

Faculty of Arts and Science

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Section 31

31.001

FACULTY OF ARTS AND SCIENCE

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Location

Loyola Campus
Administration Building, Room: AD 229
514-848-2424, ext. 2080

Sir George Williams Campus
Hall Building, Room: H 541-4
514-848-2424, ext. 2080

Structure

The Faculty of Arts and Science, comprised of the former Loyola Faculty of Arts and Science, the former Sir George Williams Faculty of Arts, and the former Sir George Williams Faculty of Science, was brought into being on July 1, 1977. For administrative purposes, the Faculty consists of departments, programs, colleges, institutes, and schools. The departments and other units of which the Faculty is comprised are as follows:

Departments

Applied Human Sciences
Biology
Chemistry and Biochemistry
Classics, Modern Languages and Linguistics
Communication Studies
Economics
Education
English
Études françaises
Exercise Science
Geography, Planning and Environment
History
Journalism
Mathematics and Statistics
Philosophy
Physics
Political Science
Psychology
Religion
Sociology and Anthropology
Theological Studies

Colleges

Liberal Arts College
Loyola College for Diversity and Sustainability
School of Canadian Irish Studies
School of Community and Public Affairs
Science College
Simone de Beauvoir Institute

Programs

Certificate in Arts and Science
Individually Structured Program

Objectives

The Faculty of Arts and Science is committed to responsible and innovative leadership in developing and disseminating knowledge and values, and encouraging constructive social criticism. The Faculty achieves these objectives through inclusive and accessible academic programs which stress a broad-based, interdisciplinary approach to learning. We are dedicated to superior teaching and research supported by excellence in scholarship and creative activity, and a tradition of service to the community. The Faculty of Arts and Science serves many interdependent academic communities in an urban environment where students and faculty can pursue their shared commitment to lifelong learning.

Studies in Arts and Science

The Faculty of Arts and Science encourages all students to explore beyond the boundaries of their programs of concentration. This is facilitated by the program structure and graduation requirements of the undergraduate degrees (see §31.002 and 31.003). Undergraduate degrees normally require 90 credits of course work, consisting of at least one program of concentration (major at 36 to 48 credits; specialization or honours at 60 or more credits). The balance of the degree requirements may be made up of one or more minors (24 to 30 credits), one or more elective groups (15 or 18 credits), or by courses selected from a broad spectrum of disciplines. Students are required to complete at least 24 credits outside the main area of concentration. Credits earned to meet the General Education requirement (see §31.004) may also be counted toward this 24-credit requirement.

Most major programs are relatively short, allowing maximal development of interests outside the area of concentration. Two areas of concentration can be combined in a double major. Even longer programs (specialization and honours) allow students to diversify their studies for up to one third of their degree requirements.

Program structures thus permit students to obtain a judicious balance between concentrated study and exploration of broader interests. Department and Faculty advisors are available to help students develop a plan of study which accommodates their personal interests and satisfies degree requirements.

Programs of concentration and related minors are published in the Calendar entries for each of the disciplines in the Faculty (§31.010 onward). To facilitate innovative exploration outside these standard disciplines, the Faculty offers many alternatives. First, the University has established six Colleges (§31.500 onward) which foster various philosophies and methods of education on an intimate scale. Second, it has created majors which cross disciplinary boundaries (Southern Asia Studies and Women's Studies). In addition, selected students may create their own Individually Structured Program (§31.170) under the direction of the Faculty advisor. Finally, the Faculty offers cross-disciplinary minors (for example, Canadian Irish Studies, Southern Asia Studies, and Women's Studies) and a number of Interdisciplinary courses (§31.170) which may be chosen as electives in any program.

A good education — balancing the development of expert knowledge in a narrow domain with broader academic experience — can be obtained in the Faculty of Arts and Science. The programs outlined are best considered as models of what can be planned by imaginative students and their academic advisors.

31.002 PROGRAMS AND ADMISSION REQUIREMENTS

General admission requirements are listed in §13.

Specific requirements for admission to the various programs leading to the BA, BEd, and BSc degrees, and to certificates, are set out in the first column of the following listings. They refer to the table of Cegep pre-Arts and pre-Science profiles defined below. Students lacking one or more of these prerequisites may be admitted, but must include the designated prerequisites among the first 30 credits of their undergraduate program. In certain cases, the prerequisites must be taken in addition to the undergraduate program.

Profile	Requirements
0.00	Diploma of Collegial Studies (DEC – Diplôme d'études collégiales).
0.72	DEC or equivalent and appropriate teaching licence.
0.80	Full-time teaching position with an educational institution recognized by the Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST) and a Provisional Teaching Authorization from the MESRST.
3.14	Biology 301, 401, 911, 921 or 101-NYA.

- 4.03 Social Science DEC plus Mathematics 300 and Biology 921 (Social Science DEC includes Introductory Psychology).
- 4.10 DEC in Humanities or equivalent. Any other DEC including courses in Psychology and Quantitative Methods or its equivalent.
- 5.00 Natural Science DEC.
- 6.00 DEC intégré en sciences, lettres et arts.
- 10.1 Mathematics 337 or 103 and 307 or 201-NYA; Biology 301, 401, 911, 921 or 101-NYA; Psychology 101 or 102.
- 10.5 Two Cegep courses or equivalent in the language to be studied. If these courses have not been available in the Cegep attended, the student may be required to complete them at the university level.
- 10.9 Mathematics 103 or 201-NYA and 203 or 201-NYB; Physics 101 or 203-NYA and 201 or 203-NYB and 301 or 203-NYC; Chemistry 101 or 202-NYA and 201 or 202-NYB; Biology 301 or 101-NYA.
- 10.10 Mathematics 103 or 201-NYA and 203 or 201-NYB and 105 or 201-NYC; Physics 101 or 203-NYA and 201 or 203-NYB and 301 or 203-NYC; Chemistry 101 or 202-NYA and 201 or 202-NYB; Biology 301 or 101-NYA.
- 10.12 Mathematics 103 or 201-NYA and 203 or 201-NYB and 105 or 201-NYC.
- 10.13 There are no particular requirements for graduates of an anglophone Cegep other than the DEC. Graduates of a francophone Cegep must hold a DEC with an advanced course in English or have an equivalent background in English.
- A: Interview
- E: Essay
- G: Letter of intent
- K: Submission of a portfolio of representative work
- N: English proficiency test/Placement test
- P: Competency in written and oral French, to be determined by a proficiency test, the results of which may lead to the rejection of the candidate or the requirement of additional university courses.
- Q: Competency in written and oral English, to be determined by a proficiency test, the results of which may lead to the rejection of the candidate or the requirement of additional university courses.
- +: Two letters of reference; Early Childhood and Elementary Education and Teaching of English as a Second Language require three letters of reference.
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Program titles refer to honours, specialization and major components where these exist. Full information about the programs offered under each title (including combinations with programs in other disciplines) is to be found in the section of the Calendar specified in the third column below.

BA, BSc, BEd

Profile	Program	Calendar Section
0.00	Adult Education	31.090.2
0.00	Anthropology	31.310
0.00	Anthropology and Sociology	31.310
10.9/5.00/6.00	Biochemistry	31.050
10.9/5.00/6.00	Biology	31.030
10.9/5.00/6.00	Cell and Molecular Biology	31.030
0.00	Canadian Irish Studies	31.530
0.00	Certificate in Arts and Science	31.170
10.9/5.00/6.00	Chemistry	31.050
0.00	Child Studies	31.090
0.00	Classics	31.060
0.00A,E,G,K,+	Communication Studies	31.070
0.00A,E,G,+	Communication and Cultural Studies	31.070
0.00A,P,Q	Community, Public Affairs and Policy Studies	31.540
0.00G	Community Service	31.010

Profile	Program	Calendar Section
0.00G,K	Creative Writing (see also English and Creative Writing)	31.100
0.00A+	Early Childhood and Elementary Education	31.090
10.9/5.00/6.00	Ecology	31.030
0.00	Economics	31.080
0.00	Education: Adult Education	31.090.2
	Education (see Child Studies; Early Childhood and Elementary Education; Teaching of English as a Second Language)	
0.00	English (see also Creative Writing; Professional Writing)	31.100
0.00G,K	English and Creative Writing	31.100
0.00	English and History	31.100, 31.160
0.00	English Literature	31.100
10.5	Études françaises (Spécialisation)	31.110
	Études françaises	31.110
10.5	Option: Langue ou littératures de langue française	
10.5	Option: Rédaction professionnelle	
10.5	Option: Traduction	
10.5G	Spécialisation en traduction	
0.00	Langue française (Mineure et certificat)	
10.5	Littératures de langue française (Mineure)	
10.9/5.00/6.00	Exercise Science	31.120
10.9/5.00/6.00	Exercise Science (Clinical Exercise Physiology, Athletic Therapy)	31.120
0.00G	Family Life Education	31.010
0.00	First Peoples Studies	31.540
0.00	French Studies — see Études françaises	
0.00	Geography, Planning and Environment (BA), Human Environment	31.130
10.9/5.00/6.00	Geography, Planning and Environment (BSc), Environmental Geography	31.130
10.9/5.00/6.00	Geography, Planning and Environment (BSc), Environmental Science	31.130
0.00	German	31.060
0.00	History	31.160
0.00	History and English	31.160, 31.100
0.00G	Human Relations	31.010
Appropriate	Interdisciplinary Studies — Individually Structured Program	31.170
0.00	Interdisciplinary Studies in Sexuality	31.170
0.00	Italian	31.060
0.00G,Q	Journalism	31.180
0.00,G ^{Honours}	Judaic Studies	31.270
0.00G	Leisure Sciences	31.010
0.00	Linguistics	31.060
10.12/6.00	Mathematics and Statistics (BA)	31.200
10.10/5.00/6.00	Mathematics and Statistics (BSc)	31.200
10.12/6.00	Mathematics (Actuarial — BA)	31.200
10.10/5.00/6.00	Mathematics (Actuarial — BSc)	31.200
10.12/6.00G	Mathematics (Actuarial Mathematics/Finance — BA)	31.200
10.10/5.00/6.00G	Mathematics (Actuarial Mathematics/Finance — BSc)	31.200
10.12/6.00	Mathematics (Computational Finance — BA)	31.200
10.10/5.00/6.00	Mathematics (Computational Finance — BSc)	31.200
10.12/6.00	Mathematics (Pure and Applied — BA)	31.200
10.10/5.00/6.00	Mathematics (Pure and Applied — BSc)	31.200
0.00	Pastoral Ministry (Cert. only)	31.330
0.00	Philosophy	31.220
10.9/5.00/6.00	Physics	31.230
0.00	Political Science	31.240
0.00N	Professional Writing	31.100
10.1/4.03/6.00/ 3.14 + 4.10	Psychology (BA)	31.250
5.00/6.00/10.9	Psychology (BSc)	31.250
5.00/6.00/10.9	Psychology (Behavioural Neuroscience Option)	31.250
0.00,G ^{Honours}	Religion (see also Judaic Studies)	31.270
0.00	Sociology	31.310
0.00	Southern Asia Studies	31.270

Profile	Program	Calendar Section
0.00	Spanish	31.060
10.12/6.00	Statistics (BA)	31.200
10.10/5.00/6.00	Statistics (BSc)	31.200
10.13 A,G,P,Q,+ 0.72 G,Q,+ 0.00 3.14G 0.00 0.00 0.00A,G ^{Honours} 0.00	Teaching of English as a Second Language Teaching of English as a Second Language (Certificate) Theological Studies (see also Pastoral Ministry) Therapeutic Recreation Urban Planning Urban Studies Western Society and Culture Women's Studies	31.090.1 31.090.1 31.330 31.010 31.130.1 31.130.1 31.520 31.560

Mature Student Entry

Concordia University has a tradition of concern for the education of Mature students; it has always sought to assist students of 21 and over to undertake undergraduate studies. Mature students are supported in their return to formal studies by committed staff members in the Student Transition Centre of the School of Extended Learning. The staff of the Student Transition Centre provide guidance and encouragement to all Mature Entry students as they begin the challenging journey of plunging into courses and programs in a very large urban university after what could have been years away from classes and studying. Mature students who are seeking first-year academic counselling and advice on returning to university studies are encouraged to visit the Student Transition Centre's website (stc.concordia.ca) for further information.

Extended Credit Program

Students admitted to BA and BEd Extended Credit Programs are required to complete an additional 30 credits for the degree and must include the following 30 credits:

- 30 elective credits, of which a maximum of 12 may be outside the Faculty of Arts and Science. Certain departments in the Faculty have specific requirements. Students intending to follow programs of concentration within these departments must include the specified components as part of their program.

BA Mathematics: 9 credits in Mathematics — 203³, 204³, 205^{3*}

*Students not having MATH 202³, or the equivalent, must take it in place of one of their elective courses.

BA Psychology: 3 credits in Mathematics
3 credits in Biology
6 credits in Psychology

BA Therapeutic Recreation: BIOL 200³ or 201³ or 202³, or equivalent

Students admitted to the BSc Extended Credit Program are required to complete an additional 30 credits for the BSc degree and must include the following 30 credits:

- 6 credits in Chemistry 205³, 206³
- 6 credits in Mathematics 203³, 205^{3*}
- 12 credits in Physics 204³, 205³, 206³, 224¹, 225¹, 226¹
- 3 credits in Biology 201³
- 3 credits in Mathematics 204³ for students intending to enter programs of concentration in Mathematics or Physics;** or electives for all other students

*Students not having MATH 201³, or the equivalent, must take it in place of one of their elective courses.

**Students not having MATH 202³, or the equivalent, must take it in place of one of their elective courses.

NOTE: Students in the BA, BEd or BSc Extended Credit Program may not count towards their programs of concentration courses taken as part of the first 30 credits.

31.003 DEGREE REQUIREMENTS

In accordance with the recommendations of the Council of Universities of Quebec, the credit base takes into account the total activity of the student. A student preparing for the BA, BEd, or BSc degree takes a minimum of 90 credits. Each credit represents, for the average student, a minimum of 45 hours spread across lectures, conferences, tutorials, laboratories, studio or practice periods, tests, examinations, and personal work.

Since the Cegep programs are designed to give all students the opportunity to explore different fields and thus acquire a broad general basis for further study, the undergraduate programs in the Faculty of Arts and Science require some degree of concentration in specific areas. Detailed statements about these programs are made under the appropriate disciplinary headings in the sections

of the Calendar that follow this general account of degree requirements. They represent four main forms of concentration: the *minor*, the *major*, the *specialization*, and *honours*; and a fifth form, the *certificate*. The University's formal definitions of these kinds of programs are set out in §16.2.3; for the convenience of students in Arts and Science, those definitions as they are construed in the Faculty are briefly repeated below.

The *minor* is a program consisting of a *minimum* of 24 specified credits in a single discipline and professing to give a basic introduction to the methodology and key concepts of that discipline. A minor cannot in and by itself provide the concentration required of a candidate for a degree and is therefore always taken in combination with another program. In addition to the interdisciplinary and disciplinary minors available in Arts and Science, students may register with approval for selected minors in other Faculties. Available Arts and Science interdisciplinary minors are listed in §31.170. Disciplinary minors are indicated in the Calendar entry of each department or college.

The Faculty of Arts and Science and the John Molson School of Business:

With the approval of the John Molson School of Business, Arts and Science students may take a Minor in Business Studies (see §61.140).

The Faculty of Arts and Science and the Faculty of Engineering and Computer Science:

With the approval of the Faculty of Engineering and Computer Science, Arts and Science students may take a Minor in Computer Science (see §71.70.5).

All minors in the **Faculty of Fine Arts** are open to suitably qualified students.

The *major* consists of a *minimum* of 36 specified credits taken in an approved sequence of courses. Normally within a major program not more than 36 credits are required from a single discipline or department. In certain programs, however, additional credits are required in cognate disciplines and departments. The major provides a solid grounding in the academic knowledge comprehended within the field of concentration. To enter and remain in it, a student normally does not have to meet a special performance requirement; see, however, Western Society and Culture §31.520. Students with appropriate admission requirements, normally after completion of 24 credits, may request permission to be admitted to a second program of concentration in the Faculty, normally a major. Exceptionally, students may complete a second major in the Faculty of Fine Arts with permission of both Faculties. Students may apply to add a major program normally offered as part of a BA degree to a BSc degree or BEd degree or vice-versa. Attainment of acceptable GPA and satisfactory academic standing are required. The Faculty of Arts and Science will consider favourably such requests subject to admission quotas and the student having the appropriate prerequisite and admission profile (see §31.002). The student record and official transcript indicate all programs of concentration. Specific courses can only be used to fulfill the requirements of one program.

Students completing the requirements of a BA, BEd, BSc, and/or BFA will elect one degree for graduation.

The *specialization* consists of a *minimum* of 60 specified credits, normally not more than 54 credits of which are mandated from a single discipline or department. A specialization provides a comprehensive education in the field of concentration, but to enter and remain in it, a student normally does not have to meet a special performance requirement unless otherwise indicated in the program. Students interested in subsequent "classification" by the Government of Quebec may be advised to follow a specialization or an honours program. Second programs of concentration (minor or major) may be combined with a specialization program according to regulations described above for those programs.

The *honours* program consists of a *minimum* of 60 specified credits taken in an approved sequence of courses. Normally within an honours program not more than 60 credits are mandated from a single discipline or department in the Arts and 72 credits in the Sciences. Additional credits may be required in cognate disciplines and departments. Superior academic performance is required for admission to and continuation in the honours program, the precise level of such performance being determined by Senate. See §16.2.3 and *Faculty Honours Regulations* set out below for matters governing honours programs at Concordia. An honours degree or equivalent, because it testifies to a student's comprehensive education in a particular field, intellectual commitment to that field, and achievement of a high level of academic performance, has traditionally been required of entrants to postgraduate programs.

Graduation Requirements

1. A candidate for graduation must have successfully completed a program of concentration in the form of an *honours*, *specialization*, or *major* program.
2. A candidate for graduation must have successfully completed at least 24 credits outside the single discipline or department from which the degree concentration has been chosen. Within every block of 30 credits taken towards the degree, a student will normally choose no more than 24 credits from any one discipline or department.
3. A candidate for graduation must have successfully completed at least 18 credits from courses in Arts and Science in every block of 30 credits taken towards the degree.
4. A candidate for the BA degree must have qualified for admission to, and successfully completed, a program leading to that degree. Specific admission requirements, expressed as Cegep pre-Arts profiles, are given in §31.002. Students wishing to transfer out of one degree program into another must satisfy the admission requirements of the program they seek to enter.
5. Students enrolled in a regular degree program or an Extended Credit degree program in the Faculty of Arts and Science may take ESL courses for degree credit, up to a maximum of six credits.
6. A candidate for the BSc degree must have qualified for admission to, and successfully completed, a program leading to that degree. Specific admission requirements, expressed as Cegep pre-Science profiles, are given in §31.002. Students wishing to transfer out of one degree program into another must satisfy the admission requirements of the program they seek to enter.

7. A candidate for the BEd degree must have qualified for admission to, and successfully completed, the program leading to that degree. The admission and degree requirements are set out in §31.090.1.
 8. In general, the credits obtained for any course may not be used to satisfy the requirements of more than one program. Students first registered in certain certificate programs may however apply credits obtained towards the certificate to a degree program.
 9. Independent students will be permitted to apply *no more* than 30 credits obtained as an Independent student towards any Arts and Science Faculty degree program.
 10. Those students entering the Faculty of Arts and Science as degree students beginning in the academic year 2002-03 must fulfill the General Education requirement outlined in §31.004.
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Supplemental Examinations (Arts and Science)

Supplemental examinations shall be offered only when, as a condition for passing the course, it is required that a student pass the final examination regardless of its weighting; or where the final examination contributes 50% or more of the final grade. A student failing a course which comprises entirely, or in part, a laboratory or similar practicum, may not be eligible to write a supplemental examination.

All courses which a student fails and for which there is no supplemental examination shall be graded "FNS" or "R." A failed student (see §16.3.11 V) may not write supplemental examinations.

Honours Programs

The Faculty of Arts and Science has programs leading to an honours concentration in certain selected fields. To enter an honours program, students may apply either for direct entry on admission or, if already admitted to a program in the Faculty of Arts and Science, to the departmental honours advisor. The Department will notify the Office of the Registrar of the acceptance.

Honours Regulations (Faculty Regulations) see also §16.2.3

In order to qualify for an honours program, a student must comply with the regulations set forth below.

1. An honours student must meet the general program requirements, as well as the specific requirements for an honours program. A student must complete a minimum of 30 credits in the courses from the honours component of the program at this University to receive a degree with honours. In certain cases, these 30 credits may include some specific courses for which transfer credit may not be awarded.
2. Students who through their past studies have demonstrated a high level of performance may apply for direct entry to an honours program on admission. Information specific to the academic unit may be found in the Undergraduate Application for Admission.
3. Students already admitted to a program at Concordia University may apply for entry into an honours program with a minimum cumulative GPA of 3.30 (B+). It is normally advisable that students have completed 30 Concordia credits in their program before applying for admission to the honours program. Averages are calculated on Concordia courses only.
4. All students must maintain a minimum cumulative GPA of 3.30 as well as a minimum annual GPA of 3.30 within the honours program. The minimum acceptable grade in any course is normally "C."
5. Students who are withdrawn from the honours program may proceed in the corresponding specialization or major program. Reinstatement in the honours program is possible only by appeal to the Faculty Honours Committee.
6. A student is allowed to qualify for only one honours degree in either a single or combined honours program. A student may qualify for a minor or major program in addition to an honours program. In general, the credits obtained for a particular course may be used to satisfy the requirements of only one program.

Students may appeal the determination of their status or interpretation of requirements in the honours program. Such appeals should be addressed to the Associate Dean, Student Academic Services. The Faculty of Arts and Science has an Honours Committee made up as follows: three faculty members; one undergraduate student member; one Student Academic Services counsellor (non-voting); one representative of the Office of the Registrar (non-voting); and the Associate Dean, Student Academic Services, who chairs the Honours Committee.

The Faculty Honours Committee considers applications from departmental honours advisors submitted on behalf of the students for exceptions to the honours regulations. It also adjudicates disputes between students and departments concerning honours programs. Since the Faculty Honours Committee cannot hear appeals contesting its own judgments, students and departments who wish to appeal a decision of the Faculty Honours Committee should address this appeal to the Dean of the Faculty.

31.003.1 Academic Performance Regulations

Objectives

The objectives of these regulations are to ensure that the Faculty can certify that all of its graduates have achieved an acceptable level of scholarship.

Annual Weighted Grade Point Average (WGPA)* Requirements and Consequences

*See §16.3.11 for definition of annual WGPA.

Acceptable standing requires that a student obtain an annual WGPA of at least 2.00.

NOTE: Although a "C" grade (1.70 grade points) is designated as satisfactory in §16.3.3, a WGPA of 2.00 is required for acceptable standing.

Students in acceptable standing may continue their programs of study, following the advice of their academic departments.

Conditional standing results when a student obtains an annual WGPA of less than 2.00, but at least 1.50. A student is not permitted to obtain two consecutive conditional standing assessments.

Students in conditional standing may not write supplemental examinations.

Students in conditional standing will not be permitted to register for further study until their program has been approved by the appropriate advisor in their department.

They must obtain acceptable standing at the time of their next assessment.

Failed standing results when a student obtains an annual WGPA of less than 1.50, or conditional standing in two consecutive periods of assessment.

Failed students may not write supplemental examinations.

Failed students are required to withdraw from their program. Students who are in failed standing for a second time will be dismissed from the University. In subsequent years, should they wish to return to University studies, they must contact the Office of the Registrar for information concerning conditions and procedures for seeking readmission. Decisions of the relevant authority in the Faculty to which application is made are final.

Failed students who are not dismissed may apply for readmission through the Dean's Office of the Faculty to which they wish to be readmitted. If readmitted, they will be placed on academic probation. They must return to acceptable standing at the time of their next assessment. Other conditions will be determined at the time of readmission.

Graduation Requirements

Students must satisfy all course requirements, be in acceptable standing, and have a minimum final graduation GPA of 2.00.

The standings of potential graduates who have attempted fewer than 12 credits since their last assessment are determined on the basis that these credits constitute an extension of the last assessment period.

Potential graduates who fail to meet the requirements of acceptable standing, but meet the requirements of conditional standing, will have the following options:

- a) register for an additional 12 credits and, at the next assessment, meet the requirements for acceptable standing;
or
- b) register for fewer than 12 additional credits.

In this case, standing will be determined on the basis that these extra credits constitute an extension of the last assessment period.

For both option a) and option b), the additional courses taken must be approved by the appropriate member of the Dean's Office, in consultation with the student's department where necessary.

Dean's Office

Dean's Office is to be understood as being the appropriate member of the Dean's Office, normally the Associate Dean, Student Academic Services, or delegate.

31.003.2 Registration Regulations

Lapsed Program

Students enrolled in an honours, specialization, or major program in the Faculty of Arts and Science who have not registered for a course for nine consecutive terms or more will have a lapsed notation entered on their student record. Lapsed students must meet with the appropriate advisor in order to continue in their program and to be made aware of possible program modifications.

31.003.3 In Progress "IP" Notations

Students should refer to §16.3.7 for Procedures and Regulations.

