 300 level or above (replaces 62-130.)*

*Minor Concentration:* 41-212, 41-221, 41-222, 41-231, 41-232; one 300-level or above course. (Other requirements: 41-110, 41-111, 65-205.)

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## MATHEMATICS AND STATISTICS

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 62-120, 62-190, 62-215, 62-216, 62-220, 62-221, 65-250, 65-252; four of 62-314, 62-315, 62-318, 62-321, 62-322, 62-342, 65-376. (Other requirements: 62-140, 62-141.)

*Minor Concentration:* 62-120, 62-190, 62-215, 62-216, 62-318, 65-250. (Other requirements: 62-140, 62-141.)

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## PHYSICS

### Major and Minor Concentrations - Bachelor of Arts and Science (BAS)

*Major Concentration:* 64-220, 64-222, 64-250, 64-320, 64-350, 64-323, 64-331, 64-310, 62-215, 62-216, 62-218, 62-360. (Other requirements: 64-140, 64-141, 62-140, 62-141, 64-151 (replaces 65-205 from the BAS core), 62-120 (replaces 62-130 from the B.A.S. core).)

*Minor Concentration:* 64-151, 64-220, 64-222, 64-250, 64-310, 64-311. (Other requirements: 64-140, 64-141, 62-120, 62-140, 62-141.)

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## CHEMISTRY AND BIOCHEMISTRY

### PROGRAM REGULATIONS

1) The prerequisite for 59-410 is a major G.P.A. of 8.0.

2) Unless otherwise stated, students in Chemistry and Biochemistry are expected to take the course with laboratory where two offerings differing only in the presence or absence of a laboratory component are listed.

Standing Required: For continuation in any Chemistry or Biochemistry program at the second level, a student must obtain a minimum grade of C- in Chemistry 59-140 and 59-141, or the equivalent. Students in Biochemistry also must obtain a minimum grade of C- in Biology 55-140 and 55-141.

The Department offers three Honours programs which are accredited by the Canadian Society for Chemistry: Honours Chemistry, Honours Chemistry and Physics, and Honours Biochemistry, as well as a program in Honours Biochemistry and Biotechnology. (Planned accreditation 2006.)

### Preparation for Graduate and Professional Schools

Courses are available to permit the student to become fully prepared for entry into medical, dental, and pharmacy schools, as well as graduate programs in the physical and life sciences. Students should determine as early as possible the specific requirements for graduate or professional schools and programs that they may wish to apply for after completing all or part of a Chemistry or Biochemistry program. Academic advisors are available.

Since many graduate schools have language requirements, students who may subsequently choose to enter graduate school are strongly advised to consider a selection of courses which includes the prominent scientific languages, French and German.

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## BIOLOGICAL SCIENCES

### PROGRAM INFORMATION

#### Placement

Students without Grade 12“U” Biology or equivalent and who were admitted to other University programs may be allowed to substitute Biology 55-100 and 55-101 as prerequisites for Biology 55-140 and 55-141 provided that a combined grade point average of at least 8.0 is obtained in those courses. However, they will not receive credit towards a B.Sc. degree in Biological Sciences for 55-100 and 55-101.

#### Areas of Study in Biological Sciences

The B.Sc. in Biological Sciences provides entry to a broad range of teaching, research, and biomedical careers. Most require formal, post-graduate training, and it is the student's responsibility to determine, as early as possible, the specific requirements of programs to which he or she wishes to proceed.

Programs in Biological Sciences provide a solidly based background ensuring that the general requirements of post-graduate programs will be fulfilled. The array of courses offered is such that students may emphasize areas of particular interest or aptitude. Advice on career paths and on course selection is available to students through a student advising program. Pursuit of the Honours with thesis degree is strongly recommended for professional advancement in science.

#### Preparation for Graduate and Professional Schools

Courses are available to permit the student to become fully prepared for entry into medical, dental, pharmacy, and other professional schools, as well as graduate programs in the biological sciences. Pre-professional advising is available in the Office of the Associate Dean, Lambton Tower. Students should seek advice on course selection early in their program.

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## ODETTE SCHOOL OF BUSINESS

### PROFESSIONAL AND CERTIFICATE COURSES

Designated courses in the Management and Labour Studies area meet the educational requirements for achieving Professional Designation by the Human Resources Professionals Association of Ontario (HRPAO). Consult with a Faculty Advisor in Management and Labour Studies for details.

The Michigan State Board of Accounting accepts graduates of the program with a major in accounting for the Certificate Examination.

The Institute of Chartered Accountants of Ontario, the Society of Management Accountants of Ontario and the Certified General Accountants' Association of Ontario grant graduates of the Bachelor of Commerce program credits towards professional certification for the satisfactory completion of certain Business Administration courses. A faculty advisor in Accounting should be consulted with respect to the specific exemptions available.

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	<b>FACULTY OF ENGINEERING: NON-TECHNICAL ELECTIVES</b>
	For complete descriptions of the courses listed below, see the respective area/program sections of this Calendar.
	Not all courses will be offered each year. All courses are three hours a week unless otherwise indicated.
	Consult the Office of the Associate Dean (Academic) for the current list of approved non-technical elective courses which have been chosen to satisfy the Complementary Studies requirements of the Canadian Engineering Accreditation Board.
	<b><i>Anthropology</i></b>
	49-306. Sociology of Women
	<b><i>Interdisciplinary Studies</i></b>
	07-202. Culture and Ideas II 07-203. Culture and Ideas III 02-100. Introduction to Canadian Studies
	<b><i>Multicultural Studies</i></b>
	08-160. Foundations of Civilization
	<b><i>Classical Civilization</i></b>
	11-160. Land of the Pharaohs
	<b><i>English</i></b>
	26-128. Images of Women in Literature
	<b><i>Philosophy</i></b>
	34-110. Introduction to Western Philosophy 34-112. Philosophy and Human Nature 34-129. Contemporary Moral Issues 34-160. Reasoning Skills 34-221. Introduction to Ethics 34-224. Business Ethics 34-226. Law, Punishment, and Morality 34-227. Environmental Ethics 34-228. Technology and Human Values 34-253. Philosophy of Science
	<b><i>Economics</i></b>
	41-117. Introductory Economics: Theory, Practice and Policy
	<b><i>History</i></b>
	43-347. Cities in North America: Historical Urbanization in Canada
	<b><i>Planning</i></b>
	50-191. History and Evolution of Canadian Planning
	<b><i>Political Science</i></b>
	45-100. Introduction to Canadian Government and Politics 45-130. Comparing Politics in a Changing World 45-160. Issues in World Politics 45-212. Environmental Policy and Politics
	<b><i>Psychology</i></b>
	46-115. Introduction to Psychology as a Behavioural Science 46-116. Introduction to Psychology as a Social Science 46-240. Psychology of Sex and Gender
	<b><i>Sociology</i></b>

48-101. Principles and Methods of Sociology  
48-204. Sociology of the Family  
48-205. Sociology of Sex  
48-306. Sociology of Women

***Women's Studies***

53-100. Women in Canadian Society

***Administrative Studies***

71-140. Principles of Management

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### PROGRAM REGULATIONS

Classical Studies are devoted to the examination, analysis, and understanding of the languages, literatures, and history of the ancient Near East, Greece and Rome, and to an exploration of their cultural and linguistic legacies to modern society.

The Modern Languages program is devoted to the study and analysis of world languages in the context of their literary and cultural traditions. In addition to providing the opportunity to learn a new language and explore another culture, the Modern Languages Program focuses on Second Language Education, which explores the process through which a second language is learned. Such knowledge enables our students to become more effective language students and language teachers.

French Studies: The French language is an essential part of Canada's culture, not only for those who become teachers or translators, but also for those who enter the legal profession, the federal or provincial civil service, social work, business, or industry - in short, all walks of life.

Options in French Studies: Students wishing to take French as an option are free to select any course provided that they have demonstrated a sufficient command of the language, and/or sufficient preparation in literary studies.

Not all courses listed will be offered in each term. The programs reserve the right to limit enrollment in language courses and to place students in courses deemed appropriate to their level of language competence.

Native speakers must consult a program advisor for placement. All majors should plan their programs in consultation with an advisor.

Language courses numbered 100/101, 200/201, 220/221, and 300/301 must be taken in sequence unless special permission is obtained from a program advisor.

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## COMPUTER SCIENCE

## PROGRAM REGULATIONS

### ENGLISH PROFICIENCY

Students are highly recommended to take English 26-100 (Composition) as students in Computer Science should develop good oral and written communications skills, besides technical proficiency in the basic science.

### SELECTION OF COURSES

In selecting courses to meet the requirements of the programs outlined below, the following general regulations also must be observed:

- 1) A student registering in a course without having successfully completed the prerequisite course(s) will be required to drop that course unless the consent of Computer Science is obtained.
- 2) If two or more courses cover essentially the same material, only one may be taken for credit.
- 3) The prior approval of Computer Science must be obtained in order to substitute any courses for required ones.
- 4) Statistics courses other than those specifically listed as being required for the degree, or ones for which the required statistics courses are themselves prerequisites, may not be taken for credit.
- 5) In general, Computer Science courses offered in other areas may not be taken for credit. 60-104, 60-106, 60-205, 60-207, 60-270, 60-305, and 60-336 may not be used to satisfy the major requirements of any degree program in Computer Science, or in joint programs with Computer Science, unless permission is obtained from Computer Science.

### GRADE REQUIREMENT

For the purpose of determining course prerequisites and for meeting major requirements for graduation, a minimum grade of C- is required for all Computer Science courses specifically enumerated in the major requirements for that program.

### CALCULATION OF MAJOR AVERAGE

The major average shall be calculated on the basis of the grades received in those Computer Science courses specifically enumerated in the major requirements for that program, and including any grades of less than C-.

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## COMPUTER SCIENCE

### Co-operative Education Program in Computer Science

The Co-operative Education Program is available for the following degrees:  
 Bachelor of Computer Science (Honours) Co-op  
 Bachelor of Science (Honours Computer Information Systems) Co-op  
 Bachelor of Science (Honours Computer Science with Software Engineering Specialization) Co-op

### INTRODUCTION

The Co-operative Education Program offers students the opportunity to combine their classroom experiences with related work experiences. Students who apply and are accepted into the Co-operative Education Program must successfully complete at least three paid work experiences interspersed throughout the four-year Honours program. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's educational program.

### ACADEMIC REQUIREMENTS

Computer Science Co-op students must maintain full-time academic status and satisfy the following:  
 (a) Must maintain a minimum cumulative average of 5.0, and  
 (b) Must maintain a minimum major average of 8.0, and  
 (c) Must not have more than one outstanding F on their transcript.

### SEQUENCE OF WORK AND STUDY TERMS

<i>Year of Study</i>	<i>Fall Semester</i>	<i>Winter Semester</i>	<i>Summer Semester</i>
Year 1	Study	Study	Off
Year 2	Study	Study	Work
Year 3	Study	Work	Study
Year 4	Work	Study	Work
Year 5	Study		

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**DIASPORA STUDIES**

**PROGRAMS**

**Combined Honours Bachelor of Social Work in Social Work and Diaspora Studies**

**Combined Honours in Diaspora Studies**

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## EARTH AND ENVIRONMENTAL SCIENCES

### Co-operative Education Program

The Co-operative Education Program is available for the following degrees:

Bachelor of Science (Honours Geology) Co-op

Bachelor of Science (Honours Geology with Thesis) Co-op

Bachelor of Science (Honours Environmental Geoscience) Co-op

Bachelor of Science (Honours Environmental Geoscience with Thesis) Co-op

The Co-op program aims to provide students with exposure to practical aspects of the Earth and Environmental Sciences during their undergraduate years. The program alternates study terms and three paid work terms, beginning at the end of the second year of study. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's education.

### ACADEMIC REQUIREMENTS:

Earth and Environmental Science Co-op students must maintain full-time academic status and satisfy the following:

(a) Must maintain a minimum cumulative average of 5.0, and

(b) Must maintain a minimum major average of 8.0, and

(c) Must not have more than one outstanding F on their transcript.

### WORK/STUDY SEQUENCE

<i>Year of Study</i>	<i>Fall Semester</i>	<i>Winter Semester</i>	<i>Summer Semester</i>
Year 1	Study	Study	Off
Year 2	Study	Study	Work
Year 3	Study	Study	Work
Year 4	Study	Study	Work

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## EDUCATION

### GENERAL INFORMATION

#### History

The Faculty of Education, University of Windsor, was established on July 1, 1970, thus becoming the seventh Faculty in the University. Its predecessor, Windsor Teachers' College, founded in 1962, trained its students to teach in the elementary schools of Ontario. Integration with the University opened the way to the development of new programs of study designed to prepare candidates for teaching in both elementary and secondary schools.

#### The Role and Mission of the Faculty of Education

The Faculty of Education, University of Windsor, promotes the professional and scholarly growth of teachers at all levels as reflective, caring, competent and innovative educators. We advance knowledge and contribute to the improvement of pedagogical practice through our teaching, our research and scholarly activities, and our community service and development. Our undertakings are informed and shaped by a commitment to equity and social justice.

We approach teaching and learning primarily from a constructivist perspective, which builds upon the philosophical principles of progressive education. Some key elements include student-centred active learning, authentic activity, and integration of prior experiences. We are focused on providing prospective teachers with what they need to know in order to teach diverse student bodies. We value teaching in ways that emphasize the understanding of differences that may arise from diverse cultures, family experiences, multiple intelligences, and learning styles. Informing the design of our pre-service program are the following beliefs:

- effective teachers are able to work with students with a wide range of learning needs, including those with exceptionalities;
- teacher candidates learn best by doing and reflecting, collaborating with skilled professionals, and by sharing their experiences; and
- teacher candidates should be provided opportunities to develop a professional sense of accountability, which includes an understanding of the social and moral responsibilities that underlie the practice of the teaching profession.

The ultimate purpose of the Faculty of Education is to enable teacher candidates to prepare their students to be responsible and productive citizens. We stress to our teacher candidates the importance of recognizing the enormous influence they will have on students. They must continuously evaluate what students are thinking and modify their plans to take into account what they discover. In this regard, we promote the notion that teachers are powerful classroom ethnographers with the ability to analyse and explain to themselves and to others why they do the things they do. We believe teacher candidates should internalize the dispositions and skills needed to study their teaching and take responsibility for their own professional development and lifelong learning.

### GENERAL REGULATIONS AND ENROLLMENT LIMITATIONS

Students who have completed a degree in Education through the consecutive pre-service program, or who have completed Education courses in a Concurrent program, may not count any of the Education courses toward another degree.

The Faculty of Education reserves the right to limit enrollments in any program or individual course of instruction described in this Calendar in cases where the Faculty's teaching and other resources cannot accommodate all of the qualified applicants. In addition, not all courses listed may be offered.

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## ELECTRICAL AND COMPUTER ENGINEERING

### Program Regulations and Information

Electrical Engineering encompasses a large number of exciting and diverse areas of study. Areas such as: electronics, computer systems and networks; communications; energy systems; computer-aided design; control systems, robotics and multimedia are only a few of the directions that Electrical Engineering students can choose after graduation. The program of study includes co-operative work terms for qualified students that are designed to enhance the knowledge and professionalism of the student.

The program of study encompasses courses outside Electrical Engineering and provides a professional education sufficiently fundamental in nature so as to allow the student to choose his or her specific area of professional specialization after graduation. This philosophy of education recognizes that the professional responsibilities of graduate engineers evolve throughout their careers. Student may select courses from the list of electives during the fourth year so as to meet their needs more effectively.

Graduates of this program are able to engage, from the outset of their career, in decision making with a much broader perspective than is possible when excessive specialization at the undergraduate level is permitted. The program of study also provides excellent preparation for those students who may wish to continue their formal education with graduate study and research.

Students must participate in a fourth-year team-based capstone design project that develops leadership skills and professional maturity. Students are encouraged to participate in seminars and in other professional development activities as organized by the Department, as well as off-campus professional activities. The Institute of Electrical and Electronics Engineers (IEEE) has an active student chapter on campus which includes a Women in Engineering AffinityGroup (WIE).

Note: The baccalaureate degree program in Electrical Engineering is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers.

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## ENGLISH LANGUAGE, LITERATURE, AND CREATIVE WRITING

### PROGRAM REGULATIONS

No more than three 100-level English courses may be counted towards the Major requirements for a degree program in English.

Students are required to have completed 26-120, 26-210, and 26-211 by the end of second year, but are urged to take them in their first year.

26-260 will satisfy the Category C (Canadian literature) requirement even if it has already been used to satisfy a 200-level requirement. If 26-260 is used to satisfy both a 200-level requirement and the Category C requirement, the student must take one additional course to bring the total number of courses up to the required number for the degree program.

Requirements for all 300 level English Department courses: Semester three standing, and 26-120; 26-210 or 26-211; and one other English literature course.

### COURSE CATEGORIES

Requirements for degree programs in English make reference to the following groups of courses:

*Literature Courses at the 100- and 200-level:* 26-120, 26-122, 26-123, 26-128, 26-140, 26-201, 26-202, 26-205, 26-210, 26-211, 26-260, 26-270.

*Language and Theory Courses at the 200-level:* 26-280, 26-285, 26-290, 26-291, 26-293.

*Practicum Courses:* 26-302, 26-305, 26-306, 26-307, 26-309.

*Creative Writing Courses:* 26-105, 26-203, 26-304.

*Category A - Early British Literature:* 26-310, 26-312, 26-314, 26-322, 26-323, 26-324, 26-326, 26-327, 26-328, 26-333, 26-334, 26-335, 26-336.

*Category B - Later British Literature:* 26-343, 26-344, 26-346, 26-347, 26-348, 26-349, 26-352, 26-353, 26-356, 26-357.

*Category C - Canadian Literature:* 26-260, 26-361, 26-366, 26-367. (26-260 will simultaneously satisfy a 200-level requirement and satisfy a Category C requirement.)

*Category D - American and World Literatures Written in English:* 26-354, 26-355, 26-358, 26-371, 26-372, 26-373, 26-374, 26-375.

*Category E - Composition, Rhetoric, Linguistics, and Theory:* 26-301, 26-383, 26-392, 26-395, 26-397, 26-399.

*400-level seminars:* 26-411 to 26-420, 26-424, 26-498.

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## FACULTY OF SCIENCE

### STANDING REQUIRED FOR CONTINUATION FOR B.Sc. (GENERAL SCIENCE) DEGREES

1) the minimum requirement for continuation "in good standing" in the General Science program is a cumulative average of 5.0 and an average of 5.0 in the required Science courses of these programs.

2) If a student has not met the minimum cumulative and science course average requirements by the end of the Summer or Fall term, the student automatically will be placed on probation.

3) If, at the end of the Winter term, a student has not met the minimum cumulative and science course average requirements, the student's record will be referred to the Academic Standing Committee for a decision.

(a) If one average is at least 5.0, but the other is between 4.0 and 4.9 (or if both averages are between 4.0 and 4.9), the student normally will be allowed to continue on probation until the next evaluation period.

By the subsequent evaluation period, both averages must be raised to at least 5.0 or the student will be required to withdraw.

(b) If both averages are below 4.0, the student normally will be required to withdraw.

(c) If only one average is below 4.0, the student may be required to withdraw.

4) A student who has been required to withdraw may not register in the Faculty of Science for twelve months and may not apply for re-admission before the subsequent Summer term. The student must apply for re-admission to the Faculty through the Office of the Registrar by the appropriate deadline date for the term desired and must with the application include a statement of rationale and any documentation of academic success attained elsewhere.

Readmission to the Faculty is not automatic and will be dependent upon the Academic Standing Committee's assessment of the applicant's prospects for successful completion of the program.

If readmitted, the student will be placed on probation and must raise the cumulative and science course averages to 5.0 by the next evaluation period and must satisfy any additional conditions of readmission which may have been imposed. If the student fails to meet such requirements, he or she normally will be required to withdraw.

A student who has been required to withdraw a second time will not be eligible for readmission under any conditions.

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## HISTORY

## PROGRAM REGULATIONS

The major areas of concentration include Canadian, American, British, European, and Women's History. Courses are also offered which are designed to provide insight into current national or international issues. Additional offerings which have relevance to contemporary Canadian society include the History of Crime and Cities in North America.

1) History majors taking the minimum number of required History courses (twelve in a general program, or twenty in a four-year Honours program), may obtain credit for only two 100-level History courses. Majors taking additional History courses may count only one further 100-level History course towards their degree requirements.

2) Students taking History as an option may take more than two 100-level courses for credit and may select courses through the 300 level. Permission for 400-level courses is necessary unless these are required in an existing program.

## General Information

The study of history provides skills essential to many careers - in teaching, law, business, museums, journalism, or public service. It develops critical thinking, research, and writing skills, using both old and new technologies, in a small department with ready access to professors. History is also fascinating in itself, offering a window on various groups and perspectives that shaped the past, both in Canada and comparatively across the globe. Finally, studying the societies, politics, and ideas of past times sharpens the historical memory we can bring to issues of the present, informing and inspiring an active citizenship.

## Course Outside of the Department Which May Be Counted Toward History Requirements

Up to four of the following courses may be used to satisfy the Major requirements for any history degree: 12-262, 12-263, 12-271, 12-272, 24-130, 24-230, 40-240, 40-241, 95-240, 01-252. (Please note, instructor's permission may be required.) No more than one of this list may be used to satisfy the requirements for a Minor in History.



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## INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

### PROGRAM REGULATIONS AND INFORMATION

The Industrial and Manufacturing Systems Engineering (IMSE) program is unique and innovative. It provides students with a broad based curriculum of practical real world material that develops engineering skill for which demand exceeds supply in industry, manufacturing and business organizations world wide. Examples of manufacturing assignments held by our IMSE alumni include the areas of Product Engineering, Process Engineering, Plant / Facility Engineering, Tool Engineering, Industrial Engineering and Human Factors. Business organizations such as banks, railroads, petroleum, airlines, insurance companies, and hospitals are also employing our graduates to manage and improve performance of their operations. Our graduates are employed all over the world, in all levels of management and responsibilities. The department has a tradition of highly successful co-op internship education programs with local business and industry in Canada, the United States and the European Union. These activities expose students to applied aspects of their research programs and help them establish strong contacts with potential employers in relevant fields that include design and manufacturing at several local corporate headquarters such as Ford, General Motors, DaimlerChrysler, Toyota, Honda, VW Audi. The combination of real industry experience, cutting edge research and a curriculum that delivers the skill needed by employers provides exceptional value and our degree is valued by others. Enrollment in IMSE is competitive and the department welcomes new student applicants who have a drive to succeed and are prepared to be challenged to top performance.

Students may enrol in a general Industrial Engineering program, or they may specialize in the Supply Chain Engineering Option, a Minor in Business Administration or the Automotive Manufacturing Systems Option. The first and second years are common for all students registered in the Industrial Engineering program. The baccalaureate degree program in Industrial Engineering is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers.

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## FACULTY OF LAW

### GENERAL INFORMATION

The Faculty of Law of the University of Windsor was established in 1967, and the first entering class was admitted in September, 1968. Mark R. MacGuigan was its first dean, succeeded by Walter Tarnopolsky, John McLaren, Ron Ianni, Julio Menezes, Neil Gold, Jeff Berryman, Juanita Westmoreland-Traoré and Brian Mazer, each of whom left their personal mark on the Faculty, contributing to the development of a responsive curriculum and meaningful scholarship. On the 1st of July, 2000, Bruce P. Elman was appointed Dean of Law. The Faculty's commitment to community service has created a unique, socially responsive, and responsible institution dedicated to learning. The Faculty has adopted two institutional themes: Access to Justice and Canada-US Legal Issues.

The Ron W. Ianni Faculty of Law building at Sunset Avenue and University Avenue, was opened by then Governor General Roland Michener in 1970, and contains lecture theatres, class and seminar rooms, faculty offices, and facilities which house the 313,565 volumes of The Paul Martin Law Library, The Windsor Yearbook of Access to Justice, a variety of student organizations, the Legal Profession Research Program, the Canadian-American Research Centre for Law and Policy, the University of Windsor Mediation Services and the student-run Windsor Review of Legal and Social Issues.

The student body has grown from thirty to approximately 500 since 1968, with a Faculty of 31 to 35 scholar-teachers.

At Windsor, law is viewed as a process aimed at the achievement of social ends and justice. Education in the law assists students to understand how legally educated and trained persons may gainfully contribute to the creation and maintenance of the best possible social order.

The Law Faculty has developed a varied, yet purposive program of study in which law is seen as part of complex and dynamic social processes: law touches all aspects of human endeavour and is, in turn, fashioned by it. Law's connection with the humanities and social sciences is inescapable both in study and in action. Critical theory, social science research methods, and sound intellectual analysis combine to inform the student of law about underlying, fundamental values and beliefs. The resources and insights of the humanities and social sciences permit our students an opportunity to understand that law study is inextricably related to social, political, practical, and theoretical issues. In large measure, law is about getting things done; it is practical in its orientation. At Windsor, theory and practice are not polar extremes along a continuum which separate the practitioner from the academic; practice is seen as the implementation of theory and theory as the positing of, among other things, action.

Recognizing that the discipline of law is complex, our aim is to assist students to acquire intellectual skills and habits of mind suited to law practice and a myriad other careers. They are asked to reflect critically upon the legal system, the legal profession, and the law itself. In doing so, they challenge the assumptions which underlie the status quo and propose options which might better serve the public interest. Since law is tied to all aspects of human relations, law study can and must focus beyond legal doctrine.

Because the environment of the law is rich, supported by community projects, scholarly endeavour, and personal interests, those who participate in its program may pursue a directed, yet personally oriented path for personal and professional development.

The Faculty recognizes the need to be responsive to the challenges of the future and remains flexible about scholarly and curricular endeavour. Its commitment to serve the public need is firm. We at Windsor are proud of our accomplishments in our first thirty years. But we will never rest on our achievements, rather we will build upon them.

### The Paul Martin Law Library

The Paul Martin Law Library, with its collection of over 330,000 volumes (including a large microform collection and an audio and video-tape collection), satisfies all student research needs encountered in the study of Canadian law. A rich source of materials is also available for historical and comparative law purposes, dealing with the law of other common law countries, as well as some aspects of select civilian and socialist legal systems.

In addition to exhaustive coverage of Canadian primary legal materials, the library includes good collections of material from Great Britain, certain Commonwealth countries, and the United States. The library's collection of secondary materials, which is drawn largely from the legal literature of the same countries, is also very good.

Use of the Q/L Canadian legal database system is taught by Law Library staff. In addition, training in other computer systems is available: Lexis/Nexis, Westlaw, eCarswell, and other smaller systems, as well as a collection of legal CD-ROM resources.

A well-qualified library staff maintains a program to develop and assist in utilizing this strong, well-balanced collection.

In addition to the facilities of the Paul Martin Law Library, students and faculty have easy access to the Leddy Library of the University of Windsor, with its collection of approximately one and a half million volumes and, in connection with certain courses of study, to other more specialized libraries both in Windsor and Detroit.

### ADMISSIONS POLICY

For information concerning the current admissions policy and procedures of the Faculty of Law, contact:

Applicant Services (Law Division)  
University of Windsor  
Windsor, Ontario  
N9B 3P4  
Phone: 519-253-3000 Ext 6459, 6460, 6461 or 6462  
Fax: 519-971-3653  
Email: lawadmit@uwindsor.ca

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## **FACULTY OF LAW**

## **AWARDS AND FINANCIAL AID**

Numerous awards are available to students entering the Faculty of Law and in-course. The Faculty of Law awards program is administered by the Office of Student Awards under the guidance of the Senate Committee on Student Awards.

For complete details regarding procedures and regulations, as well as descriptions of individual awards, see "Awards and Financial Aid".

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## INTERNATIONAL RELATIONS AND DEVELOPMENT STUDIES

### General Information

Faculty teaching courses that fulfill the requirements for degree programs in International Relations are listed in the "Instructors" section for the areas of Political Science, Economics, History, Geography, Sociology, and Anthropology.

The program in International Relations and Development Studies links courses in several areas of study in order to provide a broad understanding of the dynamics of global society and a useful preparation for a wide variety of careers relating to the international field.

The program draws primarily upon the resources of Political Science, Economics, History, Sociology, and Anthropology. Beyond a common core of nineteen courses, students may choose to emphasize either an International Relations or an International Development stream.

Experience has shown that this long-established and comprehensive program provides an excellent background for careers in diplomatic services, international institutions, internationally-oriented non-governmental organizations, journalism, banking, international business, teaching, and law. The Honours B.A. in International Relations and Development Studies is a challenging program. Students who persevere have found the rewards, especially in terms of future career prospects, to be worth the effort.

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## KINESIOLOGY

### Co-Operative Education Program in Kinesiology

The Co-operative Education Program is designed for highly motivated students who wish to develop their skills, increase their knowledge, and gain career-related experience. Students must first be admitted to Kinesiology and are eligible to apply then for the twenty-five available co-op openings in the Fall of their first term of study.