The In Progress "IP" notation is reserved for the following courses offered by the Faculty of Arts and Science:

ACTU 492 ³	Reading Course in Actuarial Mathematics
ACTU 493 ⁶	Honours Project in Actuarial Mathematics
AHSC 435 ³	Fieldwork Practice
AHSC 437 ⁶	Internship in Leisure Sciences
AHSC 438 ⁹	Internship in Therapeutic Recreation
AHSC 439 ⁶	Internship in Human Relations
ANTH 315 ⁶	Field Research
ANTH 495 ⁶	Honours Essay
BIOL 490 ⁶	Independent Study
CATA 390 ³	Athletic Therapy Field Internship
CATA 480 ³	Athletic Therapy Clinical Internship
CHEM 419 ⁶	Independent Study and Practicum
CHEM 450 ⁶	Research Project and Thesis
COMS 394 ³	Communication Studies Apprenticeship I
COMS 395 ³	Communication Studies Apprenticeship II

COMS	496 ³	Directed Study I
COMS	497 ³	Directed Study II
ENGL	474 ³	Honours Essay
ENGL	480 ³	Independent Studies
EXCI	383 ³	Clinical Exercise Physiology Internship I
EXCI	483 ³	Clinical Exercise Physiology Internship II
FTRA	420 ⁶	Stage de formation : de l'anglais au français
FTRA	421 ⁶	Stage de formation : du français à l'anglais
FTRA	422 ³	Stage de formation : de l'anglais au français I
FTRA	423 ³	Stage de formation : du français à l'anglais I
FTRA	424 ³	Stage de formation : de l'anglais au français II
FTRA	425 ³	Stage de formation : du français à l'anglais II
GEOG	490 ³	Internship in Geography
GEOG	491 ⁶	Honours Essay
HIST	304 ³	Tutorial Preparation for the Honours Essay
HIST	493 ⁶	Honours Essay Tutorial
JOUR	450 ³	Independent Study
JOUR	451 ³	Journalism Practicum
MAST	398 ³	Reading Course in Mathematics and Statistics
MATH	495 ³	Reading Course in Pure and Applied Mathematics
MATH	496 ⁶	Honours Project in Pure and Applied Mathematics
PHYS	497 ³	Specialization Research Project
POLI	495 ⁶	Honours Thesis
POLI	497 ³	Internship
PSYC	311 ³	Research Methods and Designs II
PSYC	387 ³	Directed Research in Psychology
PSYC	485 ⁶	Specialization Project
PSYC	495 ⁶	Honours Thesis
RELI	410 ⁶	Honours Thesis
RELI	496 ³	Independent Studies in Religion
SCOL	290 ³	Directed and Independent Study I
SCOL	390 ³	Directed and Independent Study II
SCOL	490 ⁶	Directed and Independent Study III
SCPA	411 ³	Internship
SOCI	409 ⁶	Honours Seminar
SOCI	415 ⁶	Field Research
STAT	498 ³	Reading Course in Statistics
STAT	499 ⁶	Honours Project in Statistics
URBS	483 ³	Directed Studies/Practicum in Urban Planning I
URBS	484 ³	Directed Studies/Practicum in Urban Planning II
URBS	491 ⁶	Honours Thesis or Project
WSDB	496 ⁶	Directed Research

31.004 GENERAL EDUCATION

Coordinator

JOANNE LOCKE, MLS McG., Associate Dean, Academic Programs

Location

Loyola Campus

Faculty of Arts and Science
7141 Sherbrooke St. W.
514-848-2424, ext. 2088
Email: gened@alcor.concordia.ca

Objectives

An education for life requires the ability to read, write, speak, reason, compute, and listen effectively. This is true for all students, whether they are in the social sciences, humanities, natural sciences, or any other Faculty in the University. The General Education requirement is meant to provide breadth to the student's program of study.

Regulations

A candidate for graduation must satisfy the Arts and Science General Education requirement by successfully completing a minimum of six credits from course offerings outside the candidate's disciplinary sector.

The disciplinary sectors comprising the Faculty of Arts and Science are Humanities, Social Science, and Science. The academic units within each sector are as follows:

HUMANITIES: Canadian Irish Studies, Classics, Modern Languages and Linguistics; Communication Studies; English; Études françaises; History; Journalism; Liberal Arts College; Loyola College for Diversity and Sustainability; Philosophy; Theological Studies

SOCIAL SCIENCE: Applied Human Sciences; Economics; Education; Geography, Planning and Environment; Political Science; Religion; School of Community and Public Affairs; Simone de Beauvoir Institute; Sociology and Anthropology

SCIENCE: Biology; Chemistry/Biochemistry; Exercise Science; Mathematics and Statistics; Physics; Psychology; Science College

Courses falling under the administrative umbrella of Interdisciplinary Studies are considered for General Education requirement purposes to fall within the Social Sciences.

Students may also count courses offered by the John Molson School of Business, the Faculty of Engineering and Computer Science, and the Faculty of Fine Arts toward their General Education requirement.

Students enrolled in two areas of concentration which are both within the same disciplinary sector are required to take six credits outside of the sector. For example, students enrolled in a BA Major in History and a BA Major in Theological Studies, both of which fall within the Humanities, must fulfill the requirement by successfully completing either six credits from the Social Science or Science sector, or three credits from the Social Science sector and three credits from the Science sector, or six credits from outside the Faculty of Arts and Science.

Students enrolled in two areas of concentration drawn from different disciplinary sectors will be considered as having satisfied the General Education requirement. For example, students enrolled in a BA Major in Sociology (Social Science) and a BA Major in English (Humanities) will be considered as having satisfied the General Education requirement.

Students enrolled in an undergraduate certificate program are exempt from the General Education requirement as are students pursuing a second or subsequent undergraduate degree.

ESL courses or introductory English language courses are not considered as substitutions for this requirement.

Faculty

Acting Chair

DONALD W. DE GUERRE, PhD *Fielding Inst.*, Associate Professor

Professors

JAMES F. GAVIN, PhD N.Y.
RAYE KASS, PhD *Tor.*
BLUMA LITNER, PhD *Tor.*
VARDA MANN-FEDER, DEd *McG.*

Associate Professors

FERN DELAMERE, PhD *Wat.*
GILBERT ÉMOND, PhD *U.Q.A.M.*
WARREN LINDS, PhD *Br.Col.*
PETER MORDEN, PhD *Wat.*
LISA OSTIGUY, PhD *Iowa*
ROSEMARY REILLY, PhD *McG.*
HILARY ROSE, PhD *Ga.*

Assistant Professors

NATASHA BLANCHET-COHEN, PhD *Vic.B.C.*
JAMES CONKLIN, PhD *C'dia.*
SHANNON HEBBLETHWAITE, PhD *Guelph*
PATTI RANAHAN, PhD *Vic.B.C.*
FELICE YUEN, PhD *Wat.*

Senior Lecturers

STEVEN HENLE, PhD N.Y.
ROBERT HOPP, MA *Iowa*

Lecturer

NARUMI TANIGUCHI, PhD *Texas Tech.*

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

7141 Sherbrooke St. W., Room: VE 223
514-848-2424, ext. 3330 or 2260

Department Objectives

The strategic objective of the Department of Applied Human Sciences is to improve quality of life and well-being. This is accomplished through the integration of theory and practice to promote effective practitioner skill. The Department of Applied Human Sciences is an interdisciplinary and applied academic unit which generates knowledge and provides practice-based education in human relations, leisure sciences, therapeutic recreation, human systems intervention, family life education and community service. Involvement in practical contexts beyond the University provides an important link with members of the community, thereby offering a genuine environment for the exchange of knowledge and expertise.

Programs

Students in Human Relations, Leisure Sciences, and Therapeutic Recreation are required to complete the appropriate entrance profiles. The entrance profile is 0.00G for Human Relations; 0.00G for Leisure Sciences; and 3.14G for Therapeutic Recreation. Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60	BA Specialization in Human Relations
15	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³ , 270 ³
18	AHSC 311 ³ , 330 ⁶ , 370 ³ , 380 ³ , 382 ³
6	AHSC 439 ⁶
6	Chosen from AHSC 423 ³ and 425 ³ or 443 ³ and 445 ³
15	Elective credits, with at least three credits at the 400 level, chosen from AHSC 225 ³ , 312 ³ , 313 ³ , 314 ³ , 315 ³ , 316 ³ , 319 ³ , 322 ³ , 335 ³ , 351 ⁶ , 375 ³ , 460 ⁶ , 465 ³ , 470 ³
60	BA Specialization in Leisure Sciences
12	AHSC 220 ³ , 230 ³ , 241 ³ , 260 ³
15	AHSC 350 ³ , 361 ³ , 371 ³ , 380 ³ , 382 ³
12	AHSC 427 ³ , 431 ³ , 437 ⁶
9	AHSC 215 ³ , 285 ³ ; PHIL 255 ³
12	Elective credits chosen from either Recreation Programming or Recreation Administration
	<i>Recreation Programming</i>
	With at least three credits at the 400 level, chosen from AHSC 281 ³ , 310 ³ , 311 ³ , 323 ³ , 333 ³ , 340 ³ , 360 ³ , 421 ³ , 422 ³ , 444 ³ , 450 ³ , 460 ⁶ , 490 ³ , 491 ³
	<i>Recreation Administration</i>
	With at least three credits at the 300 level, chosen from MANA 201 ³ , 202 ³ , 298 ³ , 299 ³ , 300 ³ , 343 ³ , 362 ³
60	BA Specialization in Therapeutic Recreation
15	AHSC 220 ³ , 230 ³ , 241 ³ , 260 ³ , 281 ³
21	AHSC 350 ³ , 361 ³ , 380 ³ , 381 ³ , 382 ³ , 383 ³ , 384 ³
9	AHSC 427 ³ , 432 ³ , 450 ³
9	AHSC 438 ⁹
6	AHSC 215 ³ ; PHIL 255 ³
42	BA Major in Human Relations
15	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³ , 270 ³
9	AHSC 311 ³ , 330 ⁶
3	AHSC 435 ³
3	Chosen from AHSC 423 ³ , 443 ³
12	Elective credits, with at least three credits at the 400 level, chosen from AHSC 225 ³ , 312 ³ , 313 ³ , 314 ³ , 315 ³ , 316 ³ , 319 ³ , 322 ³ , 335 ³ , 351 ⁶ , 375 ³ , 425 ³ , 445 ³ , 460 ⁶ , 465 ³ , 470 ³
42	BA Major in Leisure Sciences
24	AHSC 220 ³ , 230 ³ , 241 ³ , 260 ³ , 350 ³ , 361 ³ , 371 ³ , 427 ³
9	AHSC 215 ³ , 285 ³ ; PHIL 255 ³
9	Elective credits, with at least three credits at the 400 level, chosen from AHSC 281 ³ , 310 ³ , 311 ³ , 323 ³ , 333 ³ , 340 ³ , 360 ³ , 421 ³ , 422 ³ , 444 ³ , 450 ³ , 460 ⁶
30	Minor in Human Relations
12	AHSC 220 ³ , 230 ³ , 232 ³ , 260 ³
6	AHSC 330 ⁶
12	Elective credits chosen from AHSC 225 ³ , 270 ³ , 311 ³ , 312 ³ , 313 ³ , 314 ³ , 315 ³ , 316 ³ , 319 ³ , 322 ³ , 335 ³ , 351 ⁶ , 375 ³ , 460 ⁶ , 470 ³

Certificate in Community Service

The Department of Applied Human Sciences offers a 30-credit program leading to the Concordia University Certificate in Community Service. Students may transfer into the certificate program up to 12 credits, as approved by a departmental undergraduate advisor, earned in an incomplete degree or certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

Students are required to complete the 0.00G entrance profile to enter the certificate.

Mature Entry students require the prerequisite: ENGL 212³.

30 Certificate in Community Service

NOTE: AHSC 230³, 232³, and 270³ are prerequisites for courses included in this certificate.

Phase I

- 6 AHSC 260³, 370³

Phase II

- 9 AHSC 315³, 330⁶

Phase III

- 6 Chosen from AHSC 423³ and 425³ or 443³ and 445³ or 460⁶

- 9 Elective credits chosen from AHSC 220³, 225³, 311³, 314³, 316³, 319³, 335³, 375³

NOTE: In the event that a student is awarded an exemption from a required course, it will be necessary for the student to replace that course with another relevant to the program, chosen in consultation with the coordinator of undergraduate programs.

Certificate in Family Life Education

The Department of Applied Human Sciences offers a 30-credit program leading to the Concordia University Certificate in Family Life Education. Students may transfer into the certificate program up to 12 credits, as approved by a departmental undergraduate advisor, earned in an incomplete degree or certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Admission Requirements

Students are required to complete the 0.00G entrance profile to enter the certificate.

Mature Entry students require the prerequisite: ENGL 212³.

30 Certificate in Family Life Education

NOTE: AHSC 220³, 230³, and 232³ are prerequisites for courses included in this certificate.

Phase I

12 AHSC 260³, 312³, 313³, 355³

Phase II

6 AHSC 330⁶

Phase III

3 AHSC 435³

9 Elective credits chosen from AHSC 225³, 270³, 311³, 314³, 315³, 316³, 319³, 335³, 460⁶, 465³

NOTE: In the event that a student is awarded an exemption from a required course, it will be necessary for the student to replace that course with another relevant to the program, chosen in consultation with the coordinator of undergraduate programs.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

AHSC 215 Historical Foundations of Leisure and Recreation (3 credits)

This course offers a broad overview of leisure and recreation throughout history, highlighting selected major patterns and important similarities or differences among different historical eras. Students learn about threaded themes related to leisure and recreation that have existed throughout history, as well as the origin and development of leisure/recreation-related systems, such as leisure services and leisure studies, emphasizing Canadian and North American perspectives. The historical roots of leisure, the conditions in society that have affected leisure, the responses to those conditions, and the role of leisure in contemporary life as shaped by historical events are investigated.

NOTE: Students who have received credit for HIST 215 or for this topic under an AHSC 298 number may not take this course for credit.

AHSC 220 Lifespan Growth and Development for Practitioners (3 credits)

This survey course provides an interdisciplinary overview of biopsychosocial patterns of development over the lifespan, from conception to death. Students learn about theories of human development, with an emphasis on typical normative development, and on application of theory to practice. The course material covers key issues in development, major milestones of development, and major life events.

NOTE: Students who have received credit for PSYC 230 may not take this course for credit.

NOTE: Students registered in a Psychology program may not take this course for credit.

AHSC 223 Relationships Across the Lifespan (3 credits)

This course is designed to provide a theoretical overview of how relationships are formed, sustained, and developed/changed in each stage of human life. A variety of theories and perspectives are explored.

NOTE: AHSC students may not take this course for credit.

NOTE: Students who have received credit for AHSC 220, or for this topic under an AHSC or AHSZ 298 number, may not take this course for credit.

AHSC 225 Self-Managed Learning (3 credits)

Prerequisite: Fewer than 30 university credits. This course fosters effectiveness in orienting and directing learning which is precipitated by new personal interests and goals and/or by changing personal circumstances. It enables students to create clear personal visions, set relevant learning goals, create and organize related activities, and assess their progress. The course provides learning process models and ways to identify personal stylistic differences which affect personal learning progress and strategies.

AHSC 230 Interpersonal Communication and Relationships (3 credits)

This course is designed to provide knowledge and skill in building and maintaining interpersonal relationships characterized by mutual understanding and respect. Students can expect to enhance their understanding of themselves and their personal styles. The course focuses on effective communication behaviour. Students can expect to improve their abilities to attend to verbal and non-verbal communication; exchange constructive feedback with others; address and deal constructively with conflict; and communicate across differences, such as gender and race. Conceptual perspectives include the contextual influences in relationship dynamics and the role of affect in interpersonal communication. The course also examines value considerations.

AHSC 232 Working in Task Groups (3 credits)

Prerequisite: AHSC 230. This course is an introduction to understanding interaction and developmental processes of small groups and skill-building for effective participation. It enables students to learn frameworks for observing a group's process, member roles that facilitate positive group processes and task accomplishment, and models of intervention in small groups. The course provides opportunities for students to integrate the theory they learn with their experiences in a task group.

AHSC 241 Recreation and Leisure in Contemporary Society (3 credits)

This course introduces students to the theories and relationships of play, perceptions of free and discretionary time, concepts of leisure, and the historical foundations for the discipline. The concepts are presented as integral components of today's lifestyle. In addition, the organized recreation system is examined, with an introduction to the leisure services delivery system. The students also examine the role that leisure plays in current societal issues.

AHSC 260 Program Planning, Design and Evaluation (3 credits)

The course prepares students to construct effective interactive programs designed for specific client populations. Using program design principles and practices, students match learning activities to desired program outcomes, while considering participant qualities and contextual features. Emphasis is placed on assessment, design, and evaluation knowledge and skills.

AHSC 270 Introduction to Intervention in Human Systems (3 credits)

This course is an introduction to theory of human systems change from an interventionist perspective. It overviews general strategies of human systems intervention and salient models of practice highlighting conditions under which different intervention strategies are most effective. It especially focuses on the principles of fostering participation, collaborative inquiry, process facilitation and consultation, experiential learning, and action research. The course also features attention to values and ethical issues associated with specific strategies.

AHSC 281 Introduction to Therapeutic Recreation (3 credits)

An examination of the fundamental concepts of therapeutic recreation. Included is the study of the historical foundations and the basic terminology, purposes, and theories of therapeutic recreation.

AHSC 285 Social Psychology of Leisure (3 credits)

Prerequisite: AHSC 241 previously or concurrently. This course examines how personal and social factors shape individuals' perceptions, experiences, and responses to the availability of discretionary time. Students review current theory and research focusing on the relationship between leisure and individual functioning, and applications to human problems associated with leisure. *NOTE: Students who have received credit for PSYC 286 or for this topic under an AHSC 298 number may not take this course for credit.*

AHSC 298 Selected Topics in Applied Human Sciences (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

AHSC 310 Tourism in Canada (3 credits)

This course presents an examination of the tourism industry in Canada, including concepts, research, practices, and promotion. Topics covered include destination motivation, commercial recreation, business travel, trends in tourism development, government agencies, the economics of promotion, social objectives, market segmentation, and ethical and legal considerations.

AHSC 311 Respecting Diversity in Human Relations (3 credits)

Prerequisite: 30 university credits including AHSC 230. This course examines theories of diversity and difference, as well as the effects of biases, stereotypes and stigmatization in personal interactions, institutional practices, and socio-cultural norms. It considers the role of identity-related issues such as age, culture, disability, ethnicity, gender, geographical location, health status, history, language, power, race, religion, sexual orientation, and social class in human relationships and systems.

NOTE: Students who have received credit for AHSC 245 may not take this course for credit.

AHSC 312 Sexuality in Human Relations (3 credits)

Prerequisite: 30 university credits including AHSC 220, 230. This course provides students with knowledge of physical and psychosocial aspects of sexuality in relationships through life and examines values, attitudes, and issues related to the development and expression of sexuality. Topics include gender, family, cultural and media influences; historically and culturally based attitudes; prevention and sexually transmitted diseases; self-perception and identity in sexuality; and emotion and sexuality. The course aims to foster respect for persons and diversity.

NOTE: Students who have received credit for AHSC 253 may not take this course for credit.

AHSC 313 Family Communication (3 credits)

Prerequisite: AHSC 220, AHSC 230. This course is a requirement for students enrolled in the Certificate in Family Life Education. This course is an examination of patterns, effective approaches, and issues in communication among persons in primary partnerships and families. It also explores topics such as diversity in forms of "family," decision-making, problem-solving, power relations, gender issues, managing differences in expectations, and the influences of cultural, social, and economic contexts.

NOTE: Students who have received credit for AHSC 254 may not take this course for credit.

AHSC 314 Adolescence: Issues and Intervention (3 credits)

Prerequisite: AHSC 220. This course links knowledge of adolescent development to a more detailed examination of related adolescent patterns and issues, including peer relations and friendship, parental and family relations, identity, sexuality and gender, and socio-economic and cultural influences. Directed towards students interested in working with adolescents, the course combines theoretical and practical knowledge relating to adolescents, their parents and their concerns for the purpose of enhancing the adolescent experience.

AHSC 315 Interviewing (3 credits)

Prerequisite: AHSC 230. This course reviews different forms and concepts relevant to interviewing for use in work and community settings. It examines communication influences on the interviewer and interviewee and the limitations of different interview approaches. It enables students to structure and design interviews, to build rapport, and to manage information flow.

NOTE: Students who have received credit for AHSC 256 may not take this course for credit.

AHSC 316 Adulthood: Patterns and Transitions (3 credits)

Prerequisite: AHSC 220. This course examines relationships, transitions, and developmental change through early adulthood and middle age. Relevant adult development theories are reviewed. Students explore the nature and significance of close relationships, life transitions, choices and contextual influences. This course includes a consideration of the societal values inherent in notions of maturity, optimal environments, and interventions to enhance quality of life.

AHSC 319 Older Adulthood: Issues and Intervention (3 credits)

Prerequisite: AHSC 220. This course explores developmental change patterns and differences among people in older adulthood. Topics include retirement and pensions, concepts of health, fitness, well-being and models of health care, housing and transportation, leisure, family and social relations, ethnicity and aging, loss and grief, death and dying. Designed for persons interested in working with older adults, the course fosters awareness of myths, stereotypes and ageism, and emphasizes an attention to community social support and interventions which are enabling.

AHSC 320 Family and Youth Legislation (3 credits)

Prerequisite: AHSC 220. This course reviews all aspects of federal and provincial legislation that impact on practice with families. Legislation governing marriage, divorce and custody, family violence, child and youth protection and placement, youth crime, child advocacy and the challenges of working with families in relation to the legislation, are presented with a particular focus on the rights of children and the legal responsibilities of practitioners.

AHSC 322 Fundamentals of Child- and Youth-Care Work (3 credits)

Prerequisite: AHSC 220. The objectives of this course are to provide students with an understanding of the scope and status of child- and youth-care work, to sensitize them to the necessary competencies and daily challenges of this work in a range of settings, and to review relevant theory. An overview of the history of the field is provided, as well as a review of seminal writings and recent literature on best practices.

NOTE: Students who have received credit for AHSC 402 or for this topic under an AHSC 398 number may not take this course for credit.

AHSC 323 Gender and Leisure (3 credits)

Prerequisite: 30 university credits including AHSC 241 or 242. This course focuses on theory and empirical research concerning the relationships between gender and leisure. This includes topics such as the effect of gender on leisure meanings, constraints to leisure, and participation in leisure. In addition, this course explores the cultural influences of leisure related to gender identity and gender relations. As part of this, the course explores the role that leisure plays as a significant site for the social construction and contestation of gender. Emphasis is placed on understanding ways in which gender relations and gender role expectations affect and are affected by leisure.

AHSC 330 Leadership in Small Groups (6 credits)

Prerequisite: AHSC 232, 260. This course develops facilitative skills and approaches to leadership in small groups. Students learn effective ways to observe and to interpret the significance of group behaviour for the purpose of intervening effectively. The course highlights factors optimizing participation, patterns of communication and influence, decision-making, problem-solving, collaborative planning, conflict management, and effects of gender and other identity-related differences. Students identify their leadership styles and group facilitation skills to develop flexibility in adapting to diverse group situations.

AHSC 333 Leisure and the Environment (3 credits)

Prerequisite: 30 university credits including AHSC 241 or 242. This course examines the state of the natural environment, and explains how leisure service providers play a crucial leadership role in fulfilling the needs of both the public and the environment.

AHSC 335 Power and Conflict Resolution in Human Systems (3 credits)

Prerequisite: 30 university credits. This course gives students a theoretical and practical overview of the role of power and conflict in human relationships and human systems — groups, organizations, and communities. The concept of power is explored in depth since the use of power is central in both the creation and the resolution of conflict. The course focuses on the development of analytical tools that serve to identify the different elements leading to, maintaining or escalating conflicts. Particular attention is given to ethics associated with the use of power and management of conflict.

AHSC 340 Employee Recreation Services (3 credits)

Prerequisite: 30 university credits including AHSC 241 or 242. This course examines the origins and development of recreation related to the place of employment. It includes critical analysis of the research literature in the areas of work/leisure relationships, cost/benefits, government intervention, and program design and family involvement.

AHSC 350 Leisure Education (3 credits)

Prerequisite: AHSC 241, 260. This course offers an introduction to the field of leisure education. The history and underlying philosophy of the concept is presented. The roles of the school, community, and community-serving agencies are examined. Existing models are analyzed and discussed.

AHSC 351 Basic Counselling Skills and Concepts (6 credits)

Prerequisite: 30 university credits including AHSC 230. This course introduces students to counselling theories and develops an understanding for theoretical and value frameworks of the helping relationship. It fosters the development of basic helping relationship skills applicable in everyday relationships in work and social settings. Skill areas include attending skills, such as attending to nonverbal behaviour, reflection of content, reflection of feeling, paraphrasing and summarizing; and influencing skills, such as interpretation and analysis. Also highlighted are ethical issues and attention to cultural differences.

AHSC 355 Foundations of Family Life Education (3 credits)

Prerequisite: AHSC 232, 260, 313. This course examines Family Life Education from its inception as a field of practice to its current status in North America. It highlights complex related issues and the role of the educator, including attention to personal values and ethical principles of the practitioner. Topics include distinctions between prevention education and therapeutic intervention, and an overview of the range of different family life education programs and current practices.

AHSC 360 Play, Adult Learning and Development (3 credits)

Prerequisite: 30 university credits including AHSC 220. This course examines the concept of play in adult learning and development. Gender, age, ethnic and social class diversity are explored as they relate to adult play behaviour.