The following criteria have been established to evaluate such applications:

- 1) academic achievement based on fall term marks;
- 2) previous volunteer and paid work experience;
- 3) an application form and resume;
- 4) an interview with the student.

Admission decisions will be made in the Winter term of the student's first year of study.

Co-operative Program students must complete the course requirements for one of the two Kinesiology majors (Movement Science, and Leisure and Sports Management) and also register during their work terms in courses 95-299, 95-399, and 95-499 successively. Each work term will be graded on a Pass/Fail basis as a result of the successful completion of each of the following:

- Submission of learning objectives approved by the employer
- Work term assessment evaluation by the employer
- Final employer work term evaluation
- Work term report evaluation by faculty and by the employer
- Work term presentation evaluation by faculty

The placement process is competitive. Co-op students will register and apply for work placement positions advertised by the Centre for Career Education using an Internet-Academic software program. Student application documents are forwarded to employers who select the students they wish to interview. Students are also encouraged to compete for placements outside of the advertised postings by completing a guided job search process facilitated by the Centre for Career Education. All co-op positions must be full time, paid and career related.

A Co-operative Program fee is charge in each term beginning with the Winter term of Year 2. The fee is not a job-placement fee, but is levied to help defer the administrative costs associated with the program.

### WORK/STUDY SEQUENCE

#### *Option One*

#### FIRST YEAR

Fall Term: Study term.

Winter Term: Study term.

Summer Term: Off.

#### SECOND YEAR

Fall Term: Study term.

Winter Term: Work term.

Summer Term: Study term.

#### THIRD YEAR

Fall Term: Work term.

Winter Term: Study term.

Summer Term: Work term or optional term.\*

#### FOURTH YEAR

Fall Term: Study term.

Winter Term: Study term.

Summer Term: Work term or optional term.\*

#### FIFTH YEAR

Fall Term: Study term.

\*The requirement of a third work term may be fulfilled in the Summer of either the third or fourth year.

#### *Option Two: Fast-Track*

Students wishing to complete their co-op degree in Kinesiology may do so in four years. This requires careful planning and

scheduling. Students wishing to "fast-track" through their co-op degree are advised to meet with the faculty contact for co-op in Human Kinetics to discuss a strategy.

**KINESIOLOGY: "CORE" COURSES, AREAS OF STUDY, AND FIRST AND SECOND YEAR COURSE SEQUENCE**

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## KINESIOLOGY: COURSES

Not all courses (200 level) listed will necessarily be offered each year.

Kinesiology "Core" courses (200 level) are restricted to students registered as Kinesiology majors.

For Kinesiology major courses (300 & 400 level) non-Kinesiology majors may be admitted only with the permission of instructor.

All courses are three hours a week (3.00 credit hours) unless otherwise indicated.

### 95-103. Introduction to Kinesiology

This course will present an overview of the sociocultural and biophysical sub-disciplines that comprise Kinesiology. Treatment of each sub-discipline will highlight the history of the area, the current state of research and the practical application of principles in Kinesiology to sport, the workplace and activities of daily living. (Open only to non-Kinesiology majors.)

### 95-210. Human Performance

An examination of the role perception and cognition play in our ability to sense, attend to, process, and transmit information during the performance of any motor skill. The course will focus on an information processing approach to examine the processes that underlie our ability to perform motor skills.

### 95-211. Principles of Mental Skills Training

This course surveys the psychological principles underlying cognitive techniques that can be used to improve performance and enjoyment in physical activity environments such as sport and exercise. Among the topics to be explored will be goal setting, anxiety control, and attentional focus.

### 95-225. Ethics in Sport and Physical Activity

A philosophical analysis of sport and physical activity with emphasis on ethical aspects. Ethical theories will be studied as a basis for assessing and understanding decisions and actions of coaches, athletes, officials, and executive members. Case studies covering problem areas will be utilized to enable the student to analyze these decisions and actions.

### 95-230. Sociology of Sport and Physical Activities

An examination of the relationship between sport and society from a variety of perspectives. This examination will include the interaction of sport with other societal institutions and with various social determinants.

### 95-240. Historical Perspectives on Physical Activity and Sport in Western Civilization

This introductory course presents an overview of the significance of physical activity and sport in Western Civilization from ancient Greece to the present by specific reference to selected topics in different eras through which the particular society may be examined. Within this framework, the relationship of physical activity and sport to such factors as economics, politics, and religion will be emphasized, as will its contribution to the culture.

### 95-250. Principles of Sport Management

An introduction and analysis of the effective approaches governing the organization and administration of physical activity and sports programs. Areas of study involve management and programming of physical education and sports programs; finances and budgets; equipment and supplies; planning of indoor and outdoor facilities; time management; and public and human relations.

### 95-260. Physiology of Fitness

An introduction to the physiological systems and the adjustments seen as a result of exercise and exercise training. General topics areas include examination of how aerobic and anaerobic metabolism operate and respond to exercise energy demands, cardio-respiratory responses and adaptations, body composition, and training principles.

### 95-265. Functional Anatomy

An in-depth study of the human musculoskeletal system. Emphasis will be placed on the components of skeletal, muscular, and nervous systems. Joint articulations will be covered in detail. (2 lecture, 2 laboratory hours a week.)

### 95-269. Measurement and Evaluation

An introduction to descriptive and basic inferential statistical techniques with special emphasis on evaluation of data in the various Kinesiology sub-disciplines. (2 lecture, 2 laboratory hours a week.) (Antirequisite: 02-250.)

### 95-270. Research Design

A preliminary course to acquaint the student with proper experimental designs and research paper writing. Statistical interpretation and application are included. Current research topics will be included. (2 lecture, 2 laboratory hours a week.)

### 95-280. Fundamental Mechanics of Human Motion

Presents the quantitative fundamentals of mechanics as they apply to movements of the human body and the sport implements it handles.

**95-285. Human Growth and Development**

A general analysis of the physical, physiological, and psycho-motor development of the individual from conception to adolescence. Special emphasis will be placed on identifying age-appropriate physical activities for children.

**95-299. Co-op Work Experience I**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course cannot continue in the co-op program.)

**95-301. The Use and Abuse of Drugs**

A concentrated study of the actions and effects of drugs, with special emphasis on the use, abuse, and/or involvement of drugs in today's sporting world.

**95-302. Exercise and Fitness Psychology**

An examination of the psychological processes by which healthy and unhealthy behaviours related to physical activity develop and the methods by which behavioural change can be encouraged. Emphasis will be placed on exercise, nutrition, and injury as factors in health-related physical fitness.

**95-310. Motor Learning and Control**

An examination of the processes which underlie the acquisition and control of goal directed human movement. Emphasis will be placed: 1) the factors that affect learning (feedback, attention, memory) and, 2) the simultaneous integration and coordination of body parts involved in movement execution and control. Laboratory experiences will focus on the application of theoretical premises to activities of daily living. (2 lecture, 2 laboratory hours a week.)

**95-311. Psychology of Leisure**

This course examines the psychological aspects of decisions to begin, persist at, and withdraw from leisure activities of interest to physically active people. Among the topics to be discussed will be fitness and nutritional behaviours, recreational sport, traditional forms of movement such as dance and the martial arts, travel and tourism, and the relationships of all of these to the world of work.

**95-325. Philosophy of Sport and Physical Activity**

An examination of the philosophical basis of sport and physical activity. Students will begin to formulate a personal philosophy of sport and physical activity.

**95-333. Applied Sport Psychology**

An examination of the processes by which individual and team athletic performance can be enhanced using mental training techniques based on applications of cognitive and social psychology. Emphasis will focus on individual attentional, anxiety and affect management, and team dynamics.

**95-340. History of the Modern Olympic Movement**

An examination of the historical development of the Modern Olympic Movement. Areas covered include politics, nationalism, gender, commercialism, marketing, and amateurism. The contributions of various athletes and administrators who have helped to shape Olympic history will also be assessed.

**95-345. Sport Marketing**

An application of marketing concepts and activities to the sports domain. Topics include product development, promotions, advertising, publicity, pricing, licensing, market segmentation, and research, as well as the development of a marketing plan for a sport/recreation organization.

**95-350. Organizational Behaviour**

An introduction to the social psychological parameters of sport administration. This course will focus upon the integration of decision-making, communication, administrative behaviour, motivation, satisfaction, authority, conflict, etc., as each interacts and contributes to improve the effectiveness of the administrative process.

**95-351. Strategic Planning of Sport Events**

A study of the strategies and techniques involved in planning and running various intramural-recreational, extramural, and sport events for different environments in the community. Special emphasis will be given to scheduling; pre-event preparation; management of events; program of activities; personnel involved; and structuring tournaments and competitions.

**95-352. Sport Finance**

Introduction to basic theory in finance, budgeting, and accounting applied to the management of sport organizations. Topics may broadly include: financial issues in sport, financial systems and how they operate, types of business structures, basic accounting principles, capital structuring and other sources of revenue, principles of budgeting, taxation, financial ratio analysis, break-even analysis, time value of money, and various other financial concepts as applicable.

**95-355. Socio-Economic Aspects of Sport and Leisure**

An introduction to the interaction of sport and economics. A socio-economic approach is taken to examine such topics as the demand for sport and leisure activities, and sport consumer behaviour.

**95-360. Physiology of Exercise**

To examine the biochemical/physiological systems of the body responsible for maintaining optimal utilization/biosynthesis of

metabolic intermediates during rest, acute exercise, prolonged exercise, and altitude. Also to examine the interaction of metabolism, ventilation, and kidney function during rest/exercise challenges in particular acid-base balance at sea level and altitude. (2 lecture, 2 laboratory hours a week.)

**95-362. Human Factors and Work Performance**

This course will introduce students to the effects of human factors on performance in the workplace. Human performance at work will be explored as a function of: information processing; memory and attention; anthropometry and human variability; health and safety; shift scheduling; the design of displays and controls; and environmental factors including lighting, sound, vibration, and temperature.

**95-370. Scientific Basis of Conditioning**

A study of current concepts in conditioning theories and physiological evaluation. Included in this course are assessment techniques, program design, and other factors affecting physical performance. (2 lecture, 2 laboratory hours a week.)

**95-374. Movement for Young Children**

Designed to introduce students to movement theories and their application to gymnastics, dance, and games for young children. (2 lecture, 2 laboratory hours a week.)

**95-380. Biomechanics of Human Locomotion**

An applied biomechanics course focusing on various aspects of human gait. Particular emphasis will be placed on gait patterns in sport and leisure activities, in the work place, and in activities of daily living. In addition, the course will cover selected topics associated with abnormal gait. (2 lecture, 2 laboratory hours a week.)

*Enrollment in Practice, Theory, and Analysis courses (95-381 through 96-398) is restricted to third- and fourth-year Kinesiology majors, with Semester 7 and 8 majors being given preference up to any enrollment limit. Space permitting, non-Kinesiology students may take these courses with permission of the instructor.*

**95-381. Practice, Theory, and Analysis of Urban Outdoor Recreation**

Utilizing sociological, historical, and philosophical viewpoints this course examines the concept of wilderness, specifically within an urban setting. Using Essex County as the "urban setting," students will explore the breadth of possible recreation activities available and consider their relevance to a broader understanding of recreation, wilderness, and ourselves. (2 lecture, 2 laboratory hours a week.)

**95-382. Practice, Theory, and Analysis of Golf**

Combining physical and analytical techniques this course will assist students to understand and execute golf skills, enhance their abilities in error detection and correction, understand strategy and course management, and be aware and appreciative of golf rules and etiquette. (Additional fee applies.) (2 lecture, 2 laboratory hours a week.)

**95-383. Practice, Theory, and Analysis of Hockey**

Combining physical and analytical techniques this course will assist students to understand and execute hockey skills, enhance their abilities in error detection and correction, and understand and apply the strategies to the offensive, neutral, and defensive zones. (Additional fee applies.) (2 lecture, 2 laboratory hours a week.)

**95-388. Practice, Theory, and Analysis in Football**

The performance of selected football skills with a special emphasis on an applied mechanical analysis. Also involved will be an indepth study of modern offensive and defensive teams and the kicking game. Other areas of study will concentrate on scouting practices and practice planning principles. (2 lecture, 2 laboratory hours a week.)

**95-391. Practice, Theory, and Analysis of Dance: Sociocultural Study of Dance**

A study of the origins, historical development, and function of dance in Western society. Practical laboratory experience will be given in folk, ballroom, and contemporary dance material. (2 lecture, 2 laboratory hours a week.)

**95-392. Practice, Theory, and Analysis of Basketball**

This course combines improvement of individual offensive and defensive skills, application of mental and physical training principles by which basketball performance can be enhanced, rules of the game, and awareness of strategic concepts by which individuals and teams compete. (2 lecture, 2 laboratory hours a week.)

**95-394. Practice, Theory, and Analysis of Volleyball**

Combining physical performance and analytical techniques, this course will assist students in the understanding of skill execution for each of the components of volleyball, enhance their ability to identify and correct errors in execution of skills, and apply the skills to the offensive and defensive strategies of the game. (2 lecture, 2 laboratory hours a week.)

**95-395. Practice, Theory, and Analysis of Aquatics**

This course introduces students to the main components of aquatics. It will assist them in understanding the basic execution of the various swimming stroke. Students will develop their ability to identify and correct errors in the execution of swimming skills, plus be introduced to the basic aspects of water safety and lifesaving skills. (2 lecture, 2 laboratory hours a week.)

**95-397. Practice, Theory, and Analysis of Track and Field**

This course introduces students to the science of track and field. They will be introduced to all track and field events and the progressions associated with each event. Students will be expected to illustrate basic movements for each event and analyze skill movements for all track and field events. (2 lecture, 2 laboratory hours a week.)

**95-398. Practice, Theory, and Analysis of Physical Fitness**

This course introduces students to the main components of fitness instruction. Anatomy, exercise physiology, program

design, leadership, and safety will be reviewed with direct application to fitness instruction. Students will have the opportunity to develop the ability to apply theoretical information to practical exercise experiences. (2 lecture, 2 laboratory hours a week.)

**95-399. Co-op Work Experience II**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course cannot continue in the co-op program.)

**95-400. Human Movement and Aging**

An examination of the physiological, sensory, muscular, and cardiorespiratory mechanisms underlying age-related changes in human movement and motor control. These issues will be explored from cellular to whole-body perspectives incorporating current theoretical approaches to aging. Emphasis will be placed on integrating the role of physical activity into explaining age-related changes in cognition and activities of daily living.

**95-405. Gender Issues in Sport**

A comprehensive overview of the status of women in sport with a view towards understanding the influence of gender upon women and men as consumers of sport in North American culture.