AHSC 361 Leisure Services Leadership (3 credits)

Prerequisite: AHSC 230, 241. This course offers an analysis of leadership theory and its application to leisure services. Major topics are the principles and practices of leadership, group dynamics, leadership skill development and program planning, and the unique role of the leisure leader.

AHSC 370 Principles and Practices of Human Systems Intervention (3 credits)

Prerequisite: AHSC 270. This course is about the theory and practice of human system intervention. It emphasizes collaborative strategies for effecting change in human systems within a broad range of intervention alternatives. It focuses on the interventionist's role in effective change strategy development, initiation, management, and evaluation. The course is taught with a special focus on personal and professional values and ethical issues related to human systems intervention.

AHSC 371 Community Recreation Planning (3 credits)

Prerequisite: AHSC 241, 260. The course focuses on the application of recreation planning, theory, and skills. It examines methods and procedures used to assess client needs, design and deliver programs and services, and evaluate their impact. Practical experience is gained through a combination of field experience, project planning, and group work.

AHSC 375 Organizational Leadership: A Human Systems Approach (3 credits)

Prerequisite: AHSC 270. This course is an introduction to the practice of leadership in organizations with a human systems approach and perspective. The course examines a range of theoretical concepts current in organizational leadership practice including systems thinking, team-based leadership, and strategy formulation from a leadership perspective. It provides an opportunity for students to examine ethics, values, and abilities required in organizational leadership today.

AHSC 380 Quantitative Research Methods for Practitioners (3 credits)

Prerequisite: 30 university credits including AHSC 260. This course gives an overview of a range of data collection and analysis strategies which are relevant to collaborative and participative intervention practice. It examines practical considerations for selecting specific quantitative approaches and prepares students to formulate and administer intervention-related questionnaires, to conduct basic quantitative analyses, and to present data results to interested individuals and groups. The course also examines basic ethical requirements in conducting applied social research.

AHSC 381 Concepts in Therapeutic Recreation Programming (3 credits)

Prerequisite: AHSC 241, 260, 281. This course explores current therapeutic recreation practices with emphasis on rehabilitation in community and clinical settings such as hospitals, group homes, psychiatric centres, rehabilitation clinics, and correctional centres. Leisure planning and assessment models are studied to identify the modes of recreational activity which may be used as an intervention.

AHSC 382 Qualitative Research Methods for Practitioners (3 credits)

Prerequisite: 30 university credits including AHSC 260. This course gives an overview of a range of qualitative approaches to practical projects and interventions. It prepares students to design and conduct interviews (including making decisions about respondent selection) with individuals and in focus groups, as well as participant observation. It also enables students to analyze qualitative data from these sources as well as documentary sources in light of practical project purposes. The course highlights special ethical considerations in conducting qualitative forms of applied social research.

AHSC 383 Therapeutic Recreation and Physical Disabilities (3 credits)

Prerequisite: AHSC 220, 281. This course gives an overview of the role and impact of therapeutic recreation services for individuals with physical disabilities and limitations. It analyzes the barriers to recreation participation along with the planning and designing of a safe and accessible recreational environment.

AHSC 384 Therapeutic Recreation: Cognitive Disabilities and Illness (3 credits)

Prerequisite: AHSC 220, 281. This course gives an overview of the role of therapeutic recreation services for individuals with cognitive disabilities and limitations or illness. It focuses on the etiology, impact, and barriers related to specific conditions. It also studies legislation trends and resources for community recreation integration and the role of transitional programs.

AHSC 398 Selected Topics in Applied Human Sciences (3 credits)**AHSC 399 Selected Topics in Applied Human Sciences** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

AHSC 405 Youth Work Intervention (3 credits)

Prerequisite: 30 university credits including AHSC 322. This course focuses on problems of children and youth, including difficulties with attachment, behaviour disorders, consequences of abuse and neglect, and substance abuse. It covers models of intervention and assessment that are current in youth work such as Therapeutic Crisis Intervention (TCI), strength-based approaches, and therapeutic procedures.

AHSC 410 Advanced Youth Work Intervention (3 credits)

Prerequisite: AHSC 405. This course covers specialized professional skills of youth work. There is a required fieldwork component to include one hour per week of observation in a child and youth care setting. The goal of the course is to assist the student in individualizing intervention plans, and in evaluating outcomes of intervention within the context of ethical youth work practice.

AHSC 421 Political and Legal Aspects of Leisure Services (3 credits)

Prerequisite: 30 university credits including AHSC 241. This course provides students with a theoretical understanding of the complexity of providing leisure services in the province of Quebec. The course examines the administration of leisure services in municipal, regional, provincial, and federal governments. The course examines law as it applies to aspects of recreational activities in the areas of organization, supervision, and participation. The course covers the Quebec Civil Code, the Canadian Constitution, and the Quebec and Canadian Charter of Rights and Freedoms as they apply to the study of leisure.

AHSC 422 Youth and Leisure (3 credits)

Prerequisite: 30 university credits including AHSC 220, 241, 260. This course develops an understanding of the leisure needs of youth from emotional, physical, psychological, and sociological perspectives. Major areas of discussion include leisure preferences and needs assessment, strategies for programming, dealing with youth-at-risk, and recreational opportunities for youth. Lectures and laboratory.

AHSC 423 Organization Development I (3 credits)

Prerequisite: AHSC 270, 330. This course introduces students to the characteristics of organizations as open systems. The evolution of organization development and the principle theories and perspectives that have helped to define the field are studied. Organization development methods as well as criteria for examining organizational effectiveness, underlying beliefs, values, and assumptions are examined. Key concepts covered are organization vision, mission and goals, and organization norms and culture.
NOTE: Students who have received credit for AHSC 420 may not take this course for credit.

AHSC 425 Organization Development II (3 credits)

Prerequisite: AHSC 423. This course provides students with the opportunity to apply organization development concepts and strategies to effect change in organizations. Using theoretical, case, and experiential approaches, the focus of instruction progressively guides the student through the stages of organization development. Concepts covered include entry and contracting, identifying organizational issues and goals for change, collecting and analyzing pertinent organizational data, and diagnosis and feedback to the client. Opportunities for the development of change-agent skills are provided through the emphasis on in-class applications.
NOTE: Students who have received credit for AHSC 420 may not take this course for credit.

AHSC 427 Administration of Leisure Services (3 credits)

Prerequisite: 60 university credits including AHSC 361; AHSC 371 or 381. This course offers an analysis of the processes involved in planning and managing leisure service delivery systems. Topics to be studied include principles of planning, organization, budgeting, and supervision.

AHSC 431 Leisure Sciences Seminar (3 credits)

Prerequisite: 60 university credits including AHSC 215, 361, 371; and PHIL 255 previously or concurrently. This is a third-year interdisciplinary seminar in which students can tie together all they have learned in the Leisure Sciences program. Additionally, students are set on a course of study that should continue after they graduate so that they can keep up with future developments in this area.

AHSC 432 Seminar in Therapeutic Recreation (3 credits)

Prerequisite: 60 university credits including AHSC 215, 361, 381, 383, 384; and PHIL 255 previously or concurrently. This is a third-year interdisciplinary seminar in which students can tie together all that they have learned in the Therapeutic Recreation program. Additionally, students are set on a course of study that should continue after they graduate so that they can keep up with future developments in this area.

AHSC 435 Fieldwork Practice (3 credits)

Prerequisite: AHSC 330. This course must be taken in final year. This course provides an opportunity for students to integrate theory into practice in the design, facilitation and evaluation of small group process. Students lead one small task or learning group in a community, an organizational or an institutional setting. The fieldwork is combined with class sessions for orientation, supervision, reflection and evaluation.

AHSC 437 Internship in Leisure Sciences (6 credits)

Prerequisite: 60 university credits including AHSC 361, 371; permission of the Department. This course provides students with an opportunity to design, implement, and evaluate programs; to facilitate groups in a variety of settings; and to establish working relationships with field personnel. In consultation with their supervisors, students select a site related to their learning interests. Students learn to develop and manage their own project and to self-assess their work. The course includes fieldwork, seminars, and team meetings.

AHSC 438 Internship in Therapeutic Recreation (9 credits)

Prerequisite: 60 university credits including AHSC 361, 381, 383, 384; permission of the Department. This course provides students with an opportunity to design, implement, and evaluate programs, to facilitate groups in a variety of settings, and to establish working relationships with field personnel. In consultation with their supervisors, students select a site related to their learning interests. Students learn to develop and manage their own project and to self-assess their work. The course includes fieldwork, seminars, and team meetings.

AHSC 439 Internship in Human Relations (6 credits)

Prerequisite: 60 university credits including AHSC 330, 370; AHSC 423 and 425 or 443 and 445 previously or concurrently; permission of the Department. This course provides students with an opportunity to design, implement, and evaluate small group leadership in several settings, and to negotiate working relationships with site personnel. Students will be solely responsible for facilitating several task or learning groups in community, work, or educational settings. The sites will be selected according to students' learning interests and in consultation with the course instructor. The course includes supervisory team meetings and internship seminar sessions.

AHSC 443 Community Development I (3 credits)

Prerequisite: AHSC 270, 330. This course examines the field of community development through the presentation of basic models. The examination of these models in historical and environmental contexts focuses on understanding how they reflect different views of social relationships. Students explore different approaches to working with communities and the implications for practice. They also examine ways of analyzing and defining community resources, problems, and issues.

NOTE: Students who have received credit for AHSC 440 may not take this course for credit.

AHSC 444 The Older Adult and Leisure (3 credits)

Prerequisite: 30 university credits including AHSC 220, 241, 260. This course examines the aging process in the physical, cognitive, and affective domains. It familiarizes the student with the characteristics of the aging population as related to leisure, recreation, and lifestyle. It focuses on developing and understanding the impact of lifelong leisure in the aging process. The course reviews issues related to the phenomenon of leisure in retirement and discusses the process of delivering leisure services to older individuals.

AHSC 445 Community Development II (3 credits)

Prerequisite: AHSC 443. This course focuses on how to intervene in community contexts; identify community structures and inter-group dynamics relevant to intervention planning; gather and organize data for use by communities; develop intervention plans that involve the community each step of the way and that foster leadership within its ranks; and evaluate an intervention. Attention is given to cultural diversity and value differences.

NOTE: Students who have received credit for AHSC 440 may not take this course for credit.

AHSC 450 Leisure Assessment and Counselling (3 credits)

Prerequisite: 30 university credits including AHSC 281, 350. This course focuses on the use of assessment applied to individual leisure abilities, interests and needs, and the application of counselling theory to the field of leisure services. A variety of assessment tools are analyzed/interpreted. Theories, models, and methods of leisure counselling are discussed.

AHSC 456 Advanced Family Life Education (3 credits)

Prerequisite: AHSC 355. This course covers advanced professional skills of family life education with a focus on ethics, professionalism, and certification. Topics include group dynamics, communication skills, and effective leadership. There is a required fieldwork component to include one hour per week of observation in a family life education setting.

AHSC 460 *Health Promotion* (6 credits)

Prerequisite: 30 university credits including AHSC 230. This course helps students to develop intervention skills and theoretical understanding in the area of health promotion. It is of particular interest to students whose career interests involve lifestyle planning, health promotion, and stress management. Topics include health and wellness, stress and illness, psychological and physical self-appraisal processes, psychosomatic processes and disorders, understanding addictions and their management, health-promotion interventions, behavioural self-management, and issues in medical/psychological health compliance.

AHSC 465 *Parent-Child Relations* (3 credits)

Prerequisite: 30 university credits including AHSC 232, 313. This course provides an advanced understanding of parenting theories, research, and applications in the context of parent-child relations over the life span. Topics include parenting rights and responsibilities, parenting practices and programs, high-risk parenting, and parental assessment.

NOTE: Students who have received credit for this topic under an AHSC 498 number may not take this course for credit.

AHSC 470 *Basic Human Relations Laboratory* (3 credits)

Prerequisite: 60 university credits including AHSC 330. This is an intensive format six-day learning session through which students may expect to increase their awareness of how their behaviour affects others, increase their skill and understanding of effectively and responsibly communicating to and exchanging feedback with others, increase their understanding of leadership and authority relations, and deepen their understanding of group dynamics.

AHSC 480 *Internship in Family Relations* (6 credits)

Prerequisite: 60 university credits including AHSC 456 and 465; permission of the Department. This 360-hour internship must be completed over two terms and involves a supervised placement implementing family life education programs in a wide range of settings such as community organizations, education, and health care. Students are responsible for developing, implementing, and evaluating a number of lesson plans and programs, and are supervised and evaluated by an on-site field supervisor.

AHSC 485 *Internship in Youth Work* (6 credits)

Prerequisite: 60 university credits including AHSC 410; permission of the Department. This 360-hour internship must be completed over two terms and involves a supervised placement in a child and youth care or youth protection setting. Students are responsible for developing, implementing, and evaluating a minimum number of intervention plans, and are supervised and evaluated by an on-site field supervisor.

NOTE: Students who have received credit for this topic under an AHSC 499 number may not take this course for credit.

AHSC 490 *Independent Study I* (3 credits)

Prerequisite: 30 university credits; permission of the Department. Students work on topics in consultation with a study supervisor. The study may include readings, field studies, and/or research.

AHSC 491 *Independent Study II* (3 credits)

Prerequisite: 30 university credits; permission of the Department. A student who has received credit for AHSC 490 may register for AHSC 491.

AHSC 498 *Advanced Topics in Applied Human Sciences* (3 credits)**AHSC 499 *Advanced Topics in Applied Human Sciences* (6 credits)**

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.030

BIOLOGY

Faculty

Chair

PATRICK J. GULICK, PhD *Calif. (Davis)*, Professor

Distinguished Professors Emeriti

RAGAI K. IBRAHIM, PhD *McG.*
ELAINE B. NEWMAN, PhD *Harv.*

Professors

GRANT BROWN, PhD *Nfld.*
JAMES GRANT, PhD *Guelph*
DONAL HICKEY, PhD *Harv.*
ROBERT M. ROY, PhD *Tor.*
REGINALD K. STORMS, PhD *Alta.*
VLADIMIR TITORENKO, PhD *Inst. Genetics & Selection Indust. Microorg. (Moscow)*
ADRIAN TSANG, PhD *York (Can.)*
MALCOLM WHITEWAY, PhD *Alta.*

Associate Professors

CATHERINE BACHEWICH, PhD *York (Can.)*
SELVADURAI DAYANANDAN, PhD *Boston*
EMMA DESPLAND, PhD *Oxf.*
VINCENT MARTIN, PhD *Br. Col.*
MICHAEL SACHER, PhD *McG.*
LUC VARIN, PhD *C'dia.*
ROBERT WELADJI, PhD *Norwegian Life Sci.*
WILLIAM ZERGES, PhD *Prin.*

Assistant Professors

CHRISTOPHER BRETT, PhD *Johns H.*
IAN FERGUSON, PhD *C'dia.*
DYLAN FRASER, PhD *Laval*
MADOKA GRAY-MITSUMUNE, PhD *Br. Col.*
ALISA PIEKNY, PhD *Calg.*
DAVID WALSH, PhD *Dal.*

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Richard J. Renaud Science Complex
514-848-2424, ext. 3400

Department Objectives

The Biology Department is dedicated to teaching and research that advance understanding of life from molecules and cells to organisms, populations, and entire ecosystems. The Department's programs inspire students with an appreciation of the rich diversity of the living world.

Students acquire a comprehensive grounding in modern biology through classroom study as well as extensive hands-on training in research methodology. A variety of specialized laboratories and equipment supports both research and teaching activities.

Programs

The Biology Department offers Honours and Specialization programs in Biology, Cell and Molecular Biology, and Ecology, as well as Major and Minor programs in Biology. Students planning a career or graduate studies in the biological sciences normally follow the appropriate honours or specialization program. The major program is designed for students who wish to study biology

and either obtain a more general education or pursue an additional program in another discipline. The major program can be combined with a major in another department.

Students registered in the Honours, Specialization, or Major in Biology may select Biology electives in various subject areas in order to obtain a broad overview of the discipline. However, it is possible for students to pursue in-depth studies in specific areas such as animal biology, plant biology, or microbiology and biotechnology.

The minor program can only be taken by students registered in another degree program and provides an opportunity to gain a basic exposure to the main sub-disciplines of Biology or to pursue one such area in some depth.

Students are strongly encouraged to take advantage of academic counselling services available in the Biology Department in order to select the program and courses that best meet their needs. Students may transfer among programs after the first year of study since the core courses in all programs are quite similar.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

72 BSc Honours in Biology

30 BIOL 225³, 226³, 227³, 261³, 266³, 367³, 490⁶; CHEM 221^{3*}, 271³

3 Chosen from BIOL 322^{3***}; CHEM 212³

9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³

30 Chosen from CHEM 222³; Biology credits** at the 300 and 400 levels with at least nine credits at the 400 level

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in another program, to the departmental honours advisor normally following the completion of 30 credits. Admission, retention, and graduation in an honours program requires that the student has a cumulative and last annual GPA of at least 3.30 with no grade below C.

72 BSc Honours in Cell and Molecular Biology

51 BIOL 225³, 226³, 261³, 266³, 364³, 366³, 367³, 368³, 466³, 490⁶; CHEM 212³, 221^{3*}, 222^{3*}, 271³, 375³, 477³

21 Chosen from BIOL 227³; Biology or Chemistry/Biochemistry credits** at the 300 and 400 levels, with at least 12 credits at the 400 level

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in another program, to the departmental honours advisor normally following the completion of 30 credits. Admission, retention, and graduation in an honours program requires that the student has a cumulative and last annual GPA of at least 3.30 with no grade below C.

72 BSc Honours in Ecology

33 BIOL 225³, 226³, 227³, 261³, 266³, 367³, 450³, 490⁶; CHEM 221^{3*}, 271³

3 Chosen from BIOL 322^{3***} or equivalent

9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³

12 Chosen from BIOL 321³, 350³, 351³, 353³, 354³

6 Chosen from BIOL 451³, 453³, 457³, 459³

9 Chosen from CHEM 222³; Biology credits** at the 300 and/or 400 levels

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in another program, to the departmental honours advisor normally following the completion of 30 credits. Admission, retention, and graduation in an honours program requires that the student has a cumulative and last annual GPA of at least 3.30 with no grade below C.

60 BSc Specialization in Biology

24 CHEM 221^{3*}, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³

3 Chosen from BIOL 322^{3***}; CHEM 212³

9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³

24 Chosen from CHEM 222³; Biology credits** at the 300 and 400 levels with at least six credits at the 400 level

66 BSc Specialization in Cell and Molecular Biology

45 CHEM 212³, 221^{3*}, 222^{3*}, 271³, 375³, 477³; BIOL 225³, 226³, 261³, 266³, 364³, 366³, 367³, 368³, 466³

21 Chosen from BIOL 227³; Biology or Chemistry/Biochemistry credits** at the 300 and 400 levels, with at least 12 credits at the 400 level

60 BSc Specialization in Ecology

24 BIOL 225³, 226³, 227³, 261³, 266³, 367³; CHEM 221^{3*}, 271³

3 Chosen from BIOL 322^{3***} or equivalent

9 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³

9 Chosen from BIOL 321³, 350³, 351³, 353³, 354³

6 Chosen from BIOL 450³, 451³, 453³, 457³, 459³

9 Chosen from CHEM 222³; Biology credits** at the 300 and/or 400 levels

45 BSc Major in Biology
24 CHEM 221³, 271³; BIOL 225³, 226³, 227³, 261³, 266³, 367³
3 Chosen from BIOL 322^{3***}, CHEM 212³
6 Chosen from BIOL 330³, 337³, 340³, 364³, 371³, 382³, 385³
12 Chosen from CHEM 222³; Biology credits** at the 300 and 400 levels with at least three credits at the 400 level

24 Minor in Biology
9 BIOL 225³, 226³, 227³
3 Chosen from BIOL 206³, 210³, 261³
12 Biology elective credits

*Students entering the program with Cegep Organic Chemistry must replace these credits with an equivalent number of credits in Biology or Chemistry/Biochemistry.

**In addition to BIOL courses at the 300 and 400 levels, these courses can include BIOL 227 (only in the Cell and Molecular Biology programs and counting as a 300-level elective) and the following CHEM courses: 222 (counting as a 300-level elective), 326, 335, 375, 425, 470, 471, 472, 475, 476, 478, 481, and 498 if the topic is approved by formal student request through the Biology departmental advisor.

***See §200.7.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

BIOL 200 Fundamentals of Human Biology (3 credits)

A series of lectures, demonstrations, and seminars to provide non-biologists with a general survey of the fundamental principles of life, with special emphasis on the structures and functions of human beings. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit. Students who have completed Cegep Biology 921/931 may not take this course for credit.

BIOL 201 Introductory Biology (3 credits)

Fundamentals of plant and animal biology: basic physics and chemistry of life; cell and tissue structures and functions; anatomy and physiology of human systems; survey of plant and animal taxonomy, ecology, heredity, and evolution. Lectures and laboratory.

NOTE: Students with Cegep Biology 301 or equivalent may not take this course for credit. Students entering BIOL programs without Cegep Biology 301 or equivalent must take this course, but not for program credit.

BIOL 202 General Biology (3 credits)

This course presents the fundamentals of biology including the basic physics and chemistry of life, the structure and functions of cell and tissues, and aspects of anatomy, physiology, taxonomy, heredity and evolution, with examples ranging from micro-organisms to humans. Lectures only.

NOTE: Students with Cegep Biology 301, 101-NYA or BIOL 201 may not take this course for credit. Students enrolled in BSc programs may not take this course for credit.

BIOL 203 Fundamental Nutrition (3 credits)

This course deals with food composition (carbohydrates, lipids, proteins, vitamins, and minerals), its absorption and utilization, energy balance, special diets, and food technology. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit.

BIOL 205 Introduction to Sustainability (3 credits)

This course begins with an introduction to the science of ecology and to the concept of sustainability as an ecological principle. The concept of sustainability is then broadened to include humans, as students are introduced to ethics, economics, and resource management from an eco-centric point of view. Students are encouraged to think critically about current environmental problems and to take action on an individual project.

NOTE: Students who have received credit for BIOL 208, BIOZ 208 or for this topic under a BIOL 298 number may not take this course for credit.

BIOL 206 Elementary Genetics (3 credits)

A survey of classical and contemporary developments in the study of heredity, with particular attention to human examples. This course is open to the general student body. Lectures only.

NOTE: Students who have received credit for BIOL 261 may not take this course for credit.

NOTE: Students transferring into a Biology program may retain degree credit for this course.

BIOL 208 Environmental Biology (3 credits)

This course examines the principles and concepts of ecosystems, the interaction of organisms and their environment. Energy flow and nutrient cycling in ecosystems, population dynamics, and community organization. Lectures only.

NOTE: Students registered in a Biology or Biochemistry program may not take this course for credit.

NOTE: Students who have received credit for BIOZ 208, BIOL 205 or for this topic under a BIOL 298 number may not take this course for credit.

BIOL 210 *Genetics and Human Welfare* (3 credits)

This course is an introduction to the principles of inheritance, the structure and manipulation of DNA, the organization of genomes and the function of genes. Applications based on DNA structure include exploring human origins and forensic DNA. Gene function and manipulation are illustrated by human traits and genetic diseases, cancer, genetic testing, production of proteins for medical and industrial use, and the production of genetically modified organisms. Scientific progress is illustrated and societal and ethical questions raised by progress in genetics are discussed. This course assumes students have no science background.

NOTE: Students registered in a Biology or Biochemistry program other than the Minor in Biology may not take this course for credit.
NOTE: Students who have received credit for BIOZ 210 may not take this course for credit.

BIOL 225 *Form and Function of Organisms* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201. An introduction to plant and animal form and function is presented. This course provides an overview of basic physiological and morphological aspects of plants and animals that allow survival and reproduction. Topics in animal biology include animal architecture, internal fluids, homeostasis, digestion and nutrition, nervous and chemical coordination; topics in plant biology include plant organization, photosynthesis, respiration, water relations, and growth regulation. Reproduction and development of both plants and animals are introduced. Lectures only.

BIOL 226 *Biodiversity and Ecology* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201. This course introduces the evolution, biodiversity, and ecology of organisms. The origin and diversity of life, from prokaryotes, through simple eukaryotes to multi-cellular organisms are introduced. Natural selection, speciation, and phylogeny, stressing evolutionary relationships in conjunction with changing conditions on earth, are presented. The course introduces major concepts in ecology: the physical and chemical environment, population structure, life histories, species interactions, communities, and ecosystems. Lectures only.

BIOL 227 *Laboratory Studies in Biodiversity* (3 credits)

Prerequisite: BIOL 225; BIOL 226 previously or concurrently. Laboratory exercises are designed to acquaint students with biodiversity and to introduce methodologies common to studies of organisms and populations. This course includes field trips, dissections, use of taxonomic keys, and basic exercises in physiological function. Use of the microscope, variability within populations, basic techniques in microbiology, and elementary population dynamics are presented. Tutorials include videotapes of plant and animal diversity, history, and behaviour. Laboratory and tutorial.

BIOL 261 *Molecular and General Genetics* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201; CHEM 221 previously or concurrently. Basic genetic principles, including mechanisms of meiosis and mitosis, Mendelian genetics, recombination, gene mapping, and chromosome rearrangements; an introduction to molecular genetics, including nucleic acid structure and biosynthesis transcription and translation; the course also includes an introduction to recombinant DNA technology and to concepts of population genetics. Lectures and tutorials.

BIOL 266 *Cell Biology* (3 credits)

Prerequisite: Cegep Biology 301 or 101-NYA or BIOL 201. Structure and functions of the cell and its organelles: cytoskeleton, chromosomes, cell cycle and cell division, organelle biogenesis, molecular motors, trafficking of proteins and membranes, signal transduction, trans-membrane transport, cancer, apoptosis. Lectures only.

BIOL 298 *Selected Topics in Biology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

BIOL 321 *Evolution* (3 credits)

Prerequisite: BIOL 225, 226. Through readings, discussions, and lectures, students explore the evidence for evolution, as well as current theories for the mechanisms that cause evolutionary change. Topics covered include principles of inheritance, the origin of genetic variation, adaptation through natural selection, random processes in evolution, the origin of species, and the role of macroevolutionary processes in shaping current patterns of biodiversity. Lectures and tutorials.

BIOL 322 *Biostatistics* (3 credits)

Prerequisite: Nine BIOL credits in a Biology Major, Honours, or Specialization program or completion of Stage I of the Geography Honours or Specialization programs in Environmental Science or permission of the Department. Statistical methods for the biological sciences; sampling; experimental design; data description; elementary probability; binomial, Poisson and Normal distributions; statistical inference; hypothesis testing; chi-square; analysis of variance; correlation; regression; covariance analysis; and analogous non-parametric techniques. Lectures and laboratory. *NOTE See §200.7*

BIOL 330 *Vertebrate Biology* (3 credits)

Prerequisite: BIOL 225, 226. This course surveys the biology of vertebrates. Topics include the evolution of the major groups and a comparative analysis of the form (anatomy), function (physiology), and life history of vertebrates. Examples from the local fauna are emphasized. Lectures and laboratories.

NOTE: Students who have received credit for BIOL 387 may not take this course for credit.

BIOL 337 *Invertebrate Biology* (3 credits)

Prerequisite: BIOL 225, 226, 227. This course surveys the diversity of invertebrates and their functional systems, emphasizing the basic themes that define each phylum and those that are common to all animals. The course focuses on evolution, life histories, physiology, and anatomy of the major phyla and the diversity of the minor phyla. Lectures and laboratory.

NOTE: Students who have received credit for this topic under a BIOL 398 number may not take this course for credit.

BIOL 340 *Plant Biology* (3 credits)

Prerequisite: BIOL 225, 226. This course surveys the biology of the plant kingdom. Topics include the evolution of the major groups and a comparative analysis of the form (anatomy), function (physiology), and life history of plants. Examples from the local flora are emphasized. Lectures and laboratory.

BIOL 350 *The Ecology of Individuals* (3 credits)

Prerequisite: BIOL 225, 226. This course is designed to introduce students to the diversity of adaptations possessed by individuals which enables them to interact successfully with the abiotic and biotic environment. Major topics include adaptive responses to temperature, water, light, and other species. Physiological adaptations are emphasized. Lectures only.

BIOL 351 *Basic Population Ecology* (3 credits)

Prerequisite: BIOL 226. This course introduces the processes which determine the distribution and abundance of individuals in populations. Population growth, density-dependent and density-independent population regulation, survivorship, life history parameters, the population dynamics of competition, predation and parasitism, and the roles of predation and competition in affecting community structure are discussed. Lectures and tutorials.

BIOL 353 *Communities and Ecosystems* (3 credits)

Prerequisite: BIOL 225, 226; BIOL 227 previously or concurrently. This course presents an introduction to biological communities, the processes that maintain them and their emergent properties. Topics include the interactions between abiotic and biotic factors in determining community composition, the concepts of niche and habitat, succession theory, community diversity and stability, energy flow and nutrient cycling. Examples emphasize both aquatic and terrestrial ecosystems, and the major global biomes. Lectures only.

BIOL 354 *Behavioural Ecology* (3 credits)

Prerequisite: BIOL 226. Behavioural ecology is the study of behavioural adaptation. The topics include foraging, anti-predator, fighting, mating, reproductive and social behaviour. Students will be introduced to optimality and game theories. Lectures and tutorials.

BIOL 364 *Cell Physiology* (3 credits)

Prerequisite: BIOL 266; CHEM 271. This course covers general and specialized processes at the molecular and cellular level in eukaryotes and prokaryotes; protein folding and degradation, signalling by nerves, bioenergetics (respiration and photosynthesis), cell motility, muscle contraction, eukaryotic cilia and flagella, sensory perception, and fundamental immunology. Lectures only.

BIOL 366 *Mechanisms of Development* (3 credits)

Prerequisite: BIOL 261, 266. This course explores the mechanisms of cellular interactions and genetic control that govern cell differentiation and development in a range of organisms, from simple model systems to mammals. Specific questions address how cell movement and cell recognition take place, how the genome is restricted in differentiation, how cytoplasmic signals influence differentiation, how gradients affect development, how genes control segmentation, and how growth factors and hormones influence development. The role of genetic engineering in the understanding of developmental processes is discussed. The course is based on gaining an understanding of the basic concepts, mechanisms, and experimental tools used in developmental research. Lectures only.

BIOL 367 *Molecular Biology* (3 credits)

Prerequisite: BIOL 261; CHEM 271. DNA structure, recombination, gene structure, gene expression, and its regulation. The experimental evidence that supports these concepts is also discussed. Lectures and tutorials.

BIOL 368 *Genetics and Cell Biology Laboratory* (3 credits)

Prerequisite: BIOL 261, 266; CHEM 212 or 217 or BIOL 227. This course introduces students to the basic laboratory techniques of cell biology, microbiology, bacterial genetics, and molecular biology. Experiments include cell membrane functions in red blood cells, bacterial identification, mutagenesis, genetic transformation, gene mapping, DNA isolation and recombinant DNA techniques. Through tutorials, students learn the theory behind techniques and their use in research. Special focus is placed on lab manipulation skill, data organization, and data interpretation. Laboratory and tutorials.

BIOL 371 *Microbiology* (3 credits)

Prerequisite: Six credits chosen from BIOL 226, 261, CHEM 271; or permission of the Department. This course provides an in-depth study of the structure and function of microbes. It emphasizes the genetic and biochemical characteristics of microbes which distinguish them from plants and animals. Consideration is also given to the impact of microbes on the global environment and on the quality of human life. Lectures only.

BIOL 380 *Nutrition* (3 credits)

Prerequisite: CHEM 221, 271. The concept of a balanced diet is studied in relation to caloric content and to protein, lipid, carbohydrate, vitamin, and mineral requirements. The consequences of dietary deficiencies are examined. Special topics such as dieting, organic foods, vitamins, food additives, and toxins are discussed. Lectures only.

BIOL 381 *Environmental Toxicology* (3 credits)

Prerequisite: BIOL 225, 226. The purpose of this course is to study the impact of pollution on ecosystems. The major classes of pollutants are considered in relation to their nature, origin, and distribution, and particularly their mode of action on individual

organisms and ecosystems. Air, water, and soil are examined with their respective pollutants and a major emphasis is given to quantitative assessments of various agents and their effects. The course also includes theoretical and practical aspects of bio-assays, and an overview of case studies and of control measures. Lectures only.

BIOL 382 Comparative Animal Physiology (3 credits)

Prerequisite: BIOL 225, 226, 266. This course offers a comparative analysis of physiological processes across diverse animal groups at the cellular and systems levels. Topics include endocrinology, muscle contraction, sensory integration, nervous systems, respiration, digestion, and circulation. Lectures and laboratory.

BIOL 385 Entomology (3 credits)

Prerequisite: BIOL 225; BIOL 226 previously or concurrently, BIOL 227 recommended. This course introduces the student to the variety and complexity of insect life. Basic classification is followed by a more detailed study of morphology and anatomy, together with some physiological considerations. Other topics such as adaptations for aquatic life and social behaviour are discussed. Laboratories include the identification of insects collected by students, as well as structured laboratory sessions which complement the lectures. Lectures and laboratory.

BIOL 398 Intermediate Topics in Biology (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

BIOL 443 Plant Molecular Genetics (3 credits)

Prerequisite: BIOL 367. This course analyzes plant genome structure, mRNA population complexity, gene-cloning strategies, gene transfer in plants, gene regulation, and a survey of topics such as signal transduction, plant disease resistance, herbicide resistance, metabolic engineering, and environmental stress resistance. Innovative applications of molecular analysis and genetic engineering in plants have had a dramatic impact on our basic understanding of plant growth and development, on genetic improvements of commercial varieties of crop plants, and on novel applications such as the production of pharmaceutical compounds, plastics and mammalian antibodies in plants. Lectures only.

BIOL 450 Techniques in Ecology (3 credits)

Prerequisite: BIOL 227, 322 or equivalent, and a minimum of six credits from BIOL 321, 350, 351, 353, 354. This course introduces students to a variety of techniques of experimental design, data collection, and quantitative analysis. Students participate in a series of modules, each of which presents experimental and analytical techniques appropriate for one area of modern research in ecology, behaviour, or evolution. Some modules require students to collect and subsequently analyze original data from field or laboratory settings. Modules and their contents may vary from year to year. Tutorials and laboratory.

BIOL 451 Plant Field Ecology (3 credits)

Prerequisite: BIOL 322 or equivalent, BIOL 353. This course is designed to give students practical experience working with plant communities. It is offered at a field station during the last two weeks of August, and residence is mandatory. Students learn to identify plant species occurring in field, forest, and mountain communities, with the aim of describing and understanding plant community patterns. Methods of sampling and statistical analysis of population and community data are discussed and applied. The course is a combination of formal lectures, organized field studies, and informal discussions. Students are required to hand in a series of written reports and a plant collection after the course has ended.

BIOL 452 Population and Conservation Genetics (3 credits)

Prerequisite: BIOL 261; three credits chosen from BIOL 321, 351, 353, 367. Conservation genetics employ the principles of population genetics and systematics to address problems related to conservation of biodiversity. This course examines the main factors that affect genetic variation within and among populations, including natural selection, random genetic drift, mutation and gene flow. The impact of human activities on levels and patterns of genetic variation in both plant and animal communities is discussed. The utility of molecular markers in determining conservation units is examined. Several case studies from the current literature are used to illustrate the many applications of modern molecular techniques in conservation genetics. The course comprises lectures, student presentations, and use of software in genetic data analysis.

BIOL 453 Microbial Ecology (3 credits)

Prerequisite: BIOL 353. This course examines the role of the microbial community in the fundamental processes of decomposition and nutrient cycling. We discuss the role of microbes in the breakdown of organic molecules and the release and transformation of mineral elements. Emphasis is placed on the interactions between bacteria, fungi, and the microfauna in decomposition and on the role of interactions between plants and microbes in the maintenance of nutrient cycles. Lectures only.

BIOL 457 Applied Ecology and Conservation Biology (3 credits)

Prerequisite: A minimum of nine credits chosen from BIOL 321, 350, 351, 353, 354. This course applies principles of ecology at the individual, population, community and ecosystem level to identify and solve practical environmental problems. Topics include pollution, climate change, farming, harvesting renewable resources, designing nature reserves and conserving biodiversity. Lectures and tutorials.

BIOL 459 Aquatic Ecology (3 credits)

Prerequisite: BIOL 322 or equivalent, BIOL 353. This course introduces the student to aquatic eco-systems. The first half of the course concentrates on the biological basis of primary and secondary productivity. The second half of the course explores the ecology of fishes at the individual, population, community, and ecosystem levels of analysis. Lectures, field trips, and laboratory.

BIOL 461 Advanced Genetics (3 credits)

Prerequisite: BIOL 367. Through lectures and directed readings in classical and contemporary genetics, students are exposed to research literature and problems in this area. Students probe in greater depth areas of particular interest in order to develop a critical sense and deepen an understanding of past and current work in this field. Lectures only.

BIOL 462 Immunology (3 credits)

Prerequisite: BIOL 266, 364, 367. The role of the immune system in maintenance of body homeostasis will be presented with particular reference to cells and tissues of the immune system, their organization as well as their structural and functional relationships. Topics include: maturation and differentiation of B and T lymphocytes; structure and properties of antibodies; immune responses to antigens; genetic aspects of anti-body synthesis; immunological considerations in AIDS, cancer, and autoimmune diseases. Lectures and seminars.

BIOL 463 Comparative Genomics and Genome Evolution (3 credits)

Prerequisite: BIOL 367. This course covers modern comparative genomics including the nature and scope of the various genome projects, gene discovery and data mining, molecular phylogenies, origin of the eukaryotic cell, evolution of gene regulatory networks, concerted evolution, and haplotype mapping. Lectures and seminars.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 466 Advanced Techniques in Molecular Biology (3 credits)

Prerequisite: BIOL 367, 368. This course covers the theory and practice of modern experimental procedures in molecular biology, including use of restriction enzymes, gene cloning and hybridizations, DNA sequencing, site-directed mutagenesis, RT-PCR, and yeast two-hybrid analysis. Laboratory and tutorials.

BIOL 467 Advanced Cell Biology (3 credits)

Prerequisite: BIOL 266, 364. This course examines selected topics in cell and molecular biology including the growth and division of differentiated and non-differentiated eukaryotic cells. The focus is on the control of cell cycling under normal and abnormal states, such as cancer and viral infection. Lectures only.

NOTE: Students who have received credit for BIOL 464 or this topic under a BIOL 498 number may not take this course for credit.

BIOL 468 Gene Structure (3 credits)

Prerequisite: BIOL 367. This course deals with gene regulation in eukaryotes. Topics covered include transcription, transcript processing, translation, and post-translational processes. Lectures only.

BIOL 470 Microbial Physiology (3 credits)

Prerequisite: BIOL 225, 226; CHEM 271. Comparative biochemistry of prokaryotes — a study of the biochemical activities underlying the life of micro-organisms. A description of the diverse biochemical adaptations used by micro-organisms to obtain energy and building materials from their various environments. Lectures and tutorials.

BIOL 472 Virology (3 credits)

Prerequisite: BIOL 266, 367. The life cycles of viruses are discussed with emphasis on the molecular basis of their entry into, reproduction in, and exit from host cells. These life cycles are related to the pathogenicity of different groups of viruses to provide an understanding of the variety of viral diseases.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 473 Environmental Microbiology (3 credits)

Prerequisite: BIOL 371 or 353. This course surveys microbial diversity and ecophysiology with emphasis on how the activities and interactions of individual organisms influence Earth systems at the ecosystem scale. Topics may include the origin and evolution of the biosphere, microbial interactions and ecosystems, nutrient cycling, molecular and genomic methods in environmental microbiology, microbial associations with plants and animals, and the application of microorganisms to environmental sustainability and bioremediation, human welfare, health, and biotechnology. Lectures only.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 474 Cellular Neuroscience (3 credits)

Prerequisite: BIOL 364. This course familiarizes students with current theory and research in cellular neuroscience through student presentations and discussions of original scientific literature. Topics include neural circuitry, brain genomics, neuronal structure, synaptic plasticity, neurotransmission, and molecular basis of neurological disease. Lectures only.

NOTE: Students who have received credit for this topic under a BIOL 498 number may not take this course for credit.

BIOL 480 Bioinformatics (3 credits)

Prerequisite: 60 credits in a Biology Department honours or specialization program and permission of the Department. This course provides the tools for life scientists to interpret and analyze biological sequence data. It provides a general overview of the growth in availability of genetic information. The course covers the genetic databases; the rapidly increasing number of genome databases, including the human genome database; the sequence homology search engines and search algorithms; software for the identification of structural sequence components; and the determination of evolutionary relationships between sequences. Lectures only.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 481 Structural Genomics (3 credits)

Prerequisite: BIOL 367; 60 credits in a Biology Department honours or specialization program and permission of the Department. This course provides an overview of genome analysis including cloning systems; sequencing strategies; methods of detecting genes and approaches to mapping genomes. It covers the theory and design of the different approaches, and the analysis of genomic data generated from them. Lectures only.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 482 Functional Genomics (3 credits)

Prerequisite: BIOL 367; 60 credits in a Biology Department honours or specialization program and permission of the Department. This course focuses on the functional analysis of expressed genes and their products. Course content includes the construction and screening of normalized cDNA libraries, analysis of expressed sequence tags (ESTs), functional analysis by gene knock-outs, localization of gene products by gene knock-ins, transcription profiling, systematic identification of proteins, and functional analysis of proteins by detection of protein-protein interactions. Lectures only.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 483 Biotechnology and Genomics Laboratory (3 credits)

Prerequisite: BIOL 368; 60 credits in a Biology Department honours or specialization program and permission of the Department. This is a hands-on course on techniques used in biotechnology and genomics. Experiments conducted in this course include separation and mapping of high molecular weight DNA fragments, shotgun sequencing, ESTs sequencing, protein production in bacteria and fungi, functional analysis of protein products, protein arrays, and in vivo detection of protein interactions.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 484 Industrial and Environmental Biotechnology (3 credits)

Prerequisite: BIOL 367; 60 credits in a Biology Department honours or specialization program and permission of the Department. This course provides an in-depth evaluation of current biotechnology tools used in pharmaceutical and forestry industries, and in environmental remediation. New technologies and genomic approaches that can be applied to these processes are also discussed. Lectures only.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 485 Agriculture and Agri-Food Biotechnology (3 credits)

Prerequisite: BIOL 367; 60 credits in a Biology Department honours or specialization program and permission of the Department. This course provides an overview on the use of biotechnology in agriculture and in the agri-food industry. Plant genomics and genetic manipulation of plants are emphasized. Also discussed are biotechnology methods used in reducing agricultural pollutants and converting agricultural surplus to energy. Lectures only.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 486 High-throughput Instrumentation (3 credits)

Prerequisite: 60 credits in a Biology Department honours or specialization program and permission of the Department. This is a hands-on introduction to high-throughput instruments used in biotechnology and genomics. Students are exposed to capillary electrophoresis-based DNA sequencing, microplate-based PCR reactions and purification of PCR products, construction of DNA chips, microarray scanning, and liquid handling robotics. Laboratory.

NOTE: This is primarily a graduate course with a limited number of places for undergraduate students depending upon availability.

BIOL 490 Independent Study (6 credits)

Prerequisite: 60 credits in an honours or specialization program in Biology, and permission of the Department. In this course, the student undertakes a special research project selected in consultation with, and conducted under, the supervision of a faculty member of the Department. The project is intended to develop the student's knowledge of standard scientific procedures, including methods of researching scientific literature, the planning and execution of experimental and analytical procedures, the writing of a formal report, and the presentation of a seminar on the project.

NOTE: Work in this course must be carried out over two consecutive terms: either summer and fall or fall and winter.

BIOL 498 Advanced Topics in Biology (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.050

CHEMISTRY AND BIOCHEMISTRY

Faculty

Chair

JOANNE TURNBULL, PhD A.N.U., Associate Professor

Distinguished Professors Emeriti

MARK DOUGHTY, PhD Lond.

OSWALD S. TEE, PhD E.Anglia

Professors

PETER H. BIRD, PhD Sheff.

JOHN A. CAPOBIANCO, DSc Geneva

ANN M. ENGLISH, PhD McG.

PAUL JOYCE, PhD Dal.

MARCUS F. LAWRENCE, PhD Varennes

GILLES H. PESLHERBE, PhD Wayne State

Associate Professors

LOUIS CUCCIA, PhD McG.

GEORGE DÉNÈS, PhD Rennes

CHRISTINE DEWOLF, PhD Imp.Coll.Sci., Tech.&Med.

YVES GÉLINAS, PhD U.Q.A.M.

HEIDI M. MUCHALL, PhD Essen, Germany

XAVIER OTTENWAELDER, PhD Paris

PETER PAWELEK, PhD McG.

JUSTIN B. POWLOWSKI, PhD Minn.

CAMERON SKINNER, PhD McG.

CHRISTOPHER WILDS, PhD McG.

Assistant Professors

PAT FORGIONE, PhD Ott.

GUILLAUME LAMOUREUX, PhD Montr.

JUNG KWON (JOHN) OH, PhD Tor.

Senior Lecturers

SÉBASTIEN ROBIDOUX, PhD McG.

CERRIE ROGERS, PhD Br.Col.

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Richard J. Renaud Science Complex, Room: SP 201.01

514-848-2424, ext. 3366

Department Objectives

Chemistry is the science that examines the structure of substances and the reactions to produce novel and useful products.

Biochemistry is that part of chemistry which deals with chemical changes occurring in biologically relevant systems; i.e. changes taking place in living cells that are responsible for life processes.

The mission of the Department is fourfold: (i) excellence in teaching and research in the fields of chemistry and biochemistry; (ii) develop and maintain strong undergraduate and graduate teaching programs; (iii) develop and maintain state-of-the-art quality research; and (iv) meet the high standards of the scientific and industrial communities. Our programs have strength in both the applied and the theoretical fields.

Programs

Students are responsible for satisfying their particular degree requirements.

The Department helps students to ensure that they adhere to the academic code of conduct while taking the Department's courses. Attendance at a 45-minute seminar on academic integrity is required of all students registered in any department course. The seminar is offered several times near the beginning of each term.

The Ordre des chimistes du Québec (OCQ) has fully accredited the curricula of i) Honours in Chemistry; ii) Honours in Biochemistry; iii) Specialization in Biochemistry; iv) Specialization in Chemistry. Upon satisfactory completion of any of the above-mentioned programs, a graduate is eligible for membership in the OCQ. A working knowledge of French is required.

Students should note that CHEM 450 has a performance prerequisite and is essential for honours programs. CHEM 419 has a performance prerequisite for the specialization programs. Students who cannot meet these prerequisites will not be able to complete the programs but may complete a major. For more details, students should consult with the Department.

Courses that consist of both laboratories and lectures require that a satisfactory performance be obtained in each of the components for successful completion of the course.

The superscript indicates credit value.

45 Core Component for Chemistry

CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³, 242³, 271³, 312³, 324³, 325³, 333³, 341³, 393³

*For Cegep equivalents these courses must be replaced with an equivalent number of other Organic Chemistry credits.

45 Core Component for Biochemistry

BIOL 261³, 266³, 364³, 368³; CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³, 271³, 324³, 375³, 393³

*For students entering with the Cegep equivalents, these credits must be replaced with an equivalent number of other Organic Chemistry credits (for students in the specialization or honours) or with an equivalent number of credits in Chemistry or related disciplines, as approved by the departmental advisor (for students in the major).

BSc Honours in Chemistry

An Honours in Chemistry program consists of completion of the requirements of the Specialization in Chemistry with the election of CHEM 450⁶ as the senior research project.

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

Students must meet the University regulations concerning the honours degree. Honours students are encouraged to attend departmental seminars.

60 BSc Honours in Chemistry

45 Core component for Chemistry

3 CHEM 495³

6 CHEM 450⁶

6 Additional credits at the 400 level in Chemistry

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits. Students must meet the University regulations concerning the honours degree. Honours students in second year and beyond are encouraged to attend departmental seminars.

72 BSc Honours in Biochemistry

45 Core component for Biochemistry

3 CHEM 477³ or BIOL 466³

18 CHEM 312³, 325³, 335³, 450⁶; BIOL 367³

6 Credits of 400-level courses in the Biochemistry area (CHEM 470³, 471³, 472³, 475³, 478³, 481³, and when appropriate, CHEM 498³); three credits may be replaced by a 400-level course in Chemistry or a 400-level course in Cell and Molecular Biology (BIOL 443³, 461³, 462³, 463³, 467³, 468³, 470³, 472³, and when appropriate, BIOL 498³).

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

Students must meet the University regulations concerning the honours degree. Honours students in second year and beyond are encouraged to attend departmental seminars.

60 BSc Specialization in Chemistry

45 Core component for Chemistry

3 CHEM 495³

6 CHEM 419⁶ or, with departmental permission, CHEM 450⁶

6 Additional credits at the 400 level in Chemistry

NOTE: Students in the specialization program must maintain a GPA of 2.00 or better in the core program, to be evaluated annually.

69 BSc Specialization in Biochemistry

45 Core component for Biochemistry

18 CHEM 312³, 325³, 335³, 477³; BIOL 367³, 466³

- 6 Credits of 400-level courses in the Biochemistry area (CHEM 470³, 471³, 472³, 475³, 478³, 481³, and when appropriate, CHEM 498³); three credits may be replaced by a 400-level course in Chemistry or by a 400-level course in Cell and Molecular Biology (443³, 461³, 462³, 463³, 467³, 468³, 470³, 472³, and when appropriate, BIOL 498³).

NOTE: CHEM 477³ or BIOL 466³ plus a non-biochemistry program elective can be replaced by CHEM 419⁶ or 450⁶.

NOTE: Students in the specialization program must maintain a GPA of 2.00 or better in the core program, to be evaluated annually.

45 BSc Major in Chemistry

- 45 Core component for Chemistry. Substitution of courses from within the Core program by other courses in Chemistry or related disciplines (Mathematics, Physics, Biology, Geology) up to a maximum of nine credits, will be accepted, if previously approved by a departmental program advisor. It is expected that such substitutions will be in accord with the overall program of study being followed by the student.

45 BSc Major in Biochemistry

- 45 Core component for Biochemistry

24 Minor in Chemistry

- 24 Chosen from the Department's offerings, with due regard to prerequisites, such that the courses chosen form a coherent pattern which complements the student's other areas of study. The course pattern chosen must have been previously approved by a departmental program advisor.