**95-410. Physical Activity for Special Populations**

An examination of populations that have special needs in the area of physical activity (sensory, cognitive, musculo-skeletal impairment). Emphasis will be placed on defining the characteristics of the population, the needs and strengths of each population, and matching the strengths with the appropriate physical activities. Issues of integration, programming, and environmental adaptation will also be considered. Laboratory experiences will focus on the application of the theoretical information. (2 lecture, 2 laboratory hours a week.)

**95-440. History of Sport in Canada**

An examination of the issues and topics related to the historical evolution of sport in Canada. Areas of study include methodology, social class, geography, immigration, native sport, urbanization, industrialization, religion, gender, economics, and government involvement.

**95-450. Human Resources in Sport Management**

An introduction to the tools and systems available for effective decision-making in sport organizations. Topics include sport planning, employee selection and evaluation, time management, compensation, benefits, labour relations, career planning, and problem solving.

**95-451. Sport and the Law**

Introduces students to the principles of law as they relate to Human Kinetics. The principles of law will be related to sport or athletic administration, and to instruction and supervision as it relates to physical and health education and field activities, interscholastic and intercollegiate programs, as well as, other recreational and leisure pursuits.

**95-452. Sport and Government**

An analysis of national and international sport in the context of government involvement at the provincial and national levels.

**95-453. Perceptual-Motor Development**

This course examines perceptual-motor development of infants and children, bringing together theoretical perspectives from psychology, biology, neuroscience, biomechanics, and ethnology. An interdisciplinary perspective is used to study the interaction of developmental processes. The emergence, normal development, and assessment of selected perceptual-motor skills will be examined in detail. (2 lecture, 2 laboratory hours a week.)

**95-454. Co-operation and Conflict in Sport**

Group interactions in athletics tend toward conflict. An investigation of sport and athletic organizations, their goals, methods of attaining these goals, and obstacles to such achievement. Special emphasis on individual and group interactions.

**95-460. Cardiovascular Physiology**

The study of the cardiovascular system, anatomy, electrophysiology, mechanics, and responses to stressors. (2 lecture, 2 laboratory hours a week.)

**95-463. Applied Neurophysiology**

Mechanisms underlying human movement in healthy, diseased, aged and trained states will be examined by studying the integrated actions of the neural, somatosensory and motor systems. Emphasis will be placed upon sensory transduction, reflexes and the descending motor system.

**95-465. Ergonomics and Injury-Prevention**

Examination of topics in applied ergonomics as they pertain to reducing the risk of musculoskeletal injuries in the workplace. Students will gain practical experience in applying quantitative and qualitative ergonomic assessment tools. Topics include: the mechanisms of upper limb and low back injuries, the principles of redesigning operations to reduce injury risk, and techniques for optimizing the feasibility that ergonomic changes will be implemented. Includes experience in an occupational setting. (2 lecture, 2 laboratory hours a week.)

**95-471. Physiological Basis of Sports Therapy**

A physiological examination of athletic injuries and their therapy. Topics to include the prevention of and pathology of

injuries, as well as the care of injuries and rehabilitation techniques. (Additional laboratory fee applies.) (2 lecture, 2 laboratory hours a week.)

**95-473. The Social Construction of Leisure**

An examination of leisure as a social activity which is shaped by various societal institutions and social relations.

**95-475. Individual Studies**

The student will select an approved topic and under direction investigate and report on it. (Prerequisite: consent of the instructor is required at least three weeks prior to the end of the Fall or Winter term preceding the term in which enrollment is anticipated.) (Hours to be arranged.)

**95-476. Principles of Coaching**

A critical study of various issues that confront the modern-day coach. Areas of study involve effective coaching techniques; person attributes; motivation and discipline approaches; dealing with problem athletes; and coach-player communication. Stress will be placed upon developing a sound beginning philosophy of coaching, along with looking at the coach as a professional person.

**95-477. Outdoor Recreation**

Through guided discovery and experiential learning, this course provides knowledge about the outdoors as an alternative recreational medium that fosters deeper awareness of nature, wilderness, and ourselves. Offered in the Fall term before the start of classes. (Prerequisite: demonstrated swimming competence.) (Additional fee applies.)

**95-480. Advanced Biomechanics**

Introduces students to advanced concepts and techniques required in quantitative biomechanical analysis. (2 lecture, 2 laboratory hours a week.)

**95-485. Group Dynamics in Sport**

The central purpose of this course is to explore individual human behavior in a sport and physical activity context from a group dynamics perspective. Emphasis will be placed on understanding group-based psychological concepts which are pertinent to the field of sport and physical activity.

**95-490. Special Topics**

Courses in which current topics associated with Kinesiology are examined.

**95-498. Internship**

A supervised, project-driven work experience in an approved setting. The experience will be expected to provide students with an enriched learning opportunity to integrate theory and practice. Internships are open to 4th year Kinesiology students from either major. (Offered on a Pass/Non-Pass basis.) (Prerequisite: consent of the instructor is required at least three weeks prior to the end of the Fall or Winter term preceding the term in which enrollment is anticipated.) (9 hours a week.)

**95-499. Co-op Work Experience III**

Supervised experience in an approved career-related setting with a focus on the application of theory and the development of transferable skills. The co-op work experience is designed to provide students with an enriched learning opportunity to integrate academic theory and concepts in an applied setting. (Prerequisite: Student must be enrolled in a co-operative education program. Offered on a Pass/non-Pass basis. Supervised practicum requires the successful completion of a minimum of 420 hours. Students who do not pass the course cannot continue in the co-op program.)

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## LANGUAGE AND LOGIC

### General Information

The Bachelor of Arts four-year Combined Honours degree program in Language and Logic provides students with the ability to engage in effective and reasoned communication. To acquire this specialized knowledge, students are provided with a thorough foundation in language theory, linguistics, writing and composition, various communication media, speech, rhetoric, logic and reasoning skills. Students will also be introduced to another language.

Although the Language and Logic Combined Honours degree program is administered by Languages, Literatures and Cultures, faculty members teaching in the program come from several different programs. They are listed under the "Instructors" section in the program in which they normally offer courses. Courses that fulfill the requirements of the degree are offered by Communication Studies, Computer Science, English, French, Modern Languages and Philosophy.

The Language and Logic program must be combined with another program in a double major. Among the natural choices of a second major are any of the disciplines which contribute courses to the program. However, students may select almost any other discipline as a second major.

Students wishing to major in the Language and Logic program must contact Languages, Literatures and Cultures to obtain academic counselling. Future plans to enroll in a graduate or professional program should be taken into account when choosing the second major or optional courses.

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## MATHEMATICS AND STATISTICS

### Program Regulations

All programs in Mathematics are subject to the general University and Faculty of Science regulations as outlined in the relevant sections of this calendar. Additionally, Mathematics majors must obtain a grade of C- or better in each Mathematics or Statistics course which is explicitly required in their program of registration. Students registered in the combined Mathematics and Computer Science Honours program also must obtain a grade of at least C- in all required Computer Science courses.



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## MECHANICAL, AUTOMOTIVE, AND MATERIALS ENGINEERING

### PROGRAM INFORMATION

Students may take a regular program in Mechanical Engineering, or they may specialize in Engineering Materials or Automotive Engineering as described below.

The baccalaureate degree program in Mechanical Engineering is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers. Mechanical engineers are responsible for the design, construction, maintenance, and operation of machines and systems of machines. They create, plan, research, supervise, analyze, and generally act as the professionals of mechanical technology.

The mechanical engineer's knowledge and skills are needed in many industries, such as: heating, ventilating, and air conditioning; transportation; power generation and distribution; metal production and processing; manufacturing; and chemical and electrical equipment. Mechanical engineers commonly go beyond the limits of purely mechanical work. They are found at all levels of management in private industry and the public sector.

Students in the regular program specialize by selecting six elective courses. These courses may be selected from those offered in the areas of: air conditioning; dynamics and stress analysis; vibrations and noise; and gas dynamics and turbomachinery.

### AUTOMOTIVE ENGINEERING

Students interested in the Automotive Option begin their specialization in the Summer term of their third year. The Option includes four required courses and two technical electives.

### ENVIRONMENTAL ENGINEERING

Students interested in the Environmental Option begin their specialization in the Summer term of their third year. The Option includes five required courses and one technical elective.

### ENGINEERING MATERIALS

Students interested in the Engineering Materials Option begin their specialized studies in the Summer term of their third year. The Option includes a series of four required and two elective courses. Engineering Materials courses include modern developments in such areas as steels, casting, polymers, environmental degradation and novel processing techniques.

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## MUSIC

### PROGRAM REGULATIONS

1) Advanced Standing Examinations: Upon admission to a Music program a student may petition to write advanced standing examinations in 32-112, 32-113, 32-212, 32-213, 32-222, 32-223, 32-322, 32-323, and 33-111.

2) Program Approval: B.Mus., B.Mus.Th., B.A. Combined Four-Year Honours students must have their programs approved by an advisor prior to registration. All applications for graduation will be subject to approval and such approval will be granted only when the academic program completed is identical with that previously approved by the academic advisor in consultation with the student.

3) Keyboard Proficiency Requirement: Keyboard skill is a valuable tool for learning in all aspects of music, and also an important asset for all careers in music. Students in the B.Mus., and B.Mus.Th. programs are required to demonstrate this skill by meeting the keyboard proficiency requirement set by Music. The requirement includes playing scales, chords, and arpeggios; sight reading a four-part chorale; and playing a prepared composition of approximately Grade 6 Conservatory level. The requirement must be met before students in the B.Mus., and B.Mus.Th. programs register for any Music course beyond their second term. Instruction is offered in the lab portion of Theory I and II (32-112 and 32-113).

4) Recital Attendance Policy: Attendance at a significant number of live musical performances will broaden a student's musical experience and thus enhance and contribute to the potential for academic success. Therefore, a Recital Attendance Policy has been developed, embracing outside music events in addition to recitals and special events offered internally. This policy applies to all full-time students in the B.Mus. and B.Mus.Th. programs during each year of registration. Details for the current academic year (i.e., number of concerts and other events to be attended) are announced during the first week of classes in September.

### AREAS OF STUDY

Requirements for programs in Music make reference to the following groups of courses:

#### Areas of Study-Academic

*History and Literature (Musicology):* 32-106, 32-107, 32-116, 32-117, 32-126, 32-127, 32-227, 32-236, 32-237, 32-246, 32-247, 32-317, 32-327, 32-336, 32-337, 32-346, 32-426, 32-427, 32-436, 32-437, 32-494.

*Theory and Composition:* 32-102, 32-112, 32-113, 32-212, 32-213, 32-222, 32-223, 32-312, 32-313, 32-322, 32-323, 32-332, 32-342, 32-343, 32-412, 32-413, 32-422, 32-423, 32-443, 32-494.

*Methods and Pedagogy (Music Education):* 32-185, 32-239, 32-248, 32-249, 32-255, 32-259, 32-260, 32-261, 32-269, 32-279, 32-289, 32-458, 32-459, 32-470, 32-471, 32-484, 32-485.

*Music Therapy:* 32-120, 32-121, 32-330, 32-331, 32-340, 32-341, 32-420, 32-440, 32-441, 32-490.

#### Areas of Study-Performance

*Performance Studies:* 33-111, 33-213, 33-360, 33-414, 32-494.

*Ensembles:* 33-210, 33-220, 33-230, 33-240, 33-260, 33-270, 33-310, 33-330, 33-380.

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Course requirements include a fifteen-minute examination before a faculty jury at the end of each term of study, as well as the attainment of the appropriate Level of Achievement. When required, a major recital may substitute for the jury examination. Students should consult Music for specific details regarding curricula for these examinations.</p> <p>These courses are available to Bachelor of Music and Bachelor of Music Therapy, students with the approval of a program advisor in music. These students will elect their major instrument at the time of their admission.</p> <p>Subject to availability, these courses are open to other students upon successful completion of a qualifying audition. It is the responsibility of the student to arrange for a qualifying audition by contacting Music not later than the end of the first week of classes. Students who fail to do so will relinquish their right to attend such classes and must complete the normal procedure for dropping a course as outlined on the "Course Change Form."</p> <p>Performance courses are intended to be taken in consecutive semesters. Any interruption in study must be followed by an audition for re-entry into the performance course sequence. The audition will be scheduled in consultation with the Performance Area Chair at the beginning of the semester.</p> <p>Private instruction courses may be repeated for credit.</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 33%;"></th> <th style="text-align: left; width: 33%;"><b>3.00 Credit Course</b></th> <th style="text-align: left; width: 33%;"><b>1.50 Credit Course</b></th> <th style="text-align: left; width: 33%;"><b>Instrument</b></th> </tr> </thead> <tbody> <tr><td></td><td>33-347</td><td>33-317</td><td>Voice</td></tr> <tr><td></td><td>33-348</td><td>33-318</td><td>Piano</td></tr> <tr><td></td><td>33-349</td><td>33-319</td><td>Organ</td></tr> <tr><td></td><td>33-351</td><td>33-321</td><td>Harpsichord</td></tr> <tr><td></td><td>33-352</td><td>33-322</td><td>Flute</td></tr> <tr><td></td><td>33-353</td><td>33-323</td><td>Oboe</td></tr> <tr><td></td><td>33-354</td><td>33-324</td><td>Clarinet</td></tr> <tr><td></td><td>33-355</td><td>33-325</td><td>Saxophone</td></tr> <tr><td></td><td>33-356</td><td>33-326</td><td>Bassoon</td></tr> <tr><td></td><td>33-357</td><td>33-327</td><td>French Horn</td></tr> <tr><td></td><td>33-358</td><td>33-328</td><td>Trumpet</td></tr> <tr><td></td><td>33-359</td><td>33-329</td><td>Trombone</td></tr> <tr><td></td><td>33-361</td><td>33-331</td><td>Euphonium</td></tr> <tr><td></td><td>33-362</td><td>33-332</td><td>Tuba</td></tr> <tr><td></td><td>33-363</td><td>33-333</td><td>Violin</td></tr> <tr><td></td><td>33-364</td><td>33-334</td><td>Viola</td></tr> <tr><td></td><td>33-365</td><td>33-335</td><td>Cello</td></tr> <tr><td></td><td>33-366</td><td>33-336</td><td>Double Bass</td></tr> <tr><td></td><td>33-367</td><td>33-337</td><td>Percussion</td></tr> <tr><td></td><td>33-368</td><td>33-338</td><td>Harp</td></tr> <tr><td></td><td>33-369</td><td>33-339</td><td>Classical Guitar</td></tr> <tr><td></td><td>33-371</td><td>33-341</td><td>Applied Jazz/Pop</td></tr> </tbody> </table> <p><b>Performance Instruction - For Music Students in Non-professional degree programs (BA in Music or Combined BA in Music) and for non-Music Students</b></p> <p>The following courses offer performance instruction within the format of a group master class. As part of this course, students may take optional weekly private lessons for which there is a private lesson fee. Course requirements include a performance examination before a faculty jury at the end of each term of study, as well as the achievement of the appropriate Level of Achievement. Students should consult the School of Music for specific details regarding curricula for these examinations.</p> <p>It is the responsibility of the student to arrange for a qualifying audition by contacting the School of Music not later than the end of the first week of classes. Students who fail to do so will relinquish their right to attend such classes and must complete the normal procedure for dropping a course as outlined on the "Course Change Form." Private instruction courses are intended to be taken in consecutive semesters. Any interruption in study must be followed by an audition for re-entry in</p>		<b>3.00 Credit Course</b>	<b>1.50 Credit Course</b>	<b>Instrument</b>		33-347	33-317	Voice		33-348	33-318	Piano		33-349	33-319	Organ		33-351	33-321	Harpsichord		33-352	33-322	Flute		33-353	33-323	Oboe		33-354	33-324	Clarinet		33-355	33-325	Saxophone		33-356	33-326	Bassoon		33-357	33-327	French Horn		33-358	33-328	Trumpet		33-359	33-329	Trombone		33-361	33-331	Euphonium		33-362	33-332	Tuba		33-363	33-333	Violin		33-364	33-334	Viola		33-365	33-335	Cello		33-366	33-336	Double Bass		33-367	33-337	Percussion		33-368	33-338	Harp		33-369	33-339	Classical Guitar		33-371	33-341	Applied Jazz/Pop
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to the performance course sequence. The audition will be scheduled in consultation with the Performance Area Chair at the beginning of the semester.