Chemistry and Biochemistry Co-operative Program

Director

MARCUS LAWRENCE, Professor

The Chemistry and Biochemistry co-operative program is offered to students who are enrolled in the BSc Honours or Specialization in Chemistry and Biochemistry. Students interested in applying for the Chemistry and Biochemistry co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is identical to that of the regular program, but six study terms are interspersed with four work terms.

Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education, in order to continue their studies in the co-op format.

Liaison between the student, the employers and the Institute for Co-operative Education is provided by the Chemistry and Biochemistry co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

A student may be exempted from one or more of the introductory courses, on the basis of work done at the Cegep level. Where exemptions are given, replacement courses must be chosen with the approval of a department advisor. In the case of certain programs approved by the Ordre des chimistes du Québec, the courses must be replaced with an equivalent number of credits in the same subdiscipline as the exemptions.

Students who have successfully completed the Cegep equivalent for CHEM 205, 206, 221 and/or 222 should verify on their Concordia student record that they have received an exemption. Similarly, students who have successfully completed the equivalent course(s) at another university should verify on their Concordia student record that they have received credit or exemption as appropriate for this course. If not, they should see the departmental advisor.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

CHEM 205 General Chemistry I (3 credits)

Stoichiometry, states of matter, atomic structure, electron structure of atoms, the periodic table, periodic properties, bonding, solids. Lectures and laboratory.

NOTE: This course presumes a good grounding in secondary-school mathematics. Students lacking such grounding or non-science students seeking only an awareness of chemistry are advised to enrol in CHEM 208.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

CHEM 206 General Chemistry II (3 credits)

Prerequisite: CHEM 205. Thermochemistry, solutions and their properties, equilibrium, ionic equilibrium, pH, buffers, kinetics, reaction mechanisms, other selected topics related to biochemistry, biology, and engineering. Lectures and laboratory.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

CHEM 208 Chemistry in Our Lives (3 credits)

This course is designed as an introduction to chemistry for non-science students. It concentrates on establishing the chemical concepts and vocabulary necessary to understand the many roles chemistry plays in people's daily lives. Issues to be presented will range from design and testing of drugs to protection of the ozone layer. The chemical phenomena, methodology, and theory

will be presented as needed to understand the various issues covered in the course. Lectures only.

NOTE: This course is not a prerequisite for any Chemistry course. This course may not be taken for credit by science students.

NOTE: Students who have received credit for CHEZ 208 may not take this course for credit.

CHEM 209 *Discovering Biotechnology* (3 credits)

The course begins with an exploration of the roles of genes and proteins in life processes. It then proceeds to an examination of the basic scientific principles behind manipulation of biological molecules to produce desired changes. Students are introduced to the specific applications of the technology to medicine, agriculture, and the environment. Economic and ethical issues raised by biotechnology are also examined.

NOTE: This course is intended for non-scientists, and may not be taken for credit by Biochemistry or Biology students.

NOTE: Students who have received credit for CHEZ 209 may not take this course for credit.

CHEM 212 *Analytical Chemistry for Biologists* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 205; or equivalents for all prerequisite courses. This course introduces the basic concepts of analytical chemistry to students in the biological sciences. Topics include treatment of analytical data; chemical equilibria and titrations; introduction to spectroscopy; separation science; electrochemistry. Lectures and laboratory.

NOTE: This course may not be taken for credit by students registered in a Chemistry or Biochemistry program.

CHEM 217 *Introductory Analytical Chemistry I* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for all prerequisite courses. Precipitation methods and solubility products; activity, chemical equilibria and titration curves of neutralization and complexation systems; treatment of analytical data. Lectures and laboratory.

CHEM 218 *Introductory Analytical Chemistry II* (3 credits)

Prerequisite: CHEM 217. Chemical equilibria and titration curves of oxidation-reduction, precipitation, and non-aqueous systems; potentiometry and potentiometric titrations; introduction to spectroscopy with emphasis on molecular and atomic absorption spectroscopy, fluorescence spectroscopy. Lectures and laboratory.

CHEM 221 *Introductory Organic Chemistry I* (3 credits)

Prerequisite: CHEM 205, 206. Basic aspects of orbitals and their role in covalent bonding; delocalization of electrons. Alkanes: structure, nomenclature, isomerism, reactions. Introductory stereochemistry: enantiomers, diastereomers, conformers, Fischer and Newman projections, specification of chirality, E/Z isomerism. Conformations of cyclic compounds. Alkylhalides: S_N1; S_N2; E1; E2 reaction mechanisms. Free-radical reactions, organometallic compounds. Chemistry of alkenes, alkynes, and dienes. Lectures and laboratory.

CHEM 222 *Introductory Organic Chemistry II* (3 credits)

Prerequisite: CHEM 206, 221. Introduction to the use of IR and NMR spectroscopy for the identification of simple organic compounds. Benzene and aromatic compounds: aromaticity, electrophilic aromatic substitution, nucleophilic aromatic substitution, substituent effects. Chemistry of aldehydes and ketones: nucleophilic addition, oxidation, reduction, and condensation reactions, tautomerism. Chemistry of carboxylic acids and their derivatives. Chemistry of alcohols, ethers, and related compounds. Amines: basicity, reactions. Lectures and laboratory.

CHEM 234 *Physical Chemistry I: Thermodynamics* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for all prerequisite courses. The properties of real gases; fugacities; first, second and third laws of thermodynamics; the Phase Rule; one- and two-component systems; real solutions, and partial molal properties. Lectures, problem assignments, and assigned readings.

CHEM 235 *Physical Chemistry: Kinetics of Chemical Reactions* (3 credits)

Prerequisite: CHEM 234. Mathematical treatment of experimental results; theories of reaction rates; unimolecular reactions; the steady-state approximation; factors influencing rates of reactions in solution; acid-base catalysis; catalysis by enzymes and the Michaelis-Menten mechanism; free-radical reactions; photochemical reactions; experimental methods and techniques. Lectures and laboratory.

CHEM 241 *Inorganic Chemistry I: Introduction to Periodicity and Valence Theory* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205; or equivalents for all prerequisite courses. The structure of the atom; the periodic table; properties of atoms, covalent bonding treatments including Lewis theory, valence shell electron pair repulsion theory of structure, valence bond and molecular orbital theory. Crystal field theory applied to the structure and properties of transition metal complexes. Bonding theories of metallic materials and semi-conductors. Lectures and laboratory.

CHEM 242 *Inorganic Chemistry II: The Chemistry of the Main Group Elements* (3 credits)

Prerequisite: CHEM 241. A survey of the properties and reactions of: hydrogen; Group 1, lithium to cesium; and Group 2, beryllium to radium; including the theory of ionic bonding and structure. The descriptive chemistry of Group 13, boron to thallium; Group 14, carbon to lead; Group 15, nitrogen to bismuth; Group 16, sulphur to polonium; Group 17, the halogens; and Group 18, the chemistry of the noble gases. Lectures and laboratory.

CHEM 271 *Biochemistry I* (3 credits)

Prerequisite: CHEM 221. An introduction to the essentials of biochemistry: protein structure, enzymology, carbohydrate metabolism, electron transport, integration and regulation of metabolism. Lectures, tutorials and laboratory.

CHEM 298 Selected Topics in Chemistry (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CHEM 312 Intermediate Analytical Chemistry (3 credits)

Prerequisite: CHEM 217; CHEM 218. A continuation of CHEM 217 and 218, with emphasis on instrumental methods of analysis. Emission spectroscopy; X-ray spectroscopy; voltammetry and polarography; amperometric titrations; coulometry and coulometric titrations, conductometry; chromatography with particular emphasis on gas chromatography, and high performance liquid chromatography. Laboratory is taken concurrently and provides experience in analytical techniques described in lectures. Lectures and laboratory.

CHEM 324 Organic Chemistry III: Organic Reactions (3 credits)

Prerequisite: CHEM 221, 222, 234; CHEM 235 previously or concurrently. A mechanistic survey of reactions of major synthetic utility. Determination of reaction mechanisms. Importance of reactive intermediates: carbocations, carbanions, radicals, and carbenes. Lectures and laboratory.

CHEM 325 Organic Chemistry IV: Organic Structure and Stereochemistry (3 credits)

Prerequisite: CHEM 221, 222. Organic structure and stereochemistry including the relationship of stereochemistry to physical properties and chemical reactivity. Determination of organic structure and stereochemistry by chemical and spectroscopic means. Introduction to molecular symmetry. Lectures and laboratory.

CHEM 326 Natural Products (3 credits)

Prerequisite: CHEM 222, 235; CHEM 324 previously or concurrently. The structures, mechanisms of action, and biosynthetic origins of biologically important compounds such as fatty acids, polyketides, terpenes, steroids, alkaloids, and beta-lactam antibiotics are discussed. The role of traditional organic chemistry in the development of modern biochemistry and biotechnology is illustrated with examples from medicine and agriculture. Lectures only.

CHEM 327 Organic Chemistry of Polymers (3 credits)

Prerequisite: CHEM 221, 222, 235. Introduction to the fundamental aspects of polymers and polymerization. Methods of preparation, reaction mechanisms and kinetics of polymer synthesis including condensation polymerization; addition polymerization: free radical, anionic, cationic; heterogeneous (Ziegler-Natta) and homogeneous (metallocenes) coordination polymerization. Polymer characterization and uses. Lectures and problem sessions.

CHEM 333 Introduction to Quantum Theory (3 credits)

Prerequisite: CHEM 234, 241. The course introduces students to the concept of quantum mechanics and the electronic structure of atoms and molecules. Topics include the origins and postulates of quantum theory, the Schrödinger equation and applications to simple systems such as the harmonic oscillator, rigid rotor and the hydrogen atom. The course looks at the quantum mechanical treatment of the chemical bond and provides an introduction to spectroscopy. Lectures only.

CHEM 334 Physical Chemistry: Laboratory (3 credits)

Prerequisite: CHEM 234, 235. A series of experiments illustrating modern techniques for the examination of solids, liquids, and gases. Some experiments may include the automated collection and computerized analysis of data. Laboratory only.

CHEM 335 Biophysical Chemistry (3 credits)

Prerequisite: CHEM 222, 234, 235, 271. This course examines the physical basis for the structures of biomolecules (energetics of protein folding), the organization and structures of bio-membranes and biologically relevant systems, and intermolecular interactions (e.g. ligand binding). Both fundamental theory and techniques used to characterize these physical properties are covered. Lectures and laboratory.

CHEM 341 Inorganic Chemistry III: The Transition Metals (3 credits)

Prerequisite: CHEM 217, 218, 241, 242. Theories of bonding in transition metal complexes, including ligand field theory, applied to structure, physical properties, and reactivity of transition metal complexes: organometallic chemistry and catalysis. Metals in biological systems. Lectures and laboratory.

CHEM 375 Biochemistry II (3 credits)

Prerequisite: CHEM 221, 222, 271. A survey of selected pathways in intermediary metabolism, including their regulation and physiological significance, lipid, amino acid and nucleoside metabolism, cholesterol biosynthesis, urea cycle and the biochemistry of protein synthesis. Lectures and laboratory.

CHEM 393 Spectroscopy and Structure of Organic Compounds (3 credits)

Prerequisite: CHEM 221, 222. This course examines the identification of organic compounds using methods based on electronic, vibrational, nuclear magnetic resonance and mass spectrometries. In each case, there is an introduction to the principles of the spectroscopy and a discussion of how its spectra vary with structure. Particular emphasis is placed upon the UV-visible spectra of conjugated molecules; the identification of functional groups by IR spectroscopy; the use of NMR spectroscopy, including 2D methods, for the determination of stereochemistry; and the use of mass spectrometry for ascertaining molecular constitution. The use of computer simulation and information retrieval for structure determination is introduced. Lectures and laboratory.

CHEM 398 Selected Topics in Chemistry (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CHEM 415 Analytical Separations (3 credits)

Prerequisite: CHEM 218, 312. High performance liquid separations on an analytical (non-preparative) scale are surveyed. Fundamental separation mechanisms and application of the techniques are discussed. Emphasis is placed on separations of biologically relevant analytes which include peptides, proteins and nucleic acids. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 419 Independent Study and Practicum (6 credits)

Prerequisite: Must have completed the 45-credit Core program, or equivalent, with a GPA of 2.00 (C) or better. In collaboration with and under the direction of a member of Faculty, the student carries out independent study and practical work on a problem chosen from the student's area of concentration. The student presents his or her work to the Department in the form of a scientific poster and submits a written report to the supervisor.

NOTE: During the academic session before the one in which this project is to be undertaken, the student must have obtained the consent of the Department, by consultation with the CHEM 419 coordinator, and must have also been accepted by a faculty supervisor. Independent study and practical work.

CHEM 421 Physical Organic Chemistry (3 credits)

Prerequisite: CHEM 222, 235; CHEM 324 or 325. Determination of organic reaction mechanisms using kinetics, activation parameters, acid-base catalysis, Bronsted catalysis law, solvent effects, medium effects, isotope effects, substituent effects, and linear free energy relationships. Lectures only.

CHEM 424 Organic Synthesis (3 credits)

Prerequisite: CHEM 222, 235, 324. This course is concerned with synthetic strategy and design. It provides an introduction to advanced synthetic methods and reagents, involving heteroatoms such as sulphur, phosphorus, tin and selenium, as well as an overview of the uses of protecting groups in organic chemistry. The concept of retrosynthesis and a few asymmetric reactions are discussed using syntheses of natural products from the literature as examples.

CHEM 425 Nucleic Acid Chemistry (3 credits)

Prerequisite: CHEM 221, 222, 271. This course introduces students to various topics in nucleic acid chemistry. The topics include nomenclature, structure and function of RNA and DNA; techniques and methods to investigate nucleic acid structure; DNA damage and repair; interaction of small molecules and proteins with nucleic acid; oligonucleotide-based therapeutics (antisense, antigene, RNAi); synthesis of purines, pyrimidines and nucleosides; and solid-phase oligonucleotide synthesis. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 426 Reactive Intermediates (3 credits)

Prerequisite: CHEM 324, 325. This course offers an introduction to reactive intermediates with an emphasis on structure and stability as found in modern (physical) organic chemistry. While the focus is on radicals and carbenes, carbocations are discussed near the end of the term. The material covered is relevant to chemistry and biochemistry. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 427 Supramolecular Chemistry (3 credits)

Prerequisite: CHEM 324 or 325; CHEM 335; or permission of the Department. Supramolecular chemistry is the chemistry of the intermolecular bond, i.e. "chemistry beyond the molecule." This course reviews some fundamental aspects of synthetic and biological supramolecular chemistry and nanotechnology. Topics covered may include supramolecular forces, ion binding and ion channels, molecular recognition, self-assembly (meso-scale and molecular-scale), organometallic supramolecular chemistry, dynamic combinatorial chemistry (DCC), and foldamers. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 431 Computational Chemistry for Chemists and Biochemists (3 credits)

Prerequisite: CHEM 234, 241, 333 or permission of the Department. This course presents the concepts, tools, and techniques of modern computational chemistry, and provides a very broad overview of the various fields of application across chemistry and biochemistry. The course is divided into two parts: 1) *Molecular structure*, which covers molecular mechanics and elementary electronic structure theory of atoms and molecules; and 2) *Chemical reactivity*, which covers applications of quantum chemistry and molecular dynamics techniques to studies of chemical reactions. The applications discussed include organic molecules and their reactions, peptides and proteins, drug design, DNA, polymers, inorganics, and materials. The course includes a practical component where students acquire hands-on experience with commonly used computational chemistry computer software. Lectures and laboratory.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 435 Interfacial Phenomena (3 credits)

Prerequisite: CHEM 234, 235. This course examines the physical chemistry of interfaces including surface and interfacial tensions, the absorption of surface active substances/surface excess properties, and surfactant self-assembly. Topics covered may include Gibbs and Langmuir monolayers, micelle formation, emulsions, foams, surfactant liquid crystals, layer-by-layer

polymer self-assembly, and biological membranes. Techniques for characterization and applications (biological and industrial) of these systems are addressed. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 436 Molecular Modelling of Proteins (3 credits)

Prerequisite: CHEM 234, 271. This course offers a hands-on introduction to the computer tools used to predict the structure of a protein from its amino acid sequence, and to gain insight into its function. Students learn modelling techniques such as sequence alignment, homology modelling, computer visualization, molecular dynamics, and molecular docking. Computer laboratory with pre-lab lectures.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 443 Organometallic Chemistry (3 credits)

Prerequisite: CHEM 324, 341, or equivalent. This course covers the structure and properties of organometallic compounds, their main reactions and their application in catalysis and organic chemistry. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 445 Industrial Catalysis (3 credits)

Prerequisite: CHEM 234, 235. Basic and recent concepts in catalysis are described with particular emphasis on heterogenous catalysis. The technical, economic and environmental aspects of industrial catalysis are covered. The processes to be studied are chosen from the petroleum industry, the natural gas and coal processing industry, and the production of thermoplastics and synthetic fibres. The course ends with a rapid survey of problems associated with the treatment of industrial pollutants and with catalytic converters. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 450 Research Project and Thesis (6 credits)

Prerequisite: 60 credits including the 45-credit Core program, or equivalent and enrolment in Honours in Chemistry; or Biochemistry, with a program GPA of 3.3 or better; or written permission of the Department. The student works on a research project in the student's area of concentration, selected in consultation with and conducted under the supervision of a faculty member of the Department. The student writes a thesis on the results and defends it before a departmental committee.

NOTE: During the academic session before the one in which this project is to be undertaken, the student must have obtained the consent of the Department, by consultation with the CHEM 450 coordinator, and must have also been accepted by a faculty supervisor.

CHEM 451 Nanochemistry (3 credits)

Prerequisite: CHEM 217, 218, 221, 222, 234, 235, 241. This modular course covers the areas of production, characterization and applications of nanoscale structures and materials. Each module is taught by a different professor as well as guest lecturers. Topics may include (but are not limited to) size dependent properties, synthesis of organic and inorganic nanostructures, self-assembled structures, chemical patterning and functional nanopatterns, biomaterials. Nanometer scale fabrication techniques such as lithographic methods, nano-stamping and patterned self-assembly are discussed. Modern analysis techniques such as atomic force microscopy and electron microscopy, which are used to map and measure at the single molecule level, are introduced. Applications such as photonics, optical properties, biodetection and biosensors, micro- and nano-fluidics, nanoelectronics and nanomachines are presented. The course includes a term project carried out using the nanoscience facilities held in the Department research labs.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 458 Aquatic Biogeochemistry (3 credits)

Prerequisite: CHEM 217, 218, 312. The major aim of this course is to present a quantitative treatment of the variables that determine the composition of natural waters. Chemical equilibrium is the central theme of the course, but consideration is also given to kinetics, steady-state and dynamic models. Related themes include global chemical cycles, air and water pollution, as well as current research topics in water chemistry and chemical oceanography. Lectures only.

NOTE: Students who have received credit for CHEM 418 or for this topic under a CHEM 498 number may not take this course for credit.

CHEM 470 Environmental Biochemistry (3 credits)

Prerequisite: CHEM 271, 375; BIOL 367; or permission of the Department. This course examines the biochemical effects of environmental stresses on organisms, and adaptations that allow organisms to face these stresses. Emphasis is placed on biochemical responses to toxic compounds such as aromatics, halogenated aliphatics, drugs, and heavy metals. Other topics may include adaptations to stresses such as temperature extremes, pathogens, and ionizing radiation. Applications to related biotechnological processes are also considered.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 471 Enzyme Kinetics and Mechanism (3 credits)

Prerequisite: CHEM 271, 375. Steady-state kinetics, including the use of initial velocity studies and product inhibition to establish a kinetic mechanism; nonsteady-state kinetics, isotope effects, energy of activation, detailed mechanisms of selected enzymes. Lectures only.

CHEM 472 *Chemical Toxicology* (3 credits)

Prerequisite: CHEM 222, 271. Introduction to the general principles of toxicology with emphasis on the toxic effects of chemicals in humans. Dose-response relationship, types and routes of exposure, absorption and disposition of toxic substances, toxicokinetics, types of toxic response, and factors affecting toxic response. Toxicity testing, risk assessment, and interpretation of toxicological data. Lectures only.

CHEM 473 *Neurochemistry* (3 credits)

Prerequisite: BIOL 364; CHEM 271. Students examine the bioelectrical properties of neurons and how they may undergo marked changes — changes that are necessary for the cells to carry out their functions; neuromodulation, which is the ability of neurons to alter their electrical properties in response to intracellular biochemical changes caused by neurotransmitters or hormones; two changes in animal behaviour that arise from neuromodulation and synaptic plasticity — learning and memory; and drug addiction. The material covered includes cellular neurobiology, structure and function of various families of membrane receptor and ion channel proteins, communication between neurons and signalling in the brain. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 475 *Protein Engineering and Design* (3 credits)

Prerequisite: CHEM 271, 375. This course examines the principles behind protein design, how techniques of protein engineering are used, and the methods used to assess protein properties. Examples include studies of protein stability, structure-function relationships, and applications to drug design. Lectures only.

CHEM 476 *Structure and Function of Biomembranes* (3 credits)

Prerequisite: BIOL 266; CHEM 375. This course discusses what is known about how the membranes of biological organisms are assembled and the roles that these membranes play in a number of important processes. Emphasis is placed on the transport of proteins to and through biomembranes and the roles that membranes play in metabolite and ion transport. Where applicable, the significance of these processes is illustrated by examining the roles of membranes in health and disease. Lectures only.

NOTE: Students who have received credit for this topic under a CHEM 498 number may not take this course for credit.

CHEM 477 *Advanced Laboratory in Biochemistry* (3 credits)

Prerequisite: CHEM 271, 375. Theory and practice of techniques in enzymology and protein chemistry, including steady-state and stopped-flow enzyme kinetics, ligand binding, immunological techniques, proteomics, computer modelling, and chemical modification of proteins. Tutorials and laboratory.

CHEM 478 *Hormone Biochemistry* (3 credits)

Prerequisite: CHEM 271, 375. This course deals with an in-depth study of the vertebrate hormones and involves a study of the precise chemical structure and properties of each hormone, its biosynthesis and mode of secretion from the cell. The circulating form of the hormone is examined, as well as the nature of the hormone receptor. The cellular mechanism of action and the relationship of the hormone's action to the intact animal are investigated. Lectures only.

CHEM 481 *Bioinorganic Chemistry* (3 credits)

Prerequisite: CHEM 271, 241. Role of metals in biochemical systems. Essential trace elements, zinc enzymes, oxygen transport and storage, metalloproteins and biological electron transfer, structure-function relationships in heme enzymes, nitrogen fixation; model compounds for metallo-proteins and metalloenzymes. Lectures only.

CHEM 493 *Magnetic Resonance Spectroscopy* (3 credits)

Prerequisite: CHEM 222, 393. This course is designed to provide the background in magnetic resonance theory necessary to understand modern high-resolution NMR experiments and instrumentation. The basic theory in the introductory section also applies to electron spin resonance (ESR). Relaxation and through-bond and through-space interactions, and experiments to investigate them are considered. Spin manipulations and behaviour in multiple-pulse, Fourier transform NMR techniques used for common spectral editing and two-dimensional experiments are discussed. Lectures only.

CHEM 494 *Mass Spectrometry* (3 credits)

Prerequisite: CHEM 218, 222, 271. Production and interpretation of mass spectra. Topics include ionization methods (electron impact, chemical ionization and fast-atom bombardment); interpretation of mass spectra; introduction to quantitative analysis by mass spectrometry. Lectures only.

CHEM 495 *Modern Spectroscopy* (3 credits)

Prerequisite: CHEM 234, 241, 333. This course demonstrates how quantum theory applies to the measurement of absorption and emission spectra of atoms and molecules. The course examines rotational, vibrational, and electronic spectroscopy. Photoelectron and related spectroscopies. Lasers and laser spectroscopy. Lectures only.

CHEM 498 *Advanced Topics in Chemistry* (3 credits)**CHEM 499 *Advanced Topics in Chemistry*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.060

CLASSICS, MODERN LANGUAGES AND LINGUISTICS

Faculty

Chair

MARK HALE, PhD Harv., Professor (*Linguistics*)

Professors

CHARLES REISS, PhD Harv. (*Linguistics*)
LADY ROJAS-BENAVENTE, PhD Laval (*Spanish*)
LIONEL J. SANDERS, PhD McM. (*Classics*)
ANNETTE TEFFETELLER, PhD McG. (*Linguistics*)
CATHERINE VALLEJO, PhD Montr. (*Spanish*)

Associate Professors

M. CATHERINE BOLTON, PhD McM. (*Classics*)
DARIO BRANCATO, PhD Tor. (*Italian*)
ANTHONY COSTANZO, MA Wash. (*Italian*)
JANE E. FRANCIS, PhD Bryn Mawr (*Classics*)
JOSÉ ANTONIO GIMÉNEZ-MICÓ, PhD Montr. (*Spanish*)
SEAN GURD, PhD Tor. (*Classics*)
DANIELA ISAC, PhD Buch. (*Linguistics*)
MADELYN J. KISLOCK, PhD Harv. (*Linguistics*)
BRADLEY J. NELSON, PhD Minn. (*Spanish*)
M. GORETTI RAMÍREZ, PhD Brown (*Spanish*)
FILIPPO SALVATORE, PhD Harv. (*Italian*)
ROBERTO VIERECK SALINAS, PhD Madrid (*Spanish*)
BRUNO VILLATA, PhD Laval (*Italian*)

Assistant Professors

ALAN C. BALE, PhD McG. (*Linguistics*)
MIRIAM DÍAZ, PhD Ariz. (*Spanish*)

Senior Lecturers

LIAN DUAN, PhD Hunan (*Chinese*)
LUIS OCHOA, MA McG., MA Salamanca (*Spanish*)

Lecturers

ELENA BENELLI, PhD Montr. (*Italian*)
RASHA EL HAWARI, PhD Alexandria (*Arabic*)

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
Hall Building, Room: H 663
514-848-2424, ext. 2310

Department Objectives

Classics programs have two related aims: first, to provide a solid background to the cultures of ancient Greece and Rome through written documents, including historical and literary sources, and archaeological evidence; and second, to train students to read and interpret texts in ancient Greek and Latin.