Bachelor of Music or Bachelor of Music Therapy students may also opt to take Performance Instruction courses in any secondary instrument/voice of their choice, classical or jazz/pop. These courses involve the 33-200 performance series and may be taken in addition to, not in replacement for the required 33-300 performance series. The courses may not be taken by Bachelor of Music or Bachelor of Music Therapy students to meet the specific degree requirements in Performance Studies.

Applied instruction courses may be repeated for credit.

<b>3.00 Credit Course</b>	<b>Instrument</b>
33-247	Voice
33-248	Piano
33-249	Organ
33-251	Harpichord
33-252	Flute
33-253	Oboe
33-254	Clarinet
33-255	Saxophone
33-256	Bassoon
33-257	French Horn
33-258	Trumpet
33-259	Trombone
33-261	Euphonium
33-262	Tuba
33-263	Violin
33-264	Viola
33-265	Cello
33-266	Double Bass
33-267	Percussion
33-268	Harp
33-269	Guitar
33-271	Applied Jazz/Pop

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	<b>NURSING</b>
	<b>Mission Statement</b>
	The mission of the University of Windsor baccalaureate nursing programs, in collaboration with its partners, St. Clair College and Lambton College, is to prepare graduates who will practice in partnership with clients, families, communities, groups, and service providers to facilitate the promotion, achievement, and maintenance of optimal levels of health.
	The scope of the program includes teaching scientifically-based nursing practice using theory, clinical skills, and research findings in the care of individuals, families, groups, and communities. In recognition of the evolving nature of the global community and changing health care systems, critical thinking and creative problem solving are emphasized through the use of professional skills such as: communication, caring, problem solving, decision making, teaching, learning, management, and change.
	Students have opportunities to provide leadership within nursing while practicing in a variety of Canadian and international health care facilities and community settings, both traditional and non-traditional. The Faculty fosters personal and professional development and ethical accountability, preparing nurses for changing and expanding roles.
	<b>Philosophy</b>
	The philosophy of the Faculty of Nursing at the University of Windsor is outlined in the following statements about our beliefs relative to health, individuals, nursing, learning, teaching, and environments:
	<i>HEALTH</i>
	Health is a dynamic process whereby the individual, family, or group is able to realize aspirations, satisfy needs, and change or cope with the environment. Health is a resource for everyday life. It is a positive concept emphasizing social and personal resources as well as physical capacity. Health is the goal of all nursing behaviours.
	<i>INDIVIDUALS</i>
	Individuals are unique holistic persons with inherent dignity and are worthy of respect and care. Individuals have freedom of choice and are accountable for these choices. Individuals are capable of entering reciprocal caring relationships which foster health, growth, and self-actualization.
	<i>NURSING</i>
	Nursing is a humanistic, caring process, the goal of which is to help individuals, families, groups, and communities achieve and maintain an optimal level of health consistent with their abilities and desires. Nurses, in collaboration with members of the health team and other service providers build on strengths and address health variations to facilitate client maturation and adaptation.
	<i>LEARNING/TEACHING</i>
	Learning is an individualized activity and involves learners' personal goals, perceptions and unique learning style. Learning is goal oriented and an active life-long process of change and development. Teaching is a facilitative process through which learners are guided and supported. It involves communication, clearly defined goals, appropriate learning activities and a climate conducive to growth. The curriculum is multi-disciplinary and aims to provide the learners with opportunities for intellectual and professional development.
	<i>ENVIRONMENTS</i>
	Environments are milieus within which individuals, families, groups, and communities strive to achieve optimal health. As human beings attempt to mature and adapt within their environments, there are dynamic interactions which can serve as a source of growth. Environments encompass psycho-social, cultural, religious, political, economic, and physical contexts which impact upon the efforts of all.
	<b>Program Outcomes</b>
	By the end of the program, graduating students will be able to:
	1. Implement behaviours to promote personal and professional self-development.
	2. Integrate the ethical, legal, professional and regulatory parameters into Nursing practice.
	3. Formulate clinical judgements that are based on critical inquiry and analytical reasoning.
	4. Integrate nursing and multi-disciplinary knowledge into nursing practice.
	5. Integrate research findings into clinical practice, education and management.

6. Implement the nursing process to promote, maintain and restore the health of individuals, families, groups and communities.
7. Use the teaching/learning process to promote the health of individuals, families, groups and communities.
8. Collaborate with clients, their families, communities, members of the health team and other organizations for the promotion, achievement and restoration of optimal health.
9. Integrate leadership and management roles into the delivery of health care.
10. Engage in activities to promote the development of the profession of nursing.

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	<b>NURSING</b>
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	The considerations listed below apply to admission to all Nursing programs.
	<b>Degrees in Other Disciplines</b>
	Special consideration may be given to applicants holding degrees in other disciplines.
	<b>Admission by Transfer</b>
	A student who wishes to transfer from another university's Faculty of Nursing is required to submit an official transcript of records, descriptions of courses taken and a statement of reason for transfer. This statement of reason is subject to verification.
	A minimum grade of C- must have been obtained in each course for it to be considered. Official transcripts and course descriptions should be submitted no later than two months prior to the first day of classes.
	<b>Prior Nursing Courses</b>
	University courses taken within seven years prior to admission or readmission to any nursing program may be considered for credit.
	<b>Selection for Admission</b>
	Preference will be given to applicants with the best qualifications. Selection of candidates for admission to the various programs will be based on criteria determined by the Faculty of Nursing Admissions Committee.
	<b>Advanced Standing Examinations</b>
	Registered Nurse students who wish to write advanced standing examinations in Psychology 46-115, Sociology 48-101, and Nursing 63-230, must petition the academic unit concerned for permission to write any or all of the above examinations within the first two terms of the program. The application for 63-230 must be submitted by June 30.
	Registered Nurse students may also be permitted to write advanced standing examinations in 63-331, 63-333, and 63-433. These examinations are available only to those registered nurses who can demonstrate via a portfolio prior knowledge of the course content. Portfolios for 63-433 must be submitted by June 30 for evaluation. Portfolios for 63-331 and 63-333 must be submitted by November 15 for evaluation. A non-refundable fee will be applied for each portfolio evaluated.
	Advanced standing examinations for 63-230 and 63-433 will be offered within two weeks after the beginning of Fall classes. Advanced standing exams for 63-331 and 63-333 will be offered within two weeks after the beginning of Winter classes. Students who pass these examinations will have the notation "Advanced Standing by Examination" entered on their transcripts. The normal charge for advanced standing examinations will be applied. Students who are unsuccessful are not permitted a second challenge attempt and must take the course.
	Post-Diploma students who have Canadian Nurses Association (C.N.A.) Specialty Certification may use it in lieu of the Nursing elective.
	<b>Health Requirements</b>
	Students in the first year of all nursing programs must submit to the Dean of the Faculty of Nursing during the first week of classes a Faculty of Nursing Student Health Record. This record which includes a physical examination, immunization for health care workers, and tuberculosis screening, must be certified by a nurse practitioner or a physician. In subsequent years, all students, prior to each clinical experience, must submit documentation of tuberculosis status and update of immunizations, as appropriate.
	<b>Other Requirements</b>
	1) Students must submit a birth certificate to the Dean of the Faculty of Nursing during the first week of class. This does not apply to Registered Nurse students.
	2) Students are responsible for their own travel and living expenses incurred in clinical nursing experiences, including the consolidation ex-periences. Additional costs may be required by some clinical agencies.
	3) Students are responsible for supplying their own uniforms and accessories. Details pertaining to uniforms and accessories will be sent to those admitted to the program.

4) Applicants who accept admission into all nursing programs are required to possess a valid first aid certificate and a basic rescuer (level C) course certificate in Cardio Pulmonary Resuscitation. Yearly CPR recertification is required. A copy of these forms are to be submitted to the Faculty of Nursing.

5) An extended Police Clearance is mandatory on entry and renewed as required by agencies. A letter of request is available in the Nursing Office. This is the financial responsibility of the student.

#### **COLLABORATIVE HONOURS B.Sc.N. PROGRAM**

1) Six Grade 12 "U" or "M" courses including Grade 12"U" English, Chemistry, and Biology, or their equivalents. One Grade 12"U" Mathematics or equivalent is recommended.

2) An interview with the Faculty of Nursing Admissions Committee may be required.

#### **One-year Pre-Health Science Nursing Program**

Students at Lambton College who successfully complete the one-year Pre-Health Science-Nursing Program with a minimum overall grade point average of 2.7 (B), and a minimum science subject average of a 2.7 (B) in BIO 100-5, BIO 220-5, CHM 110-6 and CHM 210-6, will be considered for admission to the BScN Program.

Students at St. Clair College who successfully complete the one-year Pre-Health Science-Nursing Program with a minimum overall grade point average of 2.7 (B), and a minimum science subject average of (2.7) (B) in GAS 11, GAS 21, GAS 11A and GAS 21A, will be considered for admission to the BScN Program.

#### **POST-DIPLOMA B.Sc.N. PROGRAM**

1) Graduation from an approved basic Diploma program with a minimum GPA of 2.7.

2) Nurse registration in Canada for the current year, pending Ontario registration.

3) University entrance-level English, Mathematics, Biology and Chemistry are recommended.

4) A currently valid certificate in C.P.R. at the Basic Rescuer level.

5) A letter of reference from current or most recent employer.

6) An interview with the Faculty of Nursing Admissions Committee may be required.

7) An extended Police Clearance is mandatory and financial responsibility of the student. Letters of request are available in the Nursing Office.

#### **TWELVE-MONTH, PRIMARY HEALTH CARE NURSE PRACTITIONER CERTIFICATE PROGRAM FOR DEGREE-PREPARED NURSES**

1) The applicant must have a Bachelor of Science in Nursing which includes physical assessment, statistics, and a research methods course. An interview with the Faculty of Nursing Admissions Committee may be required. A letter of reference from current or most recent employer is required and a minimum overall nursing average of 70%.

2) Applicants must hold or be eligible for a current certificate of registration as a registered nurse with the College of Nurses of Ontario.

3) Preference will be given to Ontario residents whose work experience in nursing has been continuous and who have clinical experience in one or more of the following areas: primary health care, ambulatory care, public health, community health, long-term care, emergency care, or outpost nursing.

4) Applicants must have the equivalent of two years full-time relevant nursing practice within the past five years.

Note: This is a limited enrollment program. Therefore, possession of minimum published requirements does not guarantee admission.

Information must also be obtained on the internet at <http://np-education.ca>.

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	<b>NURSING</b>
	<b>PROGRAM REGULATIONS</b>
	Students are directed to become familiar and to comply with the general regulations of the University which apply to all students. Additionally, students must comply with the regulations particular to Nursing programs.
	1) For promotion and graduation the following are required: A minimum grade of a C- in each nursing theory course; a pass in each clinical experience; a pass in each laboratory component of each clinical experience; an overall 5.0 average.
	2) A minimum grade of B- is required in each Primary Care Nurse Practitioner course. Furthermore, not more than one course may be repeated once.
	3) Students failing a clinical course may be required to complete make-up prior to re-taking the course.
	4) No student may repeat a required nursing course more than once. No more than two required nursing courses may be repeated.
	5) The program of studies for the four-year basic degree or the program for Registered Nurses must be completed within seven years from the first Nursing course (63-).
	6) Students must attend all clinical nursing experiences and laboratories unless they have permission from the professor and/or a medical certificate to account for absence.
	7) In the clinical courses, students must achieve all course outcomes and critical elements.
	8) The consolidation experience for Years 2 and 3 will commence on the first day of Interession. Clinical Nursing experiences may be arranged during day or evening shifts as well as weekends, and consolidated as necessary. Nights may be arranged at senior level and/or consolidation where deemed educationally appropriate and necessary by the Faculty of Nursing.
	9) While taking 63-278 and 63-378 students may not take any other course.
	10) No more than sixteen courses may be taken at the 100 level.
	11) Students who are required to upgrade or who wish to maintain their clinical skills must repeat the appropriate clinical course for credit, effective September 1999.
	12) Students who are required to repeat a nursing course must notify the Undergraduate Program Co-ordinator, in writing, of their desire to return, by June 30. If a student fails to do so, a clinical placement cannot be guaranteed.
	13) Students who intend to register for 63-432 must notify the Undergraduate Program Co-ordinator by June 30 so that clinical placements can be arranged for the Fall term.
	14) The Faculty of Nursing reserves the right to remove a nursing student from the clinical area at any time, in instances where the instructor has reason to believe that the student is rendering unsafe and/or unethical nursing care. Post-Diploma students must be in good standing with the College of Nurses of Ontario in order to remain in the program.
	15) Students of the Faculty of Nursing are required to demonstrate behaviours consistent with the University of Windsor standards of acceptable behaviour (see Senate Bylaw 31) and the Professional Standards for Registered Nurses and Registered Practical Nurses; the Standards for the Therapeutic Nurse-Client Relationship; the Ethical Framework for Nurses in Ontario; and the Explanation of Professional Misconduct of the College of Nurses of Ontario; and of the academic policies of the University of Windsor.
	Failure of any Nursing student to conform to the principles of these documents may result in dismissal from any of the Faculty of Nursing programs.
	<i>Note:</i> The College of Nurses of Ontario requires that in order to obtain permission to write Nurse Registration Examinations and/or apply for Nurse Registration in Ontario, a person must provide a declaration of one's status regarding: (a) any conviction of a criminal offense under the Narcotic Control Act and the Food and Drugs Act; (b) being a subject of proceedings with respect to professional misconduct, incompetence, or incapacity in Ontario in another health profession or in another jurisdiction in nursing or in another health profession; (c) any mental or physical disorder which makes it desirable in the public interest that the person not practice; (d) a current police clearance within six months of examinations. Further Information Applicants wishing to discuss the program or visit the Faculty of Nursing should contact the campus (519-253-3000, Ext. 2258). Information may also be obtained from the Internet: <a href="http://www.uwindsor.ca/nursing">www.uwindsor.ca/nursing</a> .
	<b>Major Clinical Resources</b>

Nursing is a profession of diverse opportunity. Clinical experiences are found in a variety of settings.

Examples of the diversity of placements for nursing students are hospitals, public health agencies, visiting nurse organizations, family support services, doctors offices and clinics, day care centres and preschools, elementary and high schools, new Canadian multi cultural programs, First Nations groups, seniors residences and services, and caring for challenged populations. On campus, practice is done in independent learning laboratories and simulated situations. These experiences and more, lay the foundation for professional nursing.

#### **Awards and Scholarships**

Nursing Entrance Awards and Scholarships are offered to students enrolled at the University of Windsor, Faculty of Nursing.

#### **NURSING: MISSION AND PHILOSOPHY STATEMENTS AND PROGRAM OUTCOMES**

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## PHILOSOPHY

### PROGRAM REGULATIONS

*Academic Advising:* All students majoring in Philosophy or intending to declare a Minor in Philosophy will be assigned an academic advisor. Students should plan their programs in consultation with their advisors prior to course selection each term. Students planning to take a Philosophy course as an option are welcome to consult the instructor.

Either 34-110 or 34-112 is a good introduction to Philosophy in general.

### AREAS OF STUDY

Most philosophy courses are intended for students majoring in other subjects who desire a well-rounded liberal arts education, as well as for philosophy majors. Students who might want to take more than one philosophy course are advised to check the prerequisites of courses numbered in the 200s and 300s. 34-110 or 34-112 are good introductions to philosophy in general.

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## PHYSICS

### Program Regulations

All options must be approved by Physics.

### Program Information

Programs of study leading to the Bachelor of Science degree in Physics and High Technology (PHT), Honours Physics and Computer Science, and Honours Chemistry and Physics are offered. The Physics and High Technology degree has both a Co-op and a Fast-track option. The Fast-track option allows graduation after three years. With proper choice of options, students can graduate with a minor in Business. There is also a Physics and High Technology option for Electrical and Computer engineers, and combined Honours programs with other disciplines can be arranged. All programs are subject to the general University and Faculty of Science regulations as outlined in the relevant sections of this calendar.

Graduates from the PHT program with honours standing can normally expect to enter directly into the M.Sc. Program in Physics at Windsor and other Canadian universities. They will also be eligible for entry into most M.A.Sc. Programs in Electrical Engineering, although additional qualifying work may be required in some cases.

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	<b>SOCIAL WORK</b>
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	<b>Honours Bachelor of Social Work</b>
	<i>Years 1 and 2:</i> Admission to the pre-professional program is governed by the general requirements of the University. A minimum of twenty courses (including four Social Work courses, 47-117, 47-118, 47-210 and 47-304, a statistics course, two Science courses, and ten courses from Arts, Languages and Social Sciences) is required prior to admission to Year 3.
	In preparation for application to the professional program in Year 3, students are strongly encouraged to engage in volunteer experiences in human services agencies and organizations in the community.
	Aboriginal peoples, persons with disabilities, and members of visible minorities are encouraged to apply.
	<i>Years 3 and 4:</i> Admission to the professional program in Year 3 requires that students apply to the Office of the Registrar prior to February 1. Applications are available on the School of Social Work website and from the Office of the Registrar. A minimum average of 8.0 in Social Work courses is required and a cumulative average of 8.0 is encouraged. References must accompany the application. An interview may be required, and early applications are encouraged. Entry is for the next Fall term only, and enrollment is limited. Students who are accepted to Year 3 will be notified by the Office of the Registrar. Selection of candidates for admission will be based on grades and other relevant criteria determined by the Social Work Admissions Committee.
	The Year 3 and 4 accredited professional Social Work program is intended for full-time study. A full-time course load in years 3 and 4 is defined as 6 courses per term. Students who are not able to attend on a full-time basis at any point after admission to the program must seek advice from the School of Social Work. Students who have not taken a course in the Social Work program within one calendar year of admission will be required to leave the program so that other applications may be accommodated.
	<i>Time for degree completion:</i> Students are expected to complete their degree plan of study on a full-time basis. Those who may require additional time to complete their degree requirements must present their request in writing to the Undergraduate Studies Admission and Retention Committee. Requests from persons with disabilities requiring accommodation are welcomed.
	<i>Transfer from other programs:</i> Applicants transferring from other programs will be assessed individually by the Office of the Registrar and are subject to the same admission procedure to Year 3 as outlined above.
	<b>Honours Bachelor of Social Work (for University Graduates)</b>
	<i>Two-Year Program [Program II]:</i>
	University graduates with a three-year degree in Arts or Social Sciences or 30 courses in Arts or Social Sciences, with a minimum cumulative G.P.A. of 8.0, or an average of at least 8.0 in their last twenty courses taken, including at least one course in statistics or research methods, may be considered for admission to a two-year, four-semester program leading to a Bachelor of Social Work (B.S.W.) degree. Applicants should have volunteer or work experience in human service agencies or community organizations. Applicants must apply to the Office of the Registrar prior to February 1 for September admission.
	<b>Honours Bachelor of Social Work in Social Work and Diaspora Studies (Combined Honours) and Honours Bachelor of Social Work and Women's Studies (Combined Honours)</b>
	<i>[Program IV]</i>
	In this joint honours degree program, students have to meet the entry requirements for both areas. Admission to years 1 and 2 is open to all qualified students. However, admission to the professional program in year 3 requires application prior to February 1st for a September admission. For admission consideration, students will have completed a minimum of 20 courses including required courses from Social Work and Women's Studies and/or Diaspora Studies.
	<b>FIELD PRACTICE COURSES</b>
	All Social Work programs are fully accredited by the Canadian Association of Schools of Social Work (CASSW) and are

organized as sequences which combine studies in the social sciences, the humanities, and other course options along with professional courses in social work. The objective of the programs is to prepare graduates for generalist Social Work practice and for graduate Social Work study.

Field education is an essential requirement of the Social Work program, and successful completion of eight Field Practice courses is required for graduation. This may involve travel and/or weekend hours, and students are responsible for transportation to and from their field placement. All students will be assigned a field placement in a human service organization or community setting.

Theory and Practice of Generalist Social Work courses 47-336, 47-337, 47-436, and 47-437 are taken prior to or concurrent with Field Practice courses.

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## WOMEN'S STUDIES

### Women-Emphasis Courses

Program requirements in Women's Studies make reference to Women-Emphasis courses. These currently include: English 26-128, 26-301; Philosophy 34-236; Communication Studies 40-362; History 43-216, 43-249, 43-250, 43-336, 43-361, 43-369; Political Science 45-211; Psychology 46-240, 46-440, 46-445; Sociology 48-204, 48-205, 48-206, 48-306, 48-329, 48-450, 48-351, 48-352, 48-354, 48-408, 48-409, 48-461, 48-465; Anthropology 49-214, 49-306, 49-350, 49-352; Nursing 63-241, 63-243; and Kinesiology 95-405.

Various areas of study from time to time offer courses dealing specifically with women under specific course titles or general titles such as, "Special Topics", "Directed Readings", or "Seminars". Information regarding such courses will be available from a program advisor in Women's Studies and they may be taken with permission of the program.

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**FACULTY OF ARTS AND SOCIAL SCIENCES**

**SOCIAL JUSTICE STUDIES**

**Program Information**

(Ext. 2326)

*Program Director:* Dr. Tanya Basok

Social Justice Studies is a multi-disciplinary area of studies that enables students to gain insight into the unique and complex challenges facing societies throughout the world. In a world increasingly characterised by conflict, on a global and a national level, there is a need for individuals who can bring clarity of thought and depth of understanding to bear upon our most pressing social, economic and political problems. Students in this program will explore the roots of inequalities and will evaluate different strategies to bring about social change.



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## FACULTY OF ARTS AND SOCIAL SCIENCES

### SOCIAL JUSTICE STUDIES: COURSES

#### **38-101. Introduction to Social Justice**

The course will explore diverse visions and dimensions of social justice, both past and present. It will examine the role of political economy, culture, and identity in addressing injustice in Canada and globally. It will critically assess different strategies for social change. Students will be introduced to the principles governing the production and distribution of benefits and harms, and to such concepts as distributive justice, politics of difference, civil society, empowerment, critical pedagogy, citizenship, and human rights.

#### **38-321. Social Justice Seminar**

An inter-disciplinary exploration of the role of the state, alternative media, arts, literature, critical pedagogy, international and domestic law, social movements, non-governmental agencies, international governmental agencies, and scholars in bringing about social change. (Prerequisites: 38-101 and semester 5 standing.)

#### **38-447. The Social Justice Practicum**

The Practicum in Social Justice offers students in the Social Justice program an opportunity to apply their academic knowledge in a practical setting. Students will be placed in organizations dedicated to the pursuit of social justice in the Windsor area and assigned a major project to be completed in consultation with the course instructor and under the supervision of a field supervisor. Students will be expected to contribute a total of 100 hours to their practicum project and course assignments. In addition, all students will be required to attend a seminar every other week. (The course is open to Social Justice Majors only.) (Prerequisites: 38-321 and semester 7 standing.)

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## FACULTY OF ARTS AND SOCIAL SCIENCES (FASS)

### GENERAL INFORMATION ABOUT HONOURS AND GENERAL PROGRAMS

#### Bachelor of Arts - Four-Year Honours Programs

Four-year Honours programs require the completion of a larger number of courses with greater concentration in a specific subject area than do three-year General programs.

*Total courses:* A student will qualify for the Honours B.A. degree by passing forty courses, with standing as specified in undergraduate regulations.

*Major requirements:* Specific major requirements for the four-year Honours programs vary depending upon the area of study. Individual programs, which may provide for specialization in a single subject or in a combination of related subjects, are outlined under the heading "Programs of Study" in each subject area.

*Other requirements:* Honours and combined Honours programs in each area of study may identify courses in areas of study other than the major that must be completed. These are specified under the heading "Programs of Study" in each subject area.

#### Bachelor of Arts - Three-Year General Programs

Three-year General programs provide a moderate concentration in a specific subject, as well as a broad educational background. Students in these programs are encouraged to extend their studies over a wide range of subjects. Students are also encouraged to take courses which specifically address diversities of human experience, including culture, ethnicity, gender, or sexual orientation.

*Total courses:* A student will qualify for the General B.A. degree by passing thirty courses with standing as specified in undergraduate regulations.

*Major requirements:* At least ten and not more than sixteen courses must be chosen from one subject, which constitutes the major field. The specific requirements for a major are listed separately for each area of study. Normally, at least two courses from the major field should be included among the first ten courses taken.

*Other requirements:* General B.A. degree programs in each area of study may identify courses in areas of study other than the major that must be completed. These are specified under the heading "Programs of Study" in each subject area.

Students are advised to fulfill these requirements by the end of their second year.

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### LETTER OF EQUIVALENCY

A student completing a second major area of study in a three-year General Bachelor of Arts program may not receive an additional B.A., but may request a "Letter of Equivalency" upon completion of the program requirements for the major as well as at least five courses beyond the thirty courses required for the B.A. degree.

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## LANGUAGES, LITERATURES AND CULTURES/LANGUES, LITTÉRATURES ET CULTURES (LLC)

### French Studies Course Categories

*Requirements for degree programs in French Studies make reference to the following groups of courses:*

*Preparatory French:* 29-111, 29-112, 29-113, 29-114.

*French Language Training:* 29-121, 29-122, 29-215, 29-221, 29-222, 29-315, 29-325.

*Translation Courses:* 29-328, 29-329, 29-425.

*Linguistics:* 29-230, 29-231, 29-330, 29-332, 29-431, 29-436.

*French Literature:* 29-141, 29-252, 29-253, 29-255, 29-257, 29-350, 29-353, 29-354, 29-356, 29-357.

*Franco-Canadian Literature:* 29-284, 29-383, 29-385.

*Franco-Canadian Culture:* 29-270.

*Modern French Culture:* 29-260.

*Special Topics:* 29-400 to 29-496.

*Directed Readings:* 29-497, 29-498, 29-499.

*Canadian Studies:* 29-280.