The Modern Language programs provide a stimulating intellectual milieu for learning and strengthening skills in critical thinking, language proficiency, intercultural understanding, literary studies and contemporary approaches to modern languages and cultures, particularly Spanish, Italian, German, Modern Arabic, and Modern Chinese. Linguistics is the scientific study of the human language faculty. Teaching and research in the Linguistics programs focus on two areas: linguistics as a branch of cognitive science, encompassing fields such as syntax, phonology and language acquisition; and the nature of language change, with particular emphasis on the Indo-European language family.

Programs

The Department of Classics, Modern Languages and Linguistics offers undergraduate programs leading to the BA degree in Classics, Italian, Spanish, and Linguistics. In addition, it offers Minor and Certificate programs in German, Modern Arabic Language and Culture, and Modern Chinese Language and Culture.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

All these programs can normally be completed within the regular three-year university sessions.

Classics

60 BA Honours in Classics

36 Honours Core consisting of:

- 9 Chosen from CLAS 211³, 212³, 320³, 330³
- 6 CLAS 280⁶ or 290⁶
- 6 CLAS 383³ and 384³, or 391³ and 392³
- 3 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
- 3 CLAS 261³ or 262³
- 3 Chosen from CLAS 221³, 222³, 263³, 266³, 267³, 353³, 364³, 365³, 369³
- 6 CLAS 450³, 451³

Concentration in Classical Languages and Literature

36 Honours Core (see above)

- 6 CLAS 280⁶ or 290⁶
- 6 CLAS 383³ and 384³, or 391³ and 392³
- 6 CLAS 410³ and 411³, or 420³ and 421³
- 6 Linguistics courses chosen in consultation with the Department

Concentration in Classical Civilization

36 Honours Core (see above)

- 9 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
- 6 Chosen from CLAS 263³, 266³, 364³, 365³, 369³, 370³
- 3 Chosen from CLAS 221³, 222³, 261³, 262³, 353³
- 6 Credits in either Classics or another subject chosen in consultation with the Department

42 BA Major in Classics

18 Major Core consisting of:

- 9 Chosen from CLAS 211³, 212³, 320³, 330³
- 3 Chosen from CLAS 221³, 222³, 230³, 240³, 242³, 341³, 343³
- 3 CLAS 261³ or 262³
- 3 Chosen from CLAS 263³, 266³, 267³, 353³, 364³, 365³, 369³

Concentration in Classical Languages and Literature

18 Major Core (see above)

- 6 CLAS 280⁶ or 290⁶
- 6 CLAS 383³ and 384³, or 391³ and 392³
- 6 CLAS 410³ and 411³, or 420³ and 421³
- 6 CLAS 280⁶ or 290⁶, or other Linguistics courses chosen in consultation with the Department

Concentration in Classical Civilization

18 Major Core (see above)

- 9 Chosen from CLAS 221³, 222³, 230³, 240³, 242³, 341³, 343³
- 6 Chosen from CLAS 263³, 266³, 267³, 364³, 365³, 369³, 370³
- 3 Chosen from CLAS 261³, 262³, 353³
- 6 Credits in either Classics or another subject chosen in consultation with the Department

24 Minor in Classical Languages and Literature

12 CLAS 211³, 212³, 320³, 330³

12 Chosen from CLAS 280⁶, 290⁶, 383³, 384³, 391³, 392³

24 Minor in Classical Civilization

6 Chosen from CLAS 211³, 212³, 320³, 330³

6 Chosen from CLAS 230³, 240³, 242³, 341³, 343³

12 Chosen from CLAS 221³, 222³, 261³, 262³, 263³, 266³, 267³, 280⁶, 290⁶, 353³

- 24 Minor in Classical Archaeology**
- 3 CLAS 266³
 - 6 Chosen from CLAS 230³, 240³, 242³, 341³, 343³
 - 9 Chosen from CLAS 263³, 267³, 364³, 365³, 369³, 370³
 - 6 Credits in either Classics or another subject chosen in consultation with the Department

Arabic (Modern Standard)

- 30 Minor in Modern Arabic Language and Culture**
- 18 MARA 205⁶, 206⁶, 240⁶
 - 3 MARA 365³
 - 9 Chosen from MARA 301³, 308³, 310³, 398³; FLIT 362³; HIST 242³; POLI 391³, 395³; RELI 224³, 316³, 318³, 319³
- 30 Certificate in Modern Arabic Language and Culture**
- 18 MARA 205⁶, 206⁶, 240⁶
 - 3 MARA 365³
 - 9 Chosen from MARA 301³, 308³, 310³, 398³; FLIT 362³; HIST 242³; POLI 391³, 395³; RELI 224³, 316³, 318³, 319³

Chinese (Mandarin)

- 30 Minor in Modern Chinese Language and Culture**
- 21 MCHI 205⁹, 206⁶, 240⁶
 - 9 Chosen from MCHI 250³, 306³, 308³, 310³, 311³, 365³, 366³, 398³, 399⁶; HIST 262³, 367³; POLI 335³; RELI 360³
- 30 Certificate in Modern Chinese Language and Culture**
- 21 MCHI 205⁹, 206⁶, 240⁶
 - 9 Chosen from MCHI 250³, 306³, 308³, 310³, 311³, 365³, 366³, 398³, 399⁶; HIST 262³, 367³; POLI 335³; RELI 360³

German

- 60 BA Honours in German***
- 12 GERM 240⁶, or 241³ and 242³; 256³, 257³
 - 24 GERM 271³, 301³, 302³, 306³, 307³, 308³, 365³, 366³
 - 21 Credits chosen from 400-level courses in German, of which at least six credits must be from GERM 405³, 406³, 461³, 462³
 - 3 GERM 490³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

**Admission suspended for 2013-14.*

- 42 BA Major in German***
- 12 GERM 240⁶, or 241³ and 242³; 256³, 257³
 - 15 Credits chosen from GERM 271³, 301³, 302³, 306³, 307³, 308³, 365³, 366³
 - 15 Credits chosen from 400-level courses in German, of which at least six credits must be from GERM 405³, 406³, 461³, 462³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

**Admission suspended for 2013-14.*

- 30 Minor in German**
- 3 GERM 230³ or 231³
 - 18 Credits chosen from GERM 200⁶, or 201³ and 202³; 240⁶, or 241³ and 242³; 270³; 301³, 308³, 310³ or 311³; 361³ or 362³; 398³
 - 9 Credits chosen from GERM 302³; 306³; 307³; 308³, 310³ or 311³; 361³ or 362³; 398³; 410³; 420³; 498³; of which at least three credits must be at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Italian

- 60 BA Honours in Italian**
- 6 ITAL 240⁶, or ITAL 241³ and 242³
 - 12 Credits chosen from ITAL 301³, 302³, 310³, 311³, 365³, 366³
 - 39 Credits in an approved sequence chosen from courses higher than ITAL 302
 - 3 ITAL 490³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 42 BA Major in Italian**
- 6 ITAL 240⁶, or ITAL 241³ and 242³
 - 12 Credits chosen from ITAL 301³, 302³, 310³, 311³, 365³, 366³
 - 24 Credits in an approved sequence chosen from courses higher than ITAL 302

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 30 Minor in Italian**
- 30 Credits in Italian

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Spanish

- 60 BA Honours in Spanish (Literature and Society)**
15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
15 Credits chosen from SPAN 310³, 311³, 320³, 321³, 362³, 363³, 365³
12 Credits chosen from SPAN 406 to 472, excluding SPAN 464 and 465
6 Credits chosen from courses higher than SPAN 308, excluding SPAN 464, 465, and 474
6 SPAN elective credits at the 400 level, excluding SPAN 464, 465, and 474
6 SPAN 490³, 491³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 60 BA Specialization in Spanish (Expression and Culture)**
15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
15 Credits chosen from SPAN 310³, 311³, 320³, 321³, 362³, 363³, 365³
9 Credits chosen from Group B (SPAN 446 to 474)
12 Credits chosen from courses higher than SPAN 303
6 SPAN elective credits at the 400 level
3 SPAN 495³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 42 BA Major in Spanish**
Option A: Literature and Society
15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
9 Credits chosen from SPAN 310³, 311³, 320³, 321³
6 Credits chosen from SPAN 362³, 363³, 365³
9 Credits chosen from SPAN 406 to 472, excluding 464 and 465
3 SPAN elective credits at the 400 level excluding SPAN 464, 465, and 474

Option B: Expression and Culture

- 15 SPAN 240⁶ (or 241³ and 242³), 301³, 302³, 303³
6 Credits chosen from SPAN 310³, 311³, 320³, 321³
9 Credits chosen from SPAN 306³, 307³, 362³, 363³, 365³
9 Credits chosen from Group B (SPAN 446 to 474)
3 SPAN elective credits at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 30 Minor in Spanish**
18 SPAN 200⁶ (or 201³ and 202³), 240⁶ (or 241³ and 242³), 301³, 303³
12 Credits chosen from all other courses above SPAN 301, of which three credits must be at the 400 level

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

- 33 Minor in Spanish Translation**
18 SPAN 200⁶ (or 201³ and 202³), 240⁶ (or 241³ and 242³), 301³, 303³
12 SPAN 306³, 307³, 473³, 474³
3 Credits chosen from SPAN 362³, 363³, 365³

NOTE: Upon consultation with the Department, advanced students may not be required to take any courses at the 200 level.

Linguistics

- 21 Core Program**
21 LING 200³, 222³, 315³, 336³, 372³, 373³, 420³

- 60 BA Honours in Linguistics**
21 Core Program
3 Credits chosen from LING 320³, 353³, 380³
9 LING 421³, 425³, 475³
9 Credits chosen from LING 415³, 429³, 436³, 437³, 473³
3 Credits chosen from LING 330³, 446³, 447³, 456³, 457³, 461³
12 Additional LING credits (in consultation with the Department, related courses in other disciplines may be counted as satisfying this part of the requirement)
3 LING 490³

- 42 BA Major in Linguistics**
21 Core Program
3 Credits chosen from LING 320³, 353³, 380³
6 Credits chosen from LING 415³, 421³, 425³, 429³, 473³, 475³

- 6 Credits chosen from LING 330³, 436³, 437³, 446³, 447³, 456³, 457³, 461³
6 Additional LING credits (in consultation with the Department, related courses in other disciplines may be counted as satisfying this part of the requirement)

24 Minor in Linguistics
6 LING 200³, LING 222³
18 Credits in Linguistics

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PROGRAM COURSES:

Classics

CLAS 211 Greek Literature (3 credits)

An introduction to the literature of ancient Greece, this course focuses on Homer and the epic cycle, the Homeric hymns, Hesiod and lyric poetry, tragedy and comedy. The texts are read in English translation.

CLAS 212 Roman Literature (3 credits)

An introduction to the major authors of the Roman world, this course focuses on Catullus, Virgil, Horace, Ovid and Lucretius; works of the dramatists, orators and satirists may also be included. The texts are read in English translation.

CLAS 221 Life and Times in Ancient Greece (3 credits)

This course explores the lifestyles, customs, and daily practices of the people of Ancient Greece through archaeological, historical, and literary sources.

NOTE: Students who have received credit for this topic under a CLAS 298 number may not take this course for credit.

CLAS 222 Life and Times in Ancient Rome (3 credits)

This course explores the lifestyles, customs, and daily practices of the people of Ancient Rome through archaeological, historical, and literary sources.

NOTE: Students who have received credit for this topic under a CLAS 298 number may not take this course for credit.

CLAS 230 (also listed as HIST 219) Ancient Near East (3 credits)

A political, social, economic, and intellectual history of the ancient Near East, this course surveys the period from the origins of civilization in the middle of the fourth millennium to Alexander the Great's conquest of the Persian Empire in the latter part of the fourth century BC.

NOTE: Students who have received credit for HIST 219 may not take this course for credit.

CLAS 240 (also listed as HIST 223) Greek History from the Bronze Age to Alexander (3 credits)

This course offers a political, social, economic, and cultural history of Greece from the Minoan-Mycenaean period in the second millennium to the end of Classical Greek civilization in the fourth century BC, with special emphasis placed upon Athens.

NOTE: Students who have received credit for HIST 223 may not take this course for credit.

CLAS 242 (also listed as HIST 225) History of the Roman Republic (3 credits)

This course offers a political, social, economic, and cultural history of Rome from the city's origins to the establishment of the Roman Empire under the Emperor Augustus.

NOTE: Students who have received credit for HIST 225 may not take this course for credit.

CLAS 261 Greek Mythology (3 credits)

A survey of the myths of ancient Greece and their characters — deities, heroes, mortals and monsters, this course examines the significance of the myths within their own time and their relevance for the modern world. Both literary and visual sources are used.

CLAS 262 Mythology of the Ancient Mediterranean (3 credits)

An examination of the common mythological themes of the ancient Mediterranean, this course focuses on the events, the characters, and the significance of recurrent elements as found in the myths of Mesopotamia, Egypt, Greece, and Rome.

CLAS 263 Archaeology of Archaic Greece (3 credits)

This course explores the cultural developments of the period (circa 650 to 450 BCE) through its material remains.

NOTE: Students who have received credit for this topic under a CLAS 298 number may not take this course for credit.

CLAS 266 An Introduction to Classical Archaeology (3 credits)

This course provides a general overview of the material remains of ancient Greece from the Bronze Age to the Hellenistic period. It addresses the function, context, dating, and meaning of artifacts, as well as methods of analysis.

NOTE: Students who have received credit for CLAS 266 may not take this course for credit.

CLAS 267 *The Archaeology of the Greek Bronze Age* (3 credits)

The Bronze Age in Mainland Greece, Crete, and the Greek Islands.

CLAS 280 *Introductory Ancient Greek* (6 credits)

The fundamentals of Greek grammar are presented in a course designed to enable the student to read the ancient authors as soon as possible.

CLAS 290 *Introductory Latin* (6 credits)

The fundamentals of Latin grammar are presented in a course designed to enable the student to read the principal Roman authors as soon as possible.

CLAS 298 *Selected Topics in Classics* (3 credits)

CLAS 299 *Selected Topics in Classics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CLAS 320 *The Heroic Epics of Greece and Rome* (3 credits)

Homer's *Iliad* and *Odyssey* and Virgil's *Aeneid* are considered in depth, with some attention given to other examples of epic, such as the *Argonautica* of Apollonius of Rhodes and Lucan's *Pharsalia*. Topics include epic as a genre, the nature of oral poetry, ethical values presented and the epic tradition and innovation. The texts are read in English translation.

CLAS 330 *Greek Drama* (3 credits)

Designed as an introduction to Greek drama from the origins of tragedy in the sixth century to New Comedy, this course consists of a detailed study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander. Also considered are Aristotle's *Poetics* and production techniques of the Greek theatre. The texts are read in English translation.

CLAS 341 (also listed as HIST 323)

Greek History from Alexander to the Roman Conquest (3 credits)

A political, social, economic, and cultural history of the Greek world from Alexander the Great to the Roman conquest of Greece in 146 BCE.

NOTE: Students who have received credit for CLAS 241 or HIST 224 or HIST 323 may not take this course for credit.

CLAS 343 (also listed as HIST 327)

History of the Roman Empire (3 credits)

This course offers a political, social, economic, and cultural history of the Roman Empire from Augustus to the end of the Roman Empire in the West.

NOTE: Students who have received credit for CLAS 243 or HIST 226 or HIST 327 may not take this course for credit.

CLAS 353 *Representations of Women in Ancient Greece and Rome* (3 credits)

The ancient Greek and Roman representations of women are examined within their historical and cultural contexts. Focus is placed on the changing social roles, status and images of women in antiquity. Both visual and literary sources are used.

CLAS 364 *Classical Greek Art and Archaeology* (3 credits)

An exploration of the monuments and artifacts of Classical Greece, ca. 680 to 380 BC, this course concentrates on architecture, sculpture, vase painting, artistic production and methods of interpretation.

CLAS 365 *Art and Archaeology of the Hellenistic Age* (3 credits)

An investigation of the art and archaeology of the Hellenistic age from the death of Alexander in 323 to the mid-first century BC, this course examines architecture, sculpture, mosaics, wall painting and the minor arts; emphasis is on the Roman influence on Greek art of the period.

CLAS 369 *Roman Art and Archaeology* (3 credits)

An introduction to the artifacts and monuments of Roman civilization from the sixth century BC through the Empire (third century AD), this course examines artistic styles, techniques, function, iconography and interpretation.

CLAS 370 *Practicum in Archaeology* (3 credits)

Prerequisite: Permission of the Department. This course is designed to give the student on-site fieldwork experience in either survey or excavation work. At least one month in the field is required.

CLAS 383 *Intermediate Ancient Greek I* (3 credits)

Prerequisite: CLAS 280 or equivalent. This course provides a review of Ancient Greek grammar and syntax and deals with additional features not covered in the introductory course. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for CLAS 381 or 382, or for this topic under a CLAS 398 number, may not take this course for credit.

CLAS 384 *Intermediate Ancient Greek II* (3 credits)

Prerequisite: CLAS 383 or equivalent. This course completes the review of grammar and provides additional details not covered in Intermediate Ancient Greek I. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for CLAS 381 or 382, or for this topic under a CLAS 398 number, may not take this course for credit.

CLAS 391 *Reading Latin Prose* (3 credits)

Prerequisite: CLAS 290 or equivalent. Prose works of authors such as Caesar, Cornelius Nepos, Cicero and Pliny are read in the original Latin text. Attention is given to further study of grammatical and syntactical structures of the language.

NOTE: Students who have received credit for CLAS 390 may not take this course for credit.

CLAS 392 *Reading Latin Poetry* (3 credits)

Prerequisite: CLAS 290 or equivalent. Selected works of the Roman poets are read in the original Latin text, with emphasis on Catullus, Ovid, Martial and Petronius. Attention is given to further study of grammatical and syntactical structures of the language.

NOTE: Students who have received credit for CLAS 390 may not take this course for credit.

CLAS 398 *Selected Topics in Classics* (3 credits)**CLAS 399 *Selected Topics in Classics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

CLAS 410 *Studies in Greek Literature: Prose* (3 credits)

Prerequisite: CLAS 383 or equivalent; CLAS 384 or equivalent previously or concurrently. Works of the Greek historians, philosophers and orators are studied in depth. While authors read vary from year to year, the primary focus is on Herodotus, Thucydides, Plato or Demosthenes.

CLAS 411 *Studies in Greek Literature: Poetry* (3 credits)

Prerequisite: CLAS 383 or equivalent; CLAS 384 or equivalent previously or concurrently. Works of Greek epic, lyric or dramatic poetry are studied in depth. While authors read vary from year to year, the primary focus is on Homer, Aeschylus, Sophocles, Euripides or Pindar.

CLAS 420 *Advanced Latin Prose* (3 credits)

Prerequisite: CLAS 391 and 392, or equivalent. Works of the Roman historians, philosophers and orators are studied in depth. While authors read vary from year to year, the primary focus is on Cicero, Sallust, Livy or Tacitus.

CLAS 421 *Advanced Latin Poetry* (3 credits)

Prerequisite: CLAS 391 and 392, or equivalent. Works of the Roman poets are studied in depth. While authors read vary from year to year, the primary focus is on Virgil, Ovid, Horace, Juvenal or Lucretius.

CLAS 450 *Honours Seminar* (3 credits)

Prerequisite: Permission of the Department. The seminars focus on oral presentations by students. Topics vary from year to year.

CLAS 451 *Honours Thesis* (3 credits)

Prerequisite: Permission of the Department. The student works with an individual faculty member in a particular area of archaeology, history or philology to produce an extensive research paper.

CLAS 480 *Tutorial* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

CLAS 498 *Advanced Topics in Classics* (3 credits)**CLAS 499 *Advanced Topics in Classics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Arabic (Modern Standard)

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

MARA 205 *Introduction to Modern Standard Arabic I* (6 credits)

This course provides an intensive introduction to the basic elements of Modern Standard Arabic for the student with no knowledge of the language. Instruction addresses all the language competencies of Modern Standard Arabic.

MARA 206 *Introduction to Modern Standard Arabic II* (6 credits)

Prerequisite: MARA 205. This course continues the introduction to the basic elements of Modern Standard Arabic. Students practise conversation skills on basic general topics.

MARA 240 *Intermediate Modern Standard Arabic* (6 credits)

Prerequisite: MARA 206. This course provides a review of the basic elements of Modern Standard Arabic and continues to develop the four language skills within their cultural context. Students prepare brief essays and oral presentations.

MARA 301 *Advanced Arabic through Media* (3 credits)

Prerequisite: MARA 240 or equivalent. This course focuses on advanced Modern Standard Arabic through the analysis of media, including video, audio, and written press. Instruction builds particularly on the student's ability to respond to the works studied with advanced writing and oral strategies.

MARA 308 *Arabic for Business* (3 credits)

Prerequisite: MARA 240 or equivalent. This course is designed to give intermediate and advanced students a solid foundation in business vocabulary, correspondence, and basic business practices, as well as the cultural concepts necessary to enable them to express themselves in the Arabic-speaking business world.

NOTE: Students who have received credit for this topic under a MARA 398 number may not take this course for credit.

MARA 310 *Introduction to the Literature of the Arab World* (3 credits)

This course provides an introduction to the works of some of the major writers of contemporary Arabic culture. The course is taught in English and readings are in English translation.

MARA 365 *The Culture and Civilization of the Arab World* (3 credits)

This course provides an overview of the cultural manifestations of the Arab world. Topics include art, literature, culture, history, and philosophy. This course is taught in English.

MARA 398 *Special Topics in Arabic Language and Culture* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MARA 480 *Tutorial* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

Chinese (Mandarin)

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

MCHI 205 *Introduction to Modern Chinese (Mandarin) I* (9 credits)

This course provides an intensive introduction to the basic elements of Mandarin Chinese for the student with no knowledge of the language. Emphasis is on basic grammatical concepts, listening comprehension, and sound reproduction. Approximately 300 characters are studied.

NOTE: Students whose first language is Mandarin Chinese, or who have received a substantial part of their education in Mandarin Chinese, may not register for this course.

NOTE: Lab practice is compulsory in addition to class time: three hours per week for nine-credit sections.

MCHI 206 *Introduction to Modern Chinese (Mandarin) II* (6 credits)

Prerequisite: MCHI 205. This course continues the introduction to the basic elements of Mandarin Chinese, adding approximately 300 further characters.

NOTE: Students whose first language is Mandarin Chinese, or who have received a substantial part of their education in Mandarin Chinese, may not register for this course.

NOTE: Lab practice is compulsory in addition to class time: two hours per week for six-credit sections.

MCHI 240 *Intermediate Modern Chinese (Mandarin)* (6 credits)

Prerequisite: MCHI 206. The aim of this course is to consolidate the knowledge acquired in MCHI 205 and 206 and pursue communication skills on basic general topics in all competencies of the language, adding approximately 300 further characters.

MCHI 250 *Intermediate Modern Chinese II* (3 credits)

Prerequisite: MCHI 240 or equivalent. This course is a continuation of MCHI 240. It prepares intermediate language students in diverse aspects of reading, writing, and conversation. In addition to improving listening comprehension and speaking skills, this course places increased emphasis on reading and writing.

NOTE: Students who have received credit for this topic under an MCHI 398 number may not take this course for credit.

MCHI 306 *Introduction to Translation* (3 credits)

Prerequisite: MCHI 250 previously or concurrently. The emphasis of this course is placed on advanced grammar for the purposes of writing and translation.

NOTE: Students who have received credit for this topic under an MCHI 398 number may not take this course for credit.

MCHI 308 *Chinese for Business* (3 credits)

Prerequisite: MCHI 250 previously or concurrently. This course provides students with marketable skills including linguistic competence, cross-cultural proficiency, and knowledge about business in China across a variety of fields.

MCHI 310 *Introduction to Modern Chinese Literature* (3 credits)

This course provides an introduction to the works of some of the major writers of contemporary Chinese culture. The course is taught in English and reading materials are in English translation.

MCHI 311 *Classical Chinese Literature* (3 credits)

Taught in English, this course introduces classical Chinese literature from 1500 BCE to the end of the 19th century in its historical and cultural setting. Covering the four major literary genres of poetry, prose, drama and fiction, students learn both key Chinese aesthetic concepts and Western critical theory, with a view to encouraging cross- and intercultural interpretations. Major works are read in English translation.

NOTE: Students who have received credit for this topic under an MCHI 398 number may not take this course for credit.

MCHI 365 *Introduction to Chinese Cultural Traditions* (3 credits)

This course is an introduction to the formation and traditions of Chinese culture. Topics may include Confucian and Taoist philosophy, literature, and the arts. This course is taught in English.

NOTE: Students who have received credit for this topic under an MCHI 398 number may not take this course for credit.

MCHI 366 *Chinese Visual Culture* (3 credits)

Taught in English, this course introduces students to the traditions and achievements of Chinese visual culture. Employing contemporary critical approaches, students explore both mass and high cultures, with a primary focus on the development of Chinese painting from the 10th century to the present, with an emphasis on the interpretation of images.

NOTE: Students who have received credit for this topic under an MCHI 398 number may not take this course for credit.

MCHI 398 *Special Topics in Chinese Language and Culture* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MCHI 399 *Special Topics in Chinese Language and Culture* (6 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MCHI 480 *Tutorial* (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

German

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

GERM 200 *Introductory German: Intensive Course* (6 credits)

This course provides a comprehensive introduction to most of the basic elements of the German language for the student with no knowledge of German. Practice is provided through short readings, conversation, composition, and lab work.

NOTE: Students who have received credit for GERM 201, 202, or equivalent may not take this course for credit.

NOTE: This course covers the same material as GERM 201 and 202.

GERM 201 *Introductory German I* (3 credits)

This course provides an introduction to the elements of the German language for the student with no knowledge of German. Practice is provided through short readings, conversation, composition, and lab work.

NOTE: Students who have received credit for GERM 200 or equivalent may not take this course for credit.

GERM 202 *Introductory German II* (3 credits)

Prerequisite: GERM 201 or equivalent. This course is a continuation of GERM 201 and completes the study of the basic elements of the German language. Practice is provided through short readings, conversation, composition, and lab work.

NOTE: Students who have received credit for GERM 200 or equivalent may not take this course for credit.

GERM 230 *Introduction to German Culture* (3 credits)

This course offers a panoramic study of the major components of the culture of German-speaking countries from the Middle Ages to contemporary times. Attention is given to these countries' artistic, social, political, and economic life. This course is taught in English.

GERM 231 *German Literature in Translation* (3 credits)

This course focuses on reading and discussion of 20th-century literary works and films from Germany, Austria, and Switzerland. Works translated from German are used. This course is taught in English, but advanced German students are encouraged to read the texts in German.

GERM 240 *Intermediate German: Intensive Course* (6 credits)

Prerequisite: GERM 200, 202, or equivalent. This course provides a review of German grammar in a single term and furnishes additional details not dealt with in the introductory courses. Practice is provided through readings, discussions, and composition.

NOTE: Students who have received credit for GERM 241, 242, or equivalent may not take this course for credit.

NOTE: This course covers the same material as GERM 241 and 242.

GERM 241 *Intermediate German I* (3 credits)

Prerequisite: GERM 200, 202, or equivalent. This course provides a review of German grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for GERM 240 or equivalent may not take this course for credit.

GERM 242 *Intermediate German II* (3 credits)

Prerequisite: GERM 241 or equivalent. This course is a continuation of GERM 241. It completes the review of the grammar and includes additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for GERM 240 or equivalent may not take this course for credit.

GERM 260 *German for Reading Knowledge* (3 credits)

This course introduces the student to reading strategies, grammar, resources, and basic vocabulary and leads to a second-year reading knowledge of German in 13 weeks. This course is taught in English.

NOTE: Students registered in the German Minor program may not take this course for credit.

GERM 270 *Conversational German I* (3 credits)

Prerequisite: GERM 241 or equivalent or permission of the Department. This course develops oral communication skills and is applicable to real-life situations such as those in business, the arts, society, and education.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 298 AND HIGHER WILL BE CONDUCTED IN GERMAN.

GERM 298 *Selected Topics in German* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GERM 301 *Advanced Grammar and Composition I* (3 credits)

Prerequisite: GERM 240 or 242 or permission of the Department. This course is designed to help students understand advanced aspects of German grammar and to provide practice in the correct and effective writing of German.

GERM 302 *Advanced Grammar and Composition II* (3 credits)

Prerequisite: GERM 301. This course continues the study of advanced aspects of German grammar and provides practice in the correct and effective writing of German by means of composition such as the summary, description, narration, argumentation, and essay.

GERM 306 *Introduction to Translation* (3 credits)

Prerequisite: GERM 240 or 242. This course examines German and English grammar in a comparative context in order to provide a basis for translation between the two languages. It also aims to develop lexical and semantic knowledge of the German language through analysis of textual materials, with special focus on words and idiomatic expressions that are essential to clear and effective communication. Students translate short texts from a variety of fields, primarily from English to German.

GERM 307 *Translation Practice* (3 credits)

Prerequisite: GERM 306. This course continues the examination of German and English grammar in a practical context as a basis for translation between the two languages. It also enhances student lexical and semantic knowledge of the German language through direct, practical experience in translation. Students improve their vocabulary and linguistic accuracy by exploring the range of meanings associated with particular structures and idiomatic expressions. Translation is primarily from English to German.

GERM 308 *German for Business* (3 credits)

Prerequisite: GERM 240 or 242 or equivalent. This course provides students with marketable skills including linguistic competence, cross-cultural proficiency, and knowledge about business in Germany across a variety of fields.

NOTE: Students who have received credit for this topic under a GERM 398 number may not take this course for credit.

GERM 310 *Introduction to Modern German Literature I* (3 credits)

Prerequisite: GERM 301. This course provides a general overview of the major authors and trends of German literature from 1750 to 1900 within an historical context.

GERM 311 *Introduction to Modern German Literature II* (3 credits)

Prerequisite: GERM 301. This course provides a general overview of the major authors and trends of German literature in the 20th century within an historical context.

GERM 361 *Topics in the Culture of German-Speaking Nations* (3 credits)

Prerequisite: GERM 240 or 242. Topics vary from year to year. Possible topics include German film; literature of the Counter-culture; Germany and the Holocaust; immigrant culture and its discourse; women's writing; popular culture; Medieval Germany: kings, castles, and minstrels; cultural diversity in German-speaking nations. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students may take this course twice for credit in their program provided the subject matter is different.

GERM 362 *Modern Germany* (3 credits)

Prerequisite: GERM 240 or 242. This course gives an overview of the developments in Germany throughout the 20th century. The emphasis of the course may vary from year to year with such topics as Germany between World War I and II, the formative years after WWII and the development of East and West Germany, and the unified Germany. Materials to be studied include historical and topical documents, film, video, and web-based resources.

GERM 370 *Conversational German II* (3 credits)

Prerequisite: GERM 270. This course emphasizes the discussion and analysis of short and non-fictional and journalistic German texts to structure oral practice and to develop reading skills.

GERM 398 *Selected Topics in German* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GERM 410 *Dramatic Representations in German Cultures* (3 credits)

Prerequisite: GERM 310 or 311. The subject matter of this course varies. Topics may include classical German theatre, the theatre of Bertolt Brecht, and developments in contemporary theatre.

NOTE: Students who have received credit for GERM 432 or 436 may not take this course for credit.

GERM 420 *Narrative Representation in German Literature* (3 credits)

Prerequisite: GERM 310 or 311. The subject matter of this course varies. Topics may include post-reunification German prose, German Bildungsroman, representations of the Holocaust in German prose, migrant literature in Germany, and literature of the divided Germany.

GERM 480 *Tutorial I* (3 credits)

Prerequisite: Permission of the Department. This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 481 *Tutorial II* (3 credits)

Prerequisite: Permission of the Department. This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 482 *Tutorial III* (3 credits)

Prerequisite: Permission of the Department. This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 483 *Tutorial IV* (3 credits)

Prerequisite: Permission of the Department. This course offers guided readings in German language and/or literature, to meet the student's individual needs. At least one major written assignment is required.

GERM 490 *Honours Essay Tutorial* (3 credits)

Prerequisite: Honours status. This course provides the honours candidate with the opportunity to prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the German section.

GERM 498 *Advanced Topics in German* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Italian

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

ITAL 200 *Introductory Italian: Intensive Course* (6 credits)

This course provides a comprehensive introduction to the Italian language, completing the fundamental aspects of grammar in one term.

NOTE: Students who have received credit for ITAL 201 or 202 or 210 or 211 or 253 or 254 may not take this course for credit.

NOTE: This course covers the same material as ITAL 201 and 202.

ITAL 201 *Introductory Italian I* (3 credits)

This course provides an introduction to the basic elements of Italian for the student with no knowledge of the language.

NOTE: Students who have received credit for ITAL 200 or 210 or 211 or 253 or 254 may not take this course for credit.

ITAL 202 *Introductory Italian II* (3 credits)

Prerequisite: ITAL 201 or equivalent. The objective is to complete the study of fundamental aspects of Italian grammar.

NOTE: Students who have received credit for ITAL 200 or 210 or 211 or 253 or 254 may not take this course for credit.

ITAL 210 *Italian for Heritage Speakers I* (3 credits)

Prerequisite: Permission of the Department. This course provides an introduction to the basic elements of the Italian language and is designed for heritage speakers of Italian and/or students with some previous passive knowledge or exposure to the language, who wish to strengthen their linguistic knowledge of and skills in Italian. Emphasis is placed on grammar, reading and writing, vocabulary development, and exposure to the language and culture of Italian communities. Both oral and written expression are emphasized.

NOTE: Students who have received credit for ITAL 200 or 201 or 202 or 253 or 254, or for this topic under an ITAL 298 number, may not take this course for credit.

ITAL 211 *Italian for Heritage Speakers II* (3 credits)

Prerequisite: ITAL 210 or permission of the Department. This course is a continuation of ITAL 210 designed for heritage speakers of Italian and/or students with some previous passive knowledge or exposure to the language, who wish to strengthen their linguistic knowledge of and skills in Italian. Emphasis is placed on grammar, reading and writing, vocabulary development, and exposure to the language and culture of Italian communities. Both oral and written expression are emphasized.

NOTE: Students who have received credit for ITAL 200 or 201 or 202 or 253 or 254, or for this topic under an ITAL 298 number, may not take this course for credit.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 240 AND HIGHER WILL BE CONDUCTED IN ITALIAN.

ITAL 240 *Intermediate Italian: Intensive Course* (6 credits)

Prerequisite: ITAL 200 or 202 or 211 or equivalent. This course provides a review of Italian grammar in one term and deals with additional details not covered in the introductory course. Practice is provided through readings, discussions, and composition.

NOTE: Students who have received credit for ITAL 241 or 242 or 253 or 254 may not take this course for credit.

NOTE: This course covers the same material as ITAL 241 and 242.

ITAL 241 *Intermediate Italian I* (3 credits)

Prerequisite: ITAL 200 or 202 or 211 or equivalent. This course provides a review of Italian grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for ITAL 240 or 253 or 254 may not take this course for credit.

ITAL 242 *Intermediate Italian II* (3 credits)

Prerequisite: ITAL 241 or equivalent. This course is a continuation of ITAL 241. It completes the review of the grammar and provides additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for ITAL 240 or 253 or 254 may not take this course for credit.

ITAL 256 *Translation I* (3 credits)

Prerequisite: ITAL 200 or 202 or 211 or 254. This course provides a review of Italian grammar and introduces students to the fundamentals of translation.

ITAL 257 *Translation II* (3 credits)

Prerequisite: ITAL 256 or equivalent. This course continues the review of Italian grammar begun in ITAL 256 and uses selected short texts for translation into Italian.

ITAL 298 *Selected Topics in Italian* (3 credits)**ITAL 299 *Selected Topics in Italian*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ITAL 301 *Advanced Grammar and Composition I* (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course is intended to give the student increased fluency in and a firmer command of the language.

ITAL 302 *Advanced Grammar and Composition II* (3 credits)

Prerequisite: ITAL 301 or equivalent. This course is a continuation of ITAL 301. It provides students with further practice in advanced grammar and composition.

ITAL 306 Advanced Translation I (3 credits)

Prerequisite: ITAL 257 or equivalent. This course deals with idiomatic Italian usage and provides practice by means of translations into Italian of published material on a variety of topics.

ITAL 307 Advanced Translation II (3 credits)

Prerequisite: ITAL 306 or equivalent. This course is a continuation of ITAL 306. It deals with advanced problems and techniques of translation from Italian and into Italian.

ITAL 308 Italian for Business (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course is designed to give intermediate-advanced level students a solid foundation in business vocabulary, correspondence, and basic business practices, as well as the cultural concepts necessary to enable them to express themselves in the Italian-speaking business world.

ITAL 310 Survey of Italian Literature I (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course examines the major authors and trends of Italian literature from its origins to the end of the 16th century.

ITAL 311 Survey of Italian Literature II (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course examines the major authors and trends of Italian literature from the beginning of the 17th century to the present.

ITAL 365 Italian Civilization I (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course provides a survey of Italy's cultural and scientific achievements until the end of the 16th century. Attention is given to Italy's social, political, and economic life.

ITAL 366 Italian Civilization II (3 credits)

Prerequisite: ITAL 240 or 242 or 254 or equivalent. This course provides a survey of Italy's cultural and scientific achievements from the beginning of the 17th century to the present day. Attention is given to Italy's social, political, and economic life.

ITAL 398 Selected Topics in Italian (3 credits)

ITAL 399 Selected Topics in Italian (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ITAL 415 Dante and the Middle Ages (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 310 or 365 previously or concurrently; or permission of the Department. In this course selected passages of the *Vita nuova*, the *Monarchia*, and other earlier works are studied. Dante's contributions to the formation of the Italian language, literature, and culture are considered in their historical, social, and political context.

ITAL 416 Dante: Divina Commedia (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 310 or 365 previously or concurrently; or permission of the Department. This course undertakes an analysis of selected cantos of the *Divina Commedia* as a synthesis of medieval culture.

ITAL 422 Petrarch and Boccaccio (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 310 or 365 previously or concurrently; or permission of the Department. This course examines the origin and evolution of the early Italian novella. Petrarch and Boccaccio are studied as forerunners of humanism; emphasis is placed on Petrarch's *Canzoniere* and Boccaccio's *Decameron*.

ITAL 427 Italian Humanism and the Renaissance (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 310 or 365 previously or concurrently; or permission of the Department. This course deals with the rise of humanism and analyzes the Renaissance as a historical and cultural concept. References are made to the social, historical, and artistic trends in 15th- and early-16th-century Italy. Emphasis is on representative works of Alberti, Valla, Leonardo da Vinci, Pico della Mirandola and Machiavelli.

ITAL 434 The Epic Tradition in Italy (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 310 or 365 previously or concurrently; or permission of the Department. This course explores the nature and evolution of the chivalresque genre in Italy, mainly within the context of the 15th and 16th centuries, and with special emphasis on Ariosto and Tasso.

ITAL 435 The Baroque Age in Italy (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course presents a study of the Baroque as a cultural concept, and deals with representative literary, historical, artistic, and scientific works from such figures as Marino, Sarpi, Campanella, Galileo, and Bernini.

ITAL 436 *The Age of Enlightenment in Italy* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course examines the Enlightenment as a cultural concept, and provides a study of representative texts of such authors as Goldoni, Vico, Parini, and Beccaria.

ITAL 439 *Romanticism in Italy* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course examines the concept of Romanticism in Italy and its relation to Risorgimento. Emphasis is on representative works of Foscolo, Manzoni, and Leopardi. References are made to the role of leading political figures of the period.

ITAL 443 *Post-unification Italian Culture: From Verismo to Futurism* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course provides a study of the debate on the nature of Realism and the avant-garde in Italy in the late-19th and early-20th centuries. Readings are taken from such authors as Verga, Carducci, D'Annunzio and Marinetti.

ITAL 445 *Literature and Culture in Fascist Italy* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course explores the literary trends in Italy between the first and second World Wars within a historical and political context. It provides a study of representative works of such figures as Svevo, Pirandello, and Montale. Leading critical thinkers such as Croce and Gramsci are taken into consideration.

ITAL 446 *Cultural Expressions in Italy from Neo-Realism to the Present* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course examines the debate on Neo-realism and looks at literary and cinematographic expressions. It also deals with the *Neo-avanguardia* movement and questions of gender and post-modernism. Emphasis is on Calvino, Sciascia, Fellini, Antonioni, and Eco. References are also made to the social and political reality of contemporary Italy.

ITAL 450 *Feminist Discourse in Italy* (3 credits)

Prerequisite: ITAL 301 or equivalent; ITAL 311 or 366 previously or concurrently; or permission of the Department. This course studies the question of gender as a concept and traces its presence within the Italian cultural tradition from the Renaissance to the present. Representative works of figures such as Franco, Marinelli, de Fonseca Pimentel, Deledda, Aleramo, and Maraini are studied.

ITAL 461 *History of the Italian Language I* (3 credits)

Prerequisite: ITAL 301 or equivalent. This course examines the history of the Italian language from its origins to the end of the 16th century through the study of representative texts. Attention is given to other Romance languages.

ITAL 462 *History of the Italian Language II* (3 credits)

Prerequisite: ITAL 301 or equivalent. This course examines the history of the Italian language from the beginning of the 17th century to the present day through the study of representative texts. Attention is given to other Romance languages.

ITAL 480 *Tutorial I* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 481 *Tutorial II* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 482 *Tutorial III* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 483 *Tutorial IV* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Italian language and/or literature, and is designed to meet the individual needs of advanced students. Assignments include written and oral criticism of the works studied.

ITAL 490 *Honours Essay Tutorial* (3 credits)

Prerequisite: Honours status. This course provides the honours candidate with the opportunity to prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the Italian section.

ITAL 498 *Advanced Topics in Italian* (3 credits)

ITAL 499 *Advanced Topics in Italian* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Spanish

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

SPAN 200 *Introductory Spanish: Intensive Course* (6 credits)

This course provides a comprehensive introduction to the Spanish language, completing the fundamental aspects of grammar in one term.

NOTE: Students who have received credit for SPAN 201 or 202 may not take this course for credit.

NOTE: This course covers the same material as SPAN 201 and 202.

SPAN 201 *Introductory Spanish I* (3 credits)

This course provides an introduction to the basic elements of Spanish for the student with no knowledge of the language.

NOTE: Students who have received credit for SPAN 200 may not take this course for credit.

SPAN 202 *Introductory Spanish II* (3 credits)

Prerequisite: SPAN 201 or equivalent. The objective of this course is to complete the study of fundamental aspects of Spanish grammar.

NOTE: Students who have received credit for SPAN 200 may not take this course for credit.

UNLESS OTHERWISE INDICATED, ALL COURSES WITH NUMBERS 240 AND HIGHER WILL BE CONDUCTED IN SPANISH.

SPAN 240 *Intermediate Spanish: Intensive Course* (6 credits)

Prerequisite: SPAN 200 or 202 or equivalent. This course provides a review of Spanish grammar in a single term and furnishes additional details not dealt with in the introductory courses. Practice is provided through readings, discussions, and composition.

NOTE: Students who have received credit for SPAN 241 or 242 may not take this course for credit.

NOTE: This course covers the same material as SPAN 241 and 242.

SPAN 241 *Intermediate Spanish I* (3 credits)

Prerequisite: SPAN 200 or 202 or equivalent. This course provides a review of Spanish grammar and deals with additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for SPAN 240 may not take this course for credit.

SPAN 242 *Intermediate Spanish II* (3 credits)

Prerequisite: SPAN 241 or equivalent. This course is a continuation of SPAN 241. It completes the review of the grammar and includes additional details not covered in the introductory courses. Practice is provided through short readings, discussions, and composition.

NOTE: Students who have received credit for SPAN 240 may not take this course for credit.

SPAN 298 *Special Topics in Spanish* (3 credits)

SPAN 299 *Special Topics in Spanish* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SPAN 301 *Grammar and the Process of Writing I* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course offers a practical analysis of the conventions that govern grammar, spelling, punctuation, and syntax in Peninsular and Latin-American Spanish. It also focuses on the means of identifying, analyzing, and using effective stylistic resources in different forms of writing such as summaries, notes, journals, and short stories.

SPAN 302 *Grammar and the Process of Writing II* (3 credits)

Prerequisite: SPAN 301 or equivalent. This course continues the practical analysis of grammar and focuses on using effective stylistic resources and formal conventions in writing, especially for essays and related texts.

SPAN 303 *Critical Reading of Hispanic Texts* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course offers a survey of the major rhetorical devices and methodological tools for the critical reading of literary and other texts, and for the production of well-founded and persuasive writing in Spanish. The course covers notions of narratology and poetics, as well as discourse analysis and critical thinking. Activities include close reading of Hispanic texts and practical work in research and documentation, as well as the presentation of well-organized, analytical prose.

SPAN 305 *Communicative Strategies and Oral Communication for Non-Native Speakers* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course is offered to *non-native* speakers of Spanish only. Its main goal is for students to improve their oral production in Spanish. This course also encourages improved levels of competence in the other language skills: listening, reading, and to some extent writing.

NOTE: Students who have received credit for this topic under a SPAN 398 number may not take this course for credit.

SPAN 306 *Introduction to Translation* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course examines Spanish and English grammar in a comparative context in order to provide a sound basis for translation between the two languages. It also aims to develop lexical and semantic knowledge of the Spanish language through analysis of textual materials. Students translate short texts from a variety of fields such as literature, business, journalism, politics, and science. Translation is primarily from English to Spanish (some reference to French is included).

SPAN 307 *Translation Practice* (3 credits)

Prerequisite: SPAN 306 or equivalent. This course continues the examination of Spanish and English grammar in a practical context as a basis for translation between the two languages. It also enhances the students' lexical and semantic knowledge of the Spanish language through direct, practical experience in translation. Students translate texts from a variety of fields, with a particular emphasis on business, finance, tourism, journalism, and the arts. Translation is primarily from English to Spanish (some reference to French is included).

SPAN 308 *Spanish for Business* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course is designed to give students a solid foundation in business vocabulary and basic business practices, as well as the cultural concepts necessary to enable them to function in the Spanish-speaking business world. Activities may include the elaboration of different types of business documents, oral group activities and simulations, and the development of strategies needed for comprehension through visual and/or aural material.

SPAN 310 *Conquest and Empire: Spanish Literature from the 12th to the 17th Centuries* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to medieval and early modern Spanish literature by examining the relationship between cultural manifestations and emergent narratives of Spanish national history. Students are also introduced to literary analysis and its relation to socio-cultural issues through activities that may include small group discussions, close readings, short analytical papers, and essay exams.

SPAN 311 *Crisis and Introspection: Spanish Literature from the 18th to the 21st Centuries* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to modern Spanish literature and examines the relationship between these cultural manifestations and Spain's difficult transition towards modernity, with special emphasis on the Generation of '98 and its role in the debates that culminated in the Spanish Civil War. Students are also introduced to literary analysis and its relation to socio-cultural issues through activities that may include small group discussions, close readings, short analytical papers, and essay exams.

SPAN 320 *Defining Difference in Spanish America: Literature from 1500 to 1880* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to the richly varied texts of colonial Spanish America and the early independence era. It examines how from its very beginnings Spanish-American discourse attempts to distinguish itself from Peninsular traditions throughout the various cultural eras and within its socio-political contexts. Readings include letters, chronicles, poetry, and essays. Activities may include critical reading, oral discussions and presentations, summaries, and brief essays.

SPAN 321 *Identity and Independence in Spanish America: Literature from 1880 to the Present* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to the literature of the period following independence. It examines how the literature defines Spanish-American identities in urban and rural perspectives, in different genres and genders, throughout the cultural eras of the period, and within its socio-political contexts. Readings include poetry, essays, short stories, and excerpts from novels. Activities may include critical reading, oral discussions and presentations, summaries, and brief essays.

SPAN 362 *Cultures of Mexico, the Central American Region, and the Spanish Caribbean* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to the cultural manifestations of the nations of these regions within an historical framework. Emphasis is on the interaction between the events that shape the area, the wide variety of cultures that arose there, and the forms of artistic endeavour through which the peoples express themselves. Mexico, Cuba, and Colombia are given special importance; the history and culture of the Dominican Republic, Venezuela, Puerto Rico, and the Central American countries are also highlighted. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 363 *Cultures of the Southern Cone and the Andean Region* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course introduces students to the cultural achievements of the nations of the region within an historical framework. Emphasis is on the interaction between the events that shape the area, the wide variety of cultures that arose there, and the forms of artistic endeavour through which the many different peoples express themselves. Argentina, Peru, and Chile are given special importance; the history and culture of Uruguay, Ecuador, and Bolivia are also highlighted. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 365 *The History of Spanish Culture* (3 credits)

Prerequisite: SPAN 240 or 242 or equivalent. This course examines important linguistic, literary, and artistic developments of Spanish culture as they relate to the invention, consolidation, and critique of a unique Spanish identity. Activities may include oral discussions and presentations, analysis of written and visual texts, use of relevant Internet resources, summaries, and brief essays.

SPAN 398 Special Topics in Spanish (3 credits)

SPAN 399 Special Topics in Spanish (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

GROUP A COURSES: Literature and Society

(*SPAN 406-422 refer to Spain, 441-445 to Spanish America*)

Literature and Society explores the way in which the literary discourses of Spain and Spanish America both reflect and shape society in a historical context. It is based mainly on the chronological study of genres in literature. This option is the base for the honours program.

SPAN 406 From Orality to Literacy in Medieval Spain, 1100-1500 (3 credits)

Prerequisite: SPAN 301, 303, 310, or equivalent. This course examines the ways in which oral-popular discourses are appropriated by the representatives of "official" culture, as well as how emerging institutions fashion their message around a nascent concern with Hispanic identity in works from the late period of Spain's era of Reconquest. Topics of inquiry may include the social and political function of oral poetry, the importance of ritualistic cultural phenomena, the growing importance of vernacular literature, and the processes of canon formation.