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	<b>FACULTY OF ENGINEERING</b>
	<b>PROGRAM INFORMATION</b>
	The engineering curriculum leading to the B.A.Sc. degree has been designed to offer students an education that is immediately valuable to them on graduation and which, at the same time, provides a foundation to accommodate their further education in industry or research.
	Those interested in pursuing graduate studies should consult the graduate calendar information on the Integrated B.A.Sc./M.A.Sc. program.
	The first year is common in order to give the student an introduction to general engineering principles and to allow investigation of a special field of interest for subsequent years of study.
	The Co-operative Education Program is available in Civil Engineering, Electrical Engineering (Microelectronics Option), Electrical Engineering (Communications Engineering Option), Electrical Engineering (Computer Engineering Option), Environmental Engineering, Industrial Engineering, Industrial Engineering (Automotive Manufacturing Systems Engineering Option), Industrial Engineering (Supply Chain Engineering Option), Mechanical Engineering, Mechanical Engineering (Materials Option), and Mechanical Engineering (Automotive Option).
	While engineers must work within the technologies of the times, they are also responsible for the continual development of these technologies. The flexibility demanded of the engineer must be based upon proficiency in the physical sciences, and a confident ability to apply the sciences to the benefit of humankind. Therefore, our engineering programs are founded upon a substantial content of mathematics, physics, and chemistry; and our engineering subjects are taught with a view to familiarizing the students with contemporary practice, and teaching them those methods of analysis, design, and realization which they will be able to apply to a continually developing discipline.
	The aim of the engineer is to apply the latest science and technology for the betterment of society; engineers must, therefore, realize their duties to society and, as a prerequisite, appreciate how civilizations have developed to their present states.
	The independent responsibility that we wish to see in practicing engineers is impressed upon our students by emphasis on laboratory work, tutorials, projects, and assignments. Further, the student is assisted in individual studies by counselling and professional development seminars.
	These activities encourage a close and profitable student-professor relationship and facilitate the interchange of engineering information and experience to develop the professional maturity and integrity of the student.
	<b>ACADEMIC REGULATIONS</b>
	Students are directed to become familiar and to comply with the general regulations of the University which apply to all students. Additionally, programs within the Faculty of Engineering have particular regulations. Students enrolled in Engineering programs also must comply with these particular requirements.
	Students also are directed to read the " <a href="#">Statement of Responsibility</a> " on the inside front cover.
	<i>COURSE CHANGES</i>
	All course changes subsequent to registration require the written approval of the Associate Dean of the Faculty.
	<i>COURSES NOT PART OF THE ENGINEERING PROGRAM</i>
	A student may register for courses additional to those in the Engineering program only with the permission of the Head of the department in which the student is enrolled and the Associate Dean.
	<i>CALCULATION OF AVERAGES</i>
	1) A student's academic evaluation is based on a cumulative average of grades weighted as follows: The weight of a one-term course is equal to the number of lecture hours per week, plus one-half the number of tutorial or laboratory hours per week.
	2) All courses taken as part of the Engineering Program, are used to calculate a cumulative average. Similarly, all marks obtained in courses in the major area of study are used to calculate major averages. Provided that the course is available in a subsequent registration period, a student may repeat a course only once for purposes of upgrading a major or cumulative average. Both the original mark and the upgraded mark obtained will remain on the student's official record. However, only the mark received in the second attempt is used in calculating the cumulative and major averages.
	<i>SUPPLEMENTAL PRIVILEGES</i>
	The Academic Standing Committee may grant a supplemental evaluation privilege for a failed course provided that the

student:

- (a) has failed only one course in the evaluation period; and
- (b) has a grade in the failed course of F; and
- (c) has a cumulative average of 5.0 or better.

If a supplemental evaluation privilege is granted and the student decides to exercise this privilege, the student must register for the supplemental and pay the appropriate fee. Once a student has registered for a supplemental evaluation and the required evaluation method has been prescribed, the evaluation will occur at the time and place prescribed by the Faculty of Engineering. Failure to write after registering for the supplemental evaluation will result in a grade of F being assigned. Both the resulting grade and the original grade will be shown on the student's transcript and will be included in the determination of the student's cumulative average.

#### *GRADUATION REQUIREMENTS*

In addition to complying with the general university regulations an Engineering student must complete the program within eight years of study from the date of first registration in an Engineering program.

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<a href="#">Programs (Listed Alphabetically)</a>	<b>Co-operative Education Program</b>
<a href="#">Programs (Listed by Faculty)</a>	The Faculty of Engineering Co-operative Education Program offers students the opportunity to combine their classroom experiences with career-related work experiences. The Co-operative Education Program is based upon the principle that the preparation of undergraduate Engineering students can be enhanced by blending career related work experience with a quality curriculum.
<a href="#">Programs (Listed by Department)</a>	Admission to the Co-operative Education Program is competitive. Students who apply and are accepted into the Program must successfully complete three or four paid work experiences (85-198, 85-298, 85-398, or 85-498), normally interspersed throughout the four-year honours program, in addition to specified program requirements. The experience gained while participating in these structured and supervised work placements is viewed as an integral component of the student's education program.
<a href="#">Certificate Programs</a>	<b>APPLICATION PROCEDURE</b>
<a href="#">Minors</a>	Students who are granted admission to the Engineering program are offered the option of participating in the Co-operative Education (Co-op) Program at three different times as follow:
<a href="#">Courses</a>	1) Applicants to the Engineering program who are offered admission to first-year with a mid-term average of eighty percent or higher will be sent an application to participate in the Co-op Program, along with their acceptance package.
<a href="#">Alphabetical by Department</a>	2) All other students who are accepted to first-year of the Engineering program will be given an application to participate in the Co-op Program during their course in Professional Development in September.
<a href="#">Instructors</a>	Academic criteria for participation will vary depending upon the number of Co-op applicants and the number of co-op jobs expected to be available. Decisions regarding participation in the Co-op Program will be finalized by the Centre for Career Education in the Winter term of the students' first year of study. Actual registration in the Co-op Program and fee assessment will not occur until students obtain their first work assignment in the Summer term after their first Fall and Winter terms of study.
<a href="#">Alphabetical by Department</a>	3) During the summer before the second year of the Engineering program, all students who have completed their first year and have achieved the Engineering Co-op academic requirement of a cumulative average of 5.0 or better and no more than one failure may be considered for admission to the Co-op program, but a higher grade point average will usually be required.
<a href="#">Admission Information</a>	Second-year applicants are evaluated on the basis of their first-year academic achievement, paid and volunteer work experience, application and an interview.
<a href="#">Application Information</a>	Decisions regarding acceptance into the Co-op Program will be finalized by the Centre for Career Education in September. Registration in the Co-op Program and fee assessment will also occur at this time.
<a href="#">Admission Requirements</a>	<b>PLACEMENT</b>
<a href="#">English Language Proficiency</a>	The placement process is competitive. Co-op students will register and apply for work placement positions advertised by the Centre for Career Education using an Internet-Academic software program. Student application documents are forwarded to employers who select the students they wish to interview.
<a href="#">Registration</a>	After interviews take place, both the student and the employer will be involved in the ranking and matching process coordinated by the Co-op Office.
<a href="#">Fee Regulations and Schedule</a>	The Faculty of Engineering or Centre for Career Education do not guarantee placement, but every reasonable effort will be made to ensure that appropriate employment is made available.
<a href="#">Academic Regulations</a>	<b>SEQUENCE OF WORK AND STUDY TERMS</b>
<a href="#">Undergraduate Regulations</a>	<b>FIRST YEAR</b>
<a href="#">Examination and Grading Procedures</a>	<i>Fall Term: Study term</i>
<a href="#">Honour Roll Criteria</a>	<i>Winter Term: Study term</i>
<a href="#">Graduation</a>	<i>Summer Term: Work term</i>
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*Summer Term: Study term*

**THIRD YEAR\* (for Environmental Engineering)**

*Fall Term: Study term*

*Winter Term: Study term*

*Summer Term: Work term*

**FOURTH YEAR**

*Fall Term: Work term*

*Winter Term: Study term*

*Summer Term: Study term*

**ACADEMIC STANDING**

After each study term, Co-op students' academic records will be reviewed to ensure that they meet the academic requirements necessary to remain in the Co-operative Program. The Co-op academic requirement is a cumulative average of 5.0 or better and no more than one outstanding failure.

**WORK TERM EVALUATION**

A student's performance in a Work Term will be evaluated as either "Pass" or "Fail". To obtain a "pass" evaluation, a student must successfully complete all the requirements of the Co-operative Program as described in the rules and regulations handout provided to all co-op students and available from the Centre for Career Education.

**CO-OPERATIVE PROGRAM GRADUATION REQUIREMENTS**

In addition to the requirements for graduation from the regular B.A.Sc. program, students in the Co-operative Program must satisfactorily complete three work terms, including a final, Fall work term, unless a student is involved in an internship which is approved for different specific conditions.

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## KINESIOLOGY

### Majors in Movement Science, Sport Management, and Sports Studies

#### [To be implemented Fall 2008]

#### Bachelor of Human Kinetics (Honours Kinesiology) Movement Science Major

Students selecting this major will be interested in entering the general field of science as it relates to human activity as teachers, exercise consultants, sport therapists, athletic trainers, ergonomic specialists in the biomechanics of movement, and human performance specialists in motor development and memory. This program is recognized by the Ontario Kinesiology Association. Those interested in graduate studies in Movement Science should select this major. Graduates are also qualified to enter a Faculty of Education.

*Total courses:* forty.

#### *Major requirements:*

*Human Kinetics Core:* fourteen courses including 95-265, 95-220, 95-211, 95-280, 95-XXX Health and Wellness (new course to be developed), 95-250, 95-269, 95-XXX Introduction to Exercise Physiology (new course to be developed), 95-270; plus five of 95-210, 95-230, 95-240, 95-260, 95-285, 95-XXX Introduction to Ergonomics (new course to be developed), 95-XXX Introduction to Leisure Studies (new course to be developed, or 95-350).

*Movement Science Courses:* twelve courses including ten of 95-301, 95-302, 95-310, 95-360, 95-362, 95-400, 95-410, 95-460, 95-463, 95-465, 95-471, 95-475, 95-480, 95-490, or 95-498; plus two of 95-XXX Lab course in Physiology (new laboratory course to be developed), 95-XXX Lab course in Biomechanics and Ergonomics (new laboratory course to be developed), and 95-XXX Lab course in Motor Learning and Psychology (new laboratory course to be developed).

#### *Other requirements:*

- (a) six courses from Engineering, Nursing, Psychology and/or Science.
- (b) six courses from any area of study, excluding Kinesiology.
- (c) two courses from any area of study, including Kinesiology.

\*\*\*\*Note: Students must successfully complete Introduction to Ergonomics, Physiology of Fitness, and Human Performance in second year to complete this major.

#### Program Sequencing

##### Year 1

##### Fall Semester

95-265 Functional Anatomy  
95-220 Ethical Issues in Kinesiology (name change from current)  
95-211 Principles of Mental Skills Training  
95-280 Fundamental Mechanics of Human Motion  
Option

##### Winter Semester

95-XXX Health and Wellness (new course)  
95-250 Principles of Sport Management  
95-269 Measurement and Evaluation  
95-XXX Introduction to Exercise Physiology (new course)  
Option

##### Year 2

95-270 Research Design

Choose 5 of the following:

95-210 Human Performance  
95-230 Sociology of Sport and Physical Activities  
95-240 Historical Perspectives on Physical Activity and Sport in Western Civilization  
95-260 Physiology of Fitness  
95-285 Human Growth and Development  
95-XXX Introduction to Ergonomics (new course)  
95-XXX Introduction to Leisure Studies  
95-350 Organizational Behaviour (current major level course will require a new number)

Plus, 4 Option courses

### Years 3 and 4

Note: Students must successfully complete Introduction to Ergonomics, Physiology of Fitness, and Human Performance in second year to complete this major

Take 10 of the following:

95-301 Use and Abuse of Drugs  
95-302 Exercise and Fitness Psychology  
95-310 Motor Control  
95-360 Physiology of Exercise  
95-362 Human Factors and Work Performance  
95-400 Human Movement and Aging  
95-410 Physical Activity for Special Populations  
95-460 Cardiovascular Physiology  
95-463 Applied Neurophysiology  
95-465 Ergonomics and Injury Prevention  
95-471 Physiological Basis of Sports Therapy  
95-475 Individual Studies  
95-480 Advanced Biomechanics  
95-490 Special Topics  
95-498 Internship

Take 2 of the following:

95-XXX Lab course in Physiology (new laboratory course)  
95-XXX Lab course in Biomechanics and Ergonomics (new laboratory course)  
95-XXX Lab course in Motor Learning and Psychology (new laboratory course)

Plus 8 Option courses

### Bachelor of Human Kinetics (Honours Kinesiology) Sport Management Major

Students completing this major will be interested in examining leisure from a social science perspective and/or preparing for employment opportunities related to the administration of leisure, sport and physical activity programs. Graduates typically assume positions with government agencies, municipal recreation, units, public and private recreation units, public and private recreation centres, and amateur or professional sports organizations. Graduates also are prepared to enter graduate school or a faculty of education.

*Total courses:* forty.

*Human Kinetics Core:* fourteen courses including 95-265, 95-220, 95-211, 95-280, 95-XXX Health and Wellness (new course to be developed), 95-250, 95-269, 95-XXX Introduction to Exercise Physiology (new course to be developed), 95-270; plus five of 95-210, 95-230, 95-240, 95-260, 95-285, 95-XXX Introduction to Ergonomics (new course to be developed), 95-XXX Introduction to Leisure Studies (new course to be developed, or 95-350).

*Sport Management Courses:* twelve of 95-340, 95-345, 95-351, 95-355, 95-405, 95-450, 95-451, 95-452, 95-454, 95-473, 95-475, 95-XXX Business Ethics (new course to be developed), 95-XXX Sport Finance (new course to be developed), 95-XXX Global Issues in Sport Management (new course to be developed), 95-XXX Sport Communication (new course to be developed), 95-490, and 95-498.

*Other requirements:*

- (a) six courses from Arts and Social Sciences and/or Business.
- (b) six courses from any area of study, excluding Kinesiology.
- (c) two courses from any area of study, including Kinesiology.

\*\*\*\*Note: Students must successfully complete Historical Perspectives on Physical Activity and Sport in Western Civilization, Sociology of Sport and Physical Activities, and Organizational Behaviour in second year to complete this major.

### Program Sequencing

#### Year 1

##### Fall Semester

95-265 Functional Anatomy  
95-220 Ethical Issues in Kinesiology (name change from current)  
95-211 Principles of Mental Skills Training  
95-280 Fundamental Mechanics of Human Motion  
Option

##### Winter Semester

95-XXX Health and Wellness (new course)  
95-250 Principles of Sport Management

95-269 Measurement and Evaluation  
95-XXX Introduction to Exercise Physiology (new course)  
Option

## Year 2

95-270 Research Design

Choose 5 of the following:

95-210 Human Performance  
95-230 Sociology of Sport and Physical Activities  
95-240 Historical Perspectives on Physical Activity and Sport in Western Civilization  
95-260 Physiology of Fitness  
95-285 Human Growth and Development  
95-XXX Introduction to Ergonomics (new course)  
95-XXX Introduction to Leisure Studies  
95-350 Organizational Behaviour (current major level course will require a new number)

Plus, 4 Option courses

## Years 3 and 4

Note: Students must successfully complete Historical Perspectives on Physical Activity and Sport in Western Civilization, Sociology of Sport and Physical Activities, and Organizational Behaviour in second year to complete this major.

Take 12 of the following:

95-340 History of the Modern Olympic Movement  
95-345 Sport Marketing  
95-351 Strategic Planning of Sports Events  
95-355 Socio-economic Aspects of Sport and Leisure  
95-405 Gender Issues in Sport  
95-450 Human Resources in Sport Management  
95-451 Sport and the Law  
95-452 Sport and Government  
95-454 Cooperation and Conflict in Sport  
95-473 Social Construction of Leisure  
95-475 Individual Studies  
95-XXX Business Ethics (new course)  
95-XXX Sport Finance (new course)  
95-XXX Global Issues in Sport Management (new course)  
95-XXX Sport Communication (new course)  
95-490 Special Topics  
95-498 Internship

Plus, 8 Option courses

## Bachelor of Human Kinetics (Honours Kinesiology) Sport Studies Major

*Total courses:* forty.