SPAN 411 Freedom and Containment in Spanish Golden Age Prose, 1550-1700 (3 credits)

Prerequisite: SPAN 301, 303, 310, or equivalent. This course considers a selection of narrative texts from the Spanish Golden Age in order to examine the relationship between the reading subject and an emergent official culture. Through close textual analysis and critical discussion of representative works by authors such as Cervantes, Quevedo, and Zayas, students study and discuss literary and extra-literary issues representative of this period. Course topics may include theories of reader reception, the role of censorship, the construction of gender, and the creation of social types and anti-types.

SPAN 412 Golden Age Drama and Poetry: Theatricality in Renaissance and Baroque Spain, 1500-1690 (3 credits)

Prerequisite: SPAN 301, 303, 310, or equivalent. This course carries out a comparative study of the rhetorical strategies of literary and extra-literary representation in Golden Age Spain, and their role in the creation of an early modern subject of mass visual culture. Through close textual analysis and critical discussions of representative works by Spanish poets and playwrights such as Garcilaso, Lope, Góngora, Quevedo, Tirso, and Calderón, students examine a number of literary and theoretical topics. These may include the performative aspects of poetry, the literary uses of pictorial perspective, and the relationship between subjectivity and theatricality.

SPAN 415 Towards Modernity and Liberalism in Spain, 1808-1898 (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines the debates that arose during Spain's problematic transition towards cultural, political, and economic liberalism in the 19th century, from the outbreak of the Independence War against France until the fall of the Empire in the Americas. Content may vary from year to year and may include authors such as Zorrilla, Bécquer, Galdós, and Clarín. Topics may include competing visions of rationalism and Romanticism, the interplay of literary, scientific, and economic discourses, photography and new ways of seeing reality, and the relationship between the rise of the bourgeoisie and the reconceptualization of private space.

NOTE: Students who have received credit for SPAN 416 or 417 may not take this course for credit.

SPAN 418 Cultural Conflicts and Modernity in Spain, 1898-1939 (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines the cultural and ideological conflicts that took place in Spain between the fall of the Spanish Empire and the Civil War. Through close readings and critical discussions of works by authors such as Unamuno, Ortega, García Lorca, and Buñuel, students consider topics that may include the ethics of violence in cultural conflict, the relationship between culture and ideology, the role of emotions in the shaping of national identity, and the tension between humanism and technical progress.

NOTE: Students who have received credit for SPAN 419 may not take this course for credit.

SPAN 420 Dictatorship and Exile in Modern Spain, 1939-1975 (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines literary and cultural discourses in Spain during Franco's dictatorship. Content may vary from year to year and may focus on the literature produced under the dictatorship or in exile. Through close readings and critical discussions of works by authors such as Bergamín, Erice, Aub, and Matute, students consider topics that may include the impact of censorship on cultural history, cultural hegemony and exile, reactionary ideologies of modernity, and the role of silence and fragmentary discourse against official constructions of the nation.

NOTE: Students who have received credit for SPAN 419 may not take this course for credit.

SPAN 422 Spain in Transition: 1960 to the Present (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines Spanish literature in the context of the country's evolution towards cultural post-modernity, since the final years of Franco's dictatorship until today. Through close readings and critical discussions of works by authors such as Brossa, Goytisolo, Almodóvar, and the *Novísimos* group, students consider topics that may include the intertwining of official history and personal memory, the emergence of pop culture, the destabilization of modern identities, and nationalism at the turn of the century.

SPAN 441 *Romanticism and the Construction of Identity in Spanish America, 1820-1890* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines Spanish-American literature and culture of the 19th century in terms of the efforts to define national character through discourses on nature, the peoples, history, and traditions. The relationship of these discourses with Romanticism, the role of the writer, and the image and function of the feminine are particularly examined. Students study representative works by authors such as Heredia, Sarmiento, Gómez de Avellaneda, and Hernández. Students are introduced to the formulation of critical discourse through a series of short essays and oral presentations.

SPAN 442 *Modernism: Modernity and Rebellion, Rupture and Innovation in Spanish-American Letters, 1880-1920* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. Through the study of representative literary and other cultural texts, as well as the critical debates of the era (such as those concerning industrialization, U.S. hegemony and feminism), this course examines the various phases in the development of a Spanish-American consciousness towards modernity and cultural autonomy. Students study representative works by authors such as Martí, Gutiérrez Nájera, Darío, Lugones, and some women authors of the period. Students are introduced to the formulation of critical discourse by writing a series of short essays and delivering oral presentations.

SPAN 443 *The Spanish-American "Boom" and its Predecessors, 1950-1980* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines a selection of Spanish-American novels and essays of the period between approximately 1950 and 1975, known as the *Boom*. Through close textual analysis and a study of critical debates, the course considers literary and extra-literary issues representative of this period, including *lo real maravilloso* and magical realism as Latin-American specificities, the relationship between history and fiction, and the debate between regionalism and cosmopolitanism. Authors studied may include Carpentier, García Márquez, Puig and Allende.

GROUP B COURSES:

Expression and Culture (SPAN 450-474)

Expression and Culture explores and puts into practice the techniques and structures of different modes of expression in Hispanic cultures. It is primarily topics- or thematically based. This option is the base for the specialization program.

SPAN 450 *The Short Narrative in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. From its beginnings as an independent genre in the 19th century to the most recent minification, this course examines the short story in light of different theories of narratology, specifically as relating to the short narrative. Texts are taken from representative authors from either or both Spain and Spanish America, within their cultural context. Students are introduced to the formulation of critical discourse through a series of short essays and an oral presentation; students also write their own short fiction.

SPAN 451 *Dramatic Representations in Hispanic Cultures* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course introduces students to fundamental concepts in the study of Hispanic drama and film, as well as to wider issues of theatricality and performance. It deals with the cultural and historical relation between literature and the visual arts, and presents some basic tools and techniques of research and criticism as related to Hispanic theatre and cinema. The course may include student representations of scenes from plays studied.

SPAN 453 *From Object to Subject: Women and Discourse in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course introduces texts from different historical periods from various theoretical perspectives. Particular attention is given to theoretical perspectives pertinent to Spain and Spanish America. The function of gender in Hispanic discourse, representation of women, and strategies of expression in women writers are some of the topics that may be examined.

SPAN 455 *Perspectives on the Teaching of Spanish* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent; honours or specialization status with a GPA of 3.00 or higher; permission of the Department. This course provides students with basic knowledge of and structured practice in the principal approaches to the teaching of Spanish to speakers of other languages. Topics may include a selection of approaches to the teaching of Spanish, such as task-based learning, communicative methods, process writing, grammar for teachers of Spanish, the use of computer technology and Internet resources for the teaching of Spanish, the development of didactic material, as well as the incorporation of Hispanic cultural material.

NOTE: Students who have received credit for this topic under a SPAN 498 number may not take this course for credit.

SPAN 461 *The History of the Spanish Language* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines the historical and cultural evolution of the Spanish language. Topics to be considered may include the phonological and morphological development of Vulgar Latin, the development of variants between Peninsular and Spanish-American expression, and the dialogic and conflictive nature of linguistic change. In-class and take-home activities may include the translation of medieval and early modern Spanish texts into their modern equivalents.

SPAN 464 *Current Issues in the Hispanic Cultures: Spanish America* (3 credits)

Prerequisite: SPAN 301; 362 or 363, or equivalent. This course explores current newsworthy events and affairs in the political, social, and cultural spheres of Spanish America as seen through various media sources such as newspapers, magazines, radio and television, and the Internet. It includes a systematic study of techniques of oral expression. As such, activities emphasize oral skills and may include team-based class work and presentations, brief summaries, journal, and oral exams. Format and content vary from year to year.

SPAN 465 *Current Issues in the Hispanic Cultures: Spain* (3 credits)

Prerequisite: SPAN 301, 365, or equivalent. This course explores current newsworthy events and affairs in the political, social, and cultural spheres of Spain as seen through various media sources such as newspapers, magazines, radio and television, and the Internet. It includes a systematic study of techniques of oral expression. As such, activities emphasize oral skills and may include team-based class work and presentations, brief summaries, journal, and oral exams. Format and content vary from year to year.

SPAN 467 *The Avant-Gardes in Spanish America and Spain and their Repercussions in the Arts* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. Starting from an introduction to major currents of the historical Avant-garde (1920-1940), such as Futurism, Cubism, Dadaism, and Surrealism, the course traces the impact of the avant-gardes throughout 20th-century Hispanic poetry and the visual arts. Students explore particular manifestations of these currents in the art and poetry of Spanish America (*Creacionismo* and *Negrismo*) and Spain (*la Generación del '27*). Emphasis is placed on the role of the artist-poet as engaged actor of radical change in all dimensions of social and political life.

SPAN 469 *Hispanic Poetry and Poetics* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines poetic discourse in Hispanic culture. Through close readings and critical discussions of works by Spanish and/or Spanish-American poets, students consider topics that may include the rhetorical and linguistic strategies of poetic discourse, poetry as ideology, poetry and the body, and the relationship between poetry and other written and oral forms of discourse.

SPAN 470 *Spanish-American Testimonio Discourse* (3 credits)

Prerequisite: SPAN 301, 303; 362 or 363; or equivalent. This course offers a comprehensive study of the struggle between subaltern voices and mainstream culture, as manifested in *testimonio* discourse. The study includes an examination of the controversy surrounding *testimonio* with respect to its status as a literary genre and the question of appropriation of marginalized voices. Texts may include journalistic prose, essay, biography, and oral manifestations of subaltern groups. Authors may include Burgos/Menchú, Barnet/Montejo and Davis/Pablo.

SPAN 471 *The Art of Persuasion: the Hispanic Essay* (3 credits)

Prerequisite: SPAN 301, 303, or equivalent. This course examines the genre of essay writing in Spain and/or Spanish America. A concise historical overview traces the development of this genre to the present. The study of different types of rhetorical strategies, discourse, and objectives in essay writing focuses on contemporary texts. Students learn to develop their own skills towards the writing of effective persuasive prose.

SPAN 472 *Discourses of Discovery, Colonization, and Resistance in Spain and Spanish America* (3 credits)

Prerequisite: SPAN 301, 303, 310, or equivalent. This course examines the colonial subject as s/he appears in early modern articulations of the imperial centre and its relation to the colonial periphery, as well as in the emerging centres of Spanish America. Through close textual analysis and critical discussions of representative works by Peninsular and Colonial authors such as Columbus, Las Casas, Sor Juana and el Inca Garcilaso, students investigate topics that may include the rhetorical and legal tropes of discovery and their construction of an abject "other," the historical conditions that inform the chronicles of conquest, and strategies of cultural resistance employed by *criollo* and Amerindian subjects.

SPAN 473 *Literary Translation in Spanish* (3 credits)

Prerequisite: SPAN 301, 306, or equivalent; SPAN 303 previously or concurrently. This course examines the history and principles of literary translation with reference to translation between the Spanish- and English-speaking worlds. Literary translations both from Spanish to English and vice versa are analyzed within a critical context, and students translate essays, short stories, and poetry into both languages. Equal attention is paid to Spanish and English stylistics.

SPAN 474 *Translation for Specific Fields* (3 credits)

Prerequisite: SPAN 301, 306, or equivalent; SPAN 303 previously or concurrently. This course concentrates on the technical and stylistic elements of translation of texts from a variety of fields such as business, journalism, tourism, telecommunications, and international trade. Material to be translated includes actual texts, and activities involve analysis of translation strategies and of terminological challenges pertinent to effective written communication in each domain. Translation is from both Spanish to English and English to Spanish.

SPAN 480 *Tutorial I* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 481 *Tutorial II* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 482 *Tutorial III* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 483 *Tutorial IV* (3 credits)

Prerequisite: Permission of the Department. This course consists of guided readings in Spanish language and/or Hispanic literature, culture, and translation, to meet the individual student's needs.

SPAN 490 *Honours Essay Tutorial* (3 credits)

Prerequisite: Honours status. This course provides the honours candidate with the opportunity to prepare an extensive research essay, on a topic to be chosen by the candidate with the approval of a supervising member of the faculty of the Spanish section.

SPAN 491 *Theory and Methods of Literary Analysis* (3 credits)

Prerequisite: Honours status or permission of the Department. This course presents students with some of the fundamental concepts of contemporary critical theory and methods, as pertaining to the analysis of Hispanic texts. This course is complementary to SPAN 490.

NOTE: Students who have received credit for SPAN 403 may not take this course for credit.

SPAN 495 *Specialization Project* (3 credits)

Prerequisite: 30 credits in the specialization program. This course provides the specialization student with the opportunity to complete a major research project chosen by the candidate in consultation with and under the supervision of a member of the faculty of the Spanish section.

SPAN 498 *Advanced Topics in Spanish* (3 credits)**SPAN 499 *Advanced Topics in Spanish*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Linguistics

LING 200 *Introduction to Linguistic Science* (3 credits)

This course provides an introduction to the principles of general linguistics for beginners in the field. There is an emphasis on synchronic linguistic analysis, with a brief examination of historical and comparative linguistics.

LING 222 *Language and Mind: The Chomskyan Program* (3 credits)

This course uses language as a tool to examine the workings of the human mind. It approaches the study of language from the perspective of generative grammar as developed by Noam Chomsky and his collaborators. It deals with patterns of linguistic structure, rather than content or meaning. The goal of this course is to develop an understanding of the field of cognitive science (the study of knowledge and the mind/brain) and determine how linguistics fits in with disciplines like the study of vision, auditory perception and reasoning.

NOTE: Students who have received credit for LINZ 222 or for this topic under a LING 398 number may not take this course for credit.

LING 298 *Selected Topics in Linguistics* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LING 300 *Sociolinguistics* (3 credits)

A study of the beliefs, interrelationships, and values of societal groups as reflected in language.*NOTE: Students who have received credit for LINZ 300 may not take this course for credit.*

LING 315 *Syntactic Theory* (3 credits)

Prerequisite: LING 200 or LING 222 or equivalent; or permission of the Department. This course represents a survey of contemporary syntactic theory, with a focus on Government-Binding theory and its descendants. Phrase structure, movement, and the relevance of syntactic theory for theories of syntactic acquisition are considered.

LING 320 *Semantics* (3 credits)

This course introduces the basic notions required for formal analysis of meaning within a theory of language. The central objective is the development of a system for the representation of the logical structure of natural language. Contemporary works in linguistic semantics are critically examined.

LING 330 *Sanskrit* (3 credits)

Prerequisite: LING 200 or equivalent. This course provides an accelerated introduction to the fundamentals of Sanskrit grammar through the reading of texts, first in transliteration and later in devanāgarī. Particular attention is given to the language of the *Rig-Veda*, and its significance for the reconstruction of Proto-Indo-European.

LING 336 *Comparative Indo-European Linguistics* (3 credits)

Prerequisite: LING 200 or equivalent. Through a comparative study of the phonology of the various branches of the Indo-European language family (e.g. Indo-Iranian, Hellenic, Italic, Germanic, Slavic, Baltic), this course familiarizes the student with the techniques used in linguistic reconstruction. Emphasis is given to the development and differentiation of languages through time.

LING 341 *Introduction to Romance Linguistics* (3 credits)

A study of the modern Romance languages, especially French, Italian, and Spanish, and their development from Latin.

LING 353 *Psycholinguistics* (3 credits)

Prerequisite: LING 200 or PSYC 200 or equivalent. This course treats current issues in the experimental evaluation of linguistic theories, presenting both methodological concerns and empirical results. Topics covered include sentence processing, speech perception, lexical access and language development.

NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 372 *Descriptive and Instrumental Phonetics* (3 credits)

Description of speech sounds in articulatory terms. Identification and description of sounds that occur outside the Indo-European family of languages. Description of speech sounds as to their acoustic qualities: frequency, amplitude, pitch, stress. Interpretation of sound spectrograms.

LING 373 *Phonological Analysis* (3 credits)

Prerequisite: LING 200 or equivalent. This course examines the fundamentals of distinctive-feature analysis as developed by Jakobson, Chomsky, and Halle. Theoretical concepts and notational techniques are emphasized. Students receive extensive training in data analysis and rule writing.

LING 380 *Morphology* (3 credits)

Prerequisite: LING 373 or equivalent. This course consists of a survey of linguistic morphology, the study of word structure, and the tools used to perform morphological analysis. The course also gives some consideration to the issues relating to a theory of morphology.

NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 398 *Selected Topics in Linguistics* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LING 415 *Advanced Syntax* (3 credits)

Prerequisite: LING 315 or equivalent. This course considers current developments in the field of syntactic theory and their application to phenomena such as control, movement out of islands and binding.

NOTE: Students may take this course twice for credit provided the subject matter is different.

LING 420 *Language Change* (3 credits)

Prerequisite: LING 315, 336, 373, or equivalent. This course concentrates on the nature of language change, with an investigation into the relationship between theories of linguistic structure and theories of change. The theoretical foundations of contemporary methods in the study of language change are the central focus.

NOTE: Students who have received credit for this topic under a LING 398 number may not take this course for credit.

LING 421 *Non-Indo-European Structures* (3 credits)

Prerequisite: LING 315, 373, or equivalent. This course is intended to give the student an in-depth acquaintance with the structure of a language which differs markedly from that of familiar Indo-European languages. The course involves working with a native speaker and/or from textual material.

LING 425 *Language Acquisition and Universal Grammar* (3 credits)

Prerequisite: LING 315, 373, or equivalent. This course presents a survey of theoretical and empirical issues in the study of first language (L1) acquisition by children. Particular attention is paid to the role of Universal Grammar and innateness in explaining L1 acquisition, as well as to the significance of fundamental theoretical notions such as the competence/performance distinction.

LING 429 *Interfaces in Linguistic Theory* (3 credits)

Prerequisite: LING 373. This course presents, in considerable depth, current research on the formal relationships which hold between the modules of grammar, e.g. phonology-syntax, or syntax-semantics. The general problem of interfaces, and their relationship to assumptions such as modularity, are discussed. The particular interface covered may vary from year to year.

NOTE: Students may take this course twice for credit provided the subject matter is different. Students who have received credit for a particular topic under a LING 498 number may not take this course for credit unless the subject matter is different.

LING 436 *Advanced Indo-European Studies* (3 credits)

Prerequisite: LING 336 or equivalent. Detailed study of the synchronic and diachronic grammars of one or more Indo-European dialects essential to the reconstruction of the proto-language. Extensive readings are undertaken in both original texts and in scholarly contributions to their elucidation. Emphasis is placed on current issues and research in the field.

LING 437 *Problems in Indo-European Comparative Grammar* (3 credits)

Prerequisite: LING 336 or equivalent. This course explores one or more areas of Indo-European comparative grammar of particular interest in current research. Extensive reading in the scholarly literature is undertaken with emphasis on the principles by which hypotheses in historical linguistics can be framed and the criteria for testing such hypotheses.

LING 446 Comparative Grammar of Greek and Latin (3 credits)

Prerequisite: LING 200 or CLAS 280 or 290 or equivalent. A study of the similarities and differences in the phonology and morphology of Ancient Greek and Latin. Some attention is also given to issues of syntax and the lexicon.

LING 447 Mycenaean Greek (3 credits)

Prerequisite: LING 200 or CLAS 280 or equivalent. Dating from the 14th to the 12th century BCE, Mycenaean — the language of the Linear B tablets — is the earliest form of Greek attested. In this course, selected documents will be read, both in transliteration and in the Mycenaean syllabary, with attention both to linguistic and to cultural issues.

LING 456 Homeric Greek (3 credits)

Prerequisite: LING 200 or CLAS 280 or equivalent. An examination of the language of Homer, an artificial mixture of dialectal and diachronic variants, a *Kunstsprache*. Against the background of a study of the comparative and historical grammar of Greek and its development from Proto-Indo-European, the focus is on diachronic aspects of Homeric grammar and diction. Readings are principally from Books One and Three of the *Iliad*.

LING 457 Archaic Latin and the Italic Dialects (3 credits)

Prerequisite: LING 200 or CLAS 290 or equivalent. A study of inscriptions in archaic Latin and the ancient Italic dialects Oscan and Umbrian. Examination of the main features of phonology, morphology, syntax and the lexicon which distinguish Osco-Umbrian from Latin, with reference to their development from Proto-Indo-European.

LING 461 Hittite (3 credits)

Prerequisite: LING 336 or equivalent. The fundamentals of Hittite grammar are presented through the extensive reading of texts, both in transliteration and cuneiform. Considerable attention is given to problems of comparative grammar.

LING 473 Advanced Phonology (3 credits)

Prerequisite: LING 373 or equivalent. This course treats current issues in the theory of phonology, such as syllable structure, stress computation, vowel harmony and tonology. Critical readings from the current theoretical literature form the basis for discussion and study.

NOTE: Students who have received credit for this topic under a LING 498 number may not take this course for credit.

LING 475 History of Linguistics (3 credits)

Prerequisite: LING 315, 336, 373, or equivalent. This course examines the history of linguistics, with a particular focus on the structuralist predecessors of contemporary linguistic theorists. Both North American and European schools of thought are considered. Extensive reading of fundamental texts is required.

LING 490 Research Seminar in Linguistics (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity for advanced research in linguistics under the direct supervision of a faculty member. Participants will write a theoretical or experimental paper and present their findings for discussion with fellow students.

NOTE: Students may take this course only once for credit.

LING 495 Tutorial (3 credits)

Prerequisite: Permission of the Department. This course provides students with the opportunity to study a topic of individual interest under the guidance of a faculty member.

NOTE: Students may take this course twice for credit provided the subject matter is different.

LING 498 Advanced Topics in Linguistics (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NON-PROGRAM COURSES:**Hebrew**

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

HEBR 210 Introductory Course in Hebrew (6 credits)

A beginners' course in Hebrew, with readings of classical and modern texts.

NOTE: Students who have taken Hebrew at the Cegep level, or whose schooling has been conducted in Hebrew, will not be admitted to this course.

HEBR 241 Intermediate Hebrew I (3 credits)

Prerequisite: HEBR 210 or permission of the Department. This course includes a comprehensive review of Hebrew grammar and syntax and deals with additional details not covered in the introductory course. Practice is provided through compositions and readings of classical and modern Hebrew texts.

NOTE: Students who have received credit for HEBR 250 may not take this course for credit.

HEBR 242 *Intermediate Hebrew II* (3 credits)

Prerequisite: HEBR 241 or permission of the Department. This course continues the comprehensive review of Hebrew grammar and syntax, and deals with additional details not covered in the introductory course. Practice is provided through compositions and readings of classical and modern Hebrew texts.

NOTE: Students who have received credit for HEBR 250 may not take this course for credit.

HEBR 310 *Topics in Hebrew Literature* (3 credits)

Topics for this course will vary; possibilities may include modern Hebrew literature, masterpieces and genres in Hebrew literature, and others. This course is taught in English.

NOTE: Please see the Undergraduate Class Schedule for details.

Modern Languages

The following courses give instruction in languages and cultures not included in any of the Department's programs.

MGRK 290 *Modern Greek* (6 credits)

This course provides an introduction to the basic elements of modern Greek for the student with no knowledge of the language.

NOTE: Students who have received credit for this topic under an MODL 399 number may not take this course for credit.

MGRK 398 *Special Topics in Modern Greek* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MIRI 290 *Modern Irish* (6 credits)

This course provides an introduction to the basic elements of modern Irish for the student with no knowledge of the language.

NOTE: Students who have received credit for this topic under an MODL 399 number may not take this course for credit.

MIRI 398 *Special Topics in Modern Irish* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 298 *Special Topics in Modern Languages* (3 credits)**MODL 299 *Special Topics in Modern Languages*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 398 *Special Topics in Modern Languages* (3 credits)**MODL 399 *Special Topics in Modern Languages*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MODL 498 *Advanced Topics in Modern Languages* (3 credits)**MODL 499 *Advanced Topics in Modern Languages*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

MRUS 290 *Russian* (6 credits)

This course provides an introduction to the basic elements of Russian for the student with no knowledge of the language.

NOTE: Students who have received credit for RUSS 330 may not take this course for credit.

MRUS 398 *Special Topics in Russian* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.070

COMMUNICATION STUDIES

Faculty

Chair

RAE STASESON, MFA *Rutgers*, Associate Professor

Distinguished Professors Emeriti

JOHN BUELL, PhD *Montr.*
JOHN E. O'BRIEN, s.j., PhD *S.Calif.*

Professors

CHARLES ACLAND, PhD *III.*
MARTIN ALLOR, PhD *III.*
WILLIAM BUXTON, PhD *Berlin*
MAURICE CHARLAND, PhD *Iowa*
MONIKA KIN GAGNON, PhD *S.Fraser*
YASMIN JIWANI, PhD *S.Fraser*
BRIAN LEWIS, PhD *Iowa*
NIKOS METALLINOS, PhD *Utah*
LORNA ROTH, PhD *C'dia.*
KIM SAWCHUK, PhD *York (Can.)*
PETER C. VAN WYCK, PhD *McG.*

Associate Professors

OWEN CHAPMAN, PhD *C'dia.*
MIA CONSALVO, PhD *Iowa*
RICHARD HANCOX, MFA *Ohio*
ANDRA McCARTNEY, PhD *York (Can.)*
ELIZABETH MILLER, MFA