*Human Kinetics Core:* fourteen courses including 95-265, 95-220, 95-211, 95-280, 95-XXX Health and Wellness (new course to be developed), 95-250, 95-269, 95-XXX Introduction to Exercise Physiology (new course to be developed), 95-270; plus five of 95-210, 95-230, 95-240, 95-260, 95-285, 95-XXX Introduction to Ergonomics (new course to be developed), 95-XXX Introduction to Leisure Studies (new course to be developed, or 95-350).

*Sport Studies Courses:* fourteen courses including ten of 95-311, 95-320, 95-333, 95-351, 95-370, 95-374, 95-380, 95-405, 95-410, 95-440, 95-453, 95-471, 95-475, 95-476, 95-477, 95-490, and 95-498; plus four practice, theory, and analysis courses.

*Other requirements:*

(a) twelve courses from any area of study, excluding Kinesiology.

\*\*\*\*Note: Students must successfully complete Growth and Development, Introduction to Leisure Studies, and Historical Perspectives on Physical Activity and Sport in Western Civilization in their second year in order to complete this major.

## Program Sequencing

### Year 1

Fall Semester

95-265 Functional Anatomy

95-220 Ethical Issues in Kinesiology (name change from current)  
95-211 Principles of Mental Skills Training  
95-280 Fundamental Mechanics of Human Motion  
Option

Winter Semester

95-XXX Health and Wellness (new course)  
95-250 Principles of Sport Management  
95-269 Measurement and Evaluation  
95-XXX Introduction to Exercise Physiology (new course)  
Option

**Year 2**

95-270 Research Design

Choose 5 of the following:

95-210 Human Performance  
95-230 Sociology of Sport and Physical Activities  
95-240 Historical Perspectives on Physical Activity and Sport in Western Civilization  
95-260 Physiology of Fitness  
95-285 Human Growth and Development  
95-XXX Introduction to Ergonomics (new course)  
95-XXX Introduction to Leisure Studies  
95-350 Organizational Behaviour (current major level course will require a new number)

Plus, 4 Option courses

**Years 3 and 4**

Note: Students must successfully complete Growth and Development, Introduction to Leisure Studies, and Historical Perspectives on Physical Activity and Sport in Western Civilization in their second year in order to complete this major.

Take 10 of the following:

95-311 Psychology of Leisure  
95-320 Philosophy of Sport and Physical Activity  
95-333 Applied Sport Psychology  
95-351 Strategic Planning of Sports Events  
95-370 Scientific Basis of Conditioning  
95-374 Movement for Young Children  
95-380 Biomechanics of Sport (revised from current Biomechanics of Human Locomotion)  
95-405 Gender Issues in Sport  
95-410 Physical Activity for Special Populations  
95-440 History of Sport in Canada  
95-453 Perceptual Motor Development  
95-471 Physiological Basis of Sports Therapy  
95-475 Individual Studies  
95-476 Principles of Coaching  
95-477 Outdoor Recreation  
95-490 Special Topics  
95-498 Internship

Plus 4 Practice, Theory, and Analysis courses

Plus 6 Option courses

**KINESIOLOGY: "CORE" COURSES, AREAS OF STUDY, AND FIRST AND SECOND YEAR COURSE SEQUENCE**

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## FACULTY OF LAW

### SPECIAL LECTURES

#### The Access to Justice Lecture Series

Each year a leading scholar is invited to deliver an original lecture on the theme of "Access to Justice". The lecturer then reworks his or her paper for the purpose of publication in The Windsor Yearbook of Access to Justice.

#### The George M. Duck Lecture Series

A trust fund was established by a donation in memory of George M. Duck in order to institute an annual series of public lectures on the theme "Law in a Changing Society". Annually an eminent scholar will be invited to present the Lecture.

#### Bernard Cohn Memorial Lecture in Criminal Law

A trust has been established by the friends and family of Bernard Cohn, Q.C. to institute an annual series of public lectures on the theme of Criminal Law and Procedure. Each year an eminent judge, practitioner or scholar will be invited to present the lectures.

#### Windsor/Wayne Law Forum

The Faculties of Law from the University of Windsor and Wayne State University in Michigan hold an annual lecture series known as the Windsor/Wayne Law Forum. Two professors, one from each institution, examine a given topic from a Canadian and an American perspective. The public is invited to attend these forums. Some of the topics in the series have been "The Role of the Judiciary in a Democratic Society," "Unions, Employees and the Concept of Fair Representation", and "An Introduction to and a Few Perspectives on the Canadian Charter of Rights and Freedoms".

#### Paul Martin Professorship in International Law

The Paul Martin Endowed Professorship was named for the Hon. Paul Martin, who represented the Windsor area for over thirty-three years, earning distinction in international affairs. The professorship was funded by corporate, private, and government contributions to a campaign launched at the University of Windsor in 1982. The inaugural professor was Secretary-General of the Commonwealth, Sir Shridath Ramphal, followed by Professor Edward McWhinney, then of Simon Fraser University. The 1990 holder was The Hon. Gough Whitlam, former Prime Minister of Australia. In July, 1993, the Hon. Howard Pawley, P.C., Q.C., LL.D., former Premier of Manitoba, began a five-year term as holder of the Chair. Dr. Alice Erh-Soon Tay, Challis Professor of Jurisprudence at the University of Sydney, Australia, and President, Human Rights and Equal Opportunity Commission, was the Paul Martin Professor in 1999.

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	<b>Bachelor of Science General Programs</b>
	Programs leading to a General BSc require the completion of thirty courses. The following programs are offered: the Bachelor of Science (General Science) and the Bachelor of Science (Science, Technology and Society). A concurrent Bachelor of Science (General Science) Degree/Medical Laboratory Science Diploma is also offered.
	<b>Bachelor of Science Honours Programs</b>
	Programs leading to an Honours B.Sc. require the completion of forty courses. These programs require a greater concentration than the General Science and STS degree programs.
	Specific requirements differ depending upon the Honours Major(s). Course selection may provide for further specialization in a single subject or in a combination of related subjects. Students who achieve a major G.P.A. of 8.0 or higher will receive the Honours degree.
	The following programs are offered:
	<i>Biological Sciences</i> - Honours Biological Sciences, Honours Biological Sciences-Co-operative Education Program in Environmental Biology, Honours Biology and Psychology, Honours Biology and Computer Science, Honours Biology and Biotechnology.
	<i>Chemistry and Biochemistry</i> - Honours Biochemistry, Honours Chemistry, Honours Chemistry and Physics, Honours Biochemistry and Biotechnology.
	<i>Computer Science</i> - Honours Computer Information Systems, Co-operative Education program in Honours Computer Information Systems, Honours Computer Science with option in Software Engineering, Co-operative Education program in Honours Computer Science with option in Software Engineering.
	<i>Earth Sciences</i> - Honours Geology, Honours Environmental Geoscience, plus Co-operative Education Programs in Honours Geology and Honours Environmental Geoscience, Honours Geoinformatics, Honours Environmental Resource Management, Honours Physical Geography. Students wishing to combine Chemistry or Physics with Geology must enroll in an Honours Geology program.
	<i>Environmental Science</i> - the major in environmental Science includes Geology, Geography and Biology components.
	<i>Physics</i> - Honours Physics and High Technology; plus combined Honours programs in Physics and Computer Science and in Chemistry and Physics.
	<b>B.Sc. Honours with Thesis Programs</b>
	Programs leading to an Honours B.Sc. with Thesis require the completion of forty courses, of which two course credits would result in a thesis in the final year of study.
	Honours standing (major G.P.A. of 8.0 or higher) is required for graduation in all B.Sc. with Thesis programs.
	In any program some degree of specialization is possible; course selection may provide for further specialization in a single subject or in a combination of related subjects.
	<b>Bachelor of Computer Science Programs</b>
	<i>Computer Science</i> - Both general and honours programs are offered, leading to the degree of Bachelor of Computer Science (B.C.S.). Each permits the student to augment a specialized study of computers with an extensive study of one of a number of related fields, or with a broad spectrum of other courses. A Co-operative Education program is offered in Honours Computer Science.
	Also offered are B.Sc. programs leading to degrees in Computer Information Systems Specialization, or with Software Engineering Specialization.
	<b>Bachelor of Arts in Economics</b>
	<i>Economics</i> - Both general and honours programs are offered leading to the Bachelor of Arts degree in Economics. Combined degrees are also available.
	<b>Bachelor of Mathematics and Bachelor of Operations Research</b>
	<i>Mathematics and Statistics</i> - Both general and honours programs lead to the Bachelor of Mathematics (B.Math.) degree.

Mathematics also may be combined with Computer Science or another major leading to the Honours B.Math. degree. An honours Co-operative Education program leads to the Bachelor of Operations Research (B.O.R.) degree.

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## FACULTY OF SCIENCE

### CO-OPERATIVE EDUCATION PROGRAMS

The Co-operative Education Program offers students the opportunity to combine their classroom experiences with related work experiences. Students seeking admission to the co-operative Education Program must be admitted to the Faculty of Science and enrolled as a full-time student. The Faculty of Science offers the following Co-op programs:

#### *Biological Sciences:*

Bachelor of Science (Honours Biological Sciences - Co-operative Program in Environmental Biology)

#### *Computer Science:*

Bachelor of Computer Science (Honours) Co-op

Bachelor of Science (Honours Computer Information Systems) Co-op

Bachelor of Science (Honours Computer Science with Software Engineering Specialization) Co-op

#### *Earth Science:*

Bachelor of Science (Honours Geology) Co-op

Bachelor of Science (Honours Geology with Thesis) Co-op

Bachelor of Science (Honours Environmental Geoscience) Co-op

Bachelor of Science (Honours Environmental Geoscience with Thesis) Co-op

#### *Physics:*

Bachelor of Science (Physics and High Technology) Co-op

### ADMISSION AND APPLICATION

Students can apply for admission to the co-op program in high school and in September during the second year of study. Students applying for Co-op during their second year of study will be required to submit an application form and a resume. Second year admission will be based on academic achievement, previous volunteer and paid work experience, and in some cases, an interview.

*NOTE:* Each Co-op program within the Faculty of Science has particular regulations and guidelines. Students are directed to the program sections of the Faculty.

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## FACULTY OF SCIENCE

### PRE-MEDICAL AND OTHER PRE-PROFESSIONAL PROGRAMS

In addition to the degree programs, the Faculty of Science offers combinations of course selections for students intending to apply to professional schools such as medicine, dentistry, optometry, pharmacy, physiotherapy, alternative medicine, chiropractic, radiation therapy, etc.

All students intending to apply for admission to a professional school are advised to study carefully the requirements of the particular school(s) to which admission is sought because there is some variation, both with respect to choice of subjects and number of years of study required for entrance. Institutions may also change their requirements from time to time. Students may obtain academic advice from the Pre-Health Profession Advisor in the Office of the Dean of Science.

#### *Pre-Teaching Program*

*Certificate of Qualification:* Students who contemplate registering in the Faculty of Education at the University of Windsor, or a comparable institution, should be aware that Certificates of Qualification are awarded in the Primary-Junior (grades K-6 inclusive), Junior-Intermediate (grades 4-10 inclusive), and Intermediate-Senior (grades 7 to the end of secondary school) areas of concentration by the Ontario College of Teachers.

Those intending to teach at the Junior-Intermediate level must successfully complete a minimum of six courses in a subject taught in secondary schools. The B.Sc. in General Science or Science, Technology, and Society are thirty-credit programs that can provide competence in two teachable subjects. However, an honours degree in a disciplinary major allows the graduate a wider range of career opportunities. A Concurrent B.Sc.(General Science)/B.Ed. Program is also available as well as a concurrent B.Sc./B.Ed./E.C.E. program.

Honours Specialist Qualification: By the proper choice of subjects, students completing certain honours programs with a B average may qualify for admission to courses leading to the Honours Specialist Qualifications at the Faculty of Education at this University, or other Ontario faculties or colleges of education. In order to acquire such qualification, a minimum of two years of successful teaching experience is necessary following the granting of the Ontario Certificate of Qualification. Advising is available at the Faculty of Education.

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## FACULTY OF SCIENCE

## LETTER OF EQUIVALENCY

A student completing a second major area of study in a three-year General Bachelor of Science program may not receive an additional B.Sc., but may request a "Letter of Equivalency" upon completion of the program requirements for the major as well as at least five courses beyond the thirty courses required for the B.Sc. degree.

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## CHEMISTRY AND BIOCHEMISTRY

### Combined Honours Programs - Biochemistry

*Programs combining Biochemistry with another major will consist of the following:*

*Total courses: forty.*

*Major requirements-Chemistry and Biochemistry: fifteen courses, consisting of 59-140, 59-141, 59-230, 59-235, 59-240, 59-241, 59-250, 59-251, 59-261, 59-320, 59-321, 59-362, 59-363, 59-365, and one additional course at the 300 or 400 level.*

*Major requirements-Other Subject: as prescribed by that area of study.*

*Other requirements:*

(a) 55-140, 55-141, 55-211, 55-213, 62-140, 62-141, 64-140, and 64-141;

(b) additional courses, if necessary, from any area of study to a total of forty courses.

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## FAMILY AND SOCIAL RELATIONS

### General Information

The interdisciplinary degree programs in Family and Social Relations combine courses from a variety of academic perspectives whose focus is upon the family as a fundamental unit in society. The program is designed to provide a comprehensive understanding of the family including its various possible structures, the relationships within, and the nature of its interaction with other social institutions.

A background in Family and Social Relations has relevance to careers in law, teaching, social work, government service, family mediation, family court support services, and applied research in the areas of sexuality, child development, family violence, separation, divorce, and aging.

Students selecting a general degree in Family and Social Relations can, with appropriate course selection, be prepared for application to four-year Honours and then graduate programs in psychology, sociology, and related disciplines.

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## SOCIOLOGY AND ANTHROPOLOGY

### Teaching Family and Social Relations

Students intending to teach Family and Social Relations at the Intermediate -Senior level in the school system are advised to take the following courses as a part of the Family and Social Relations program: 41-110, 46-223, 46-224, 46-240, 46-327, 48-204, 48-205, 48-206, 48-226 (or 49-226), 48-306 (or 49-306), 48-329, 48-450, 49-214.

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## Students Intending to Apply to the Bachelor of Social Work

Students intending to apply to the Bachelor of Social Work program at Year 3 must include the following courses in their programs: 47-117, 47-118, 47-204, and 47-205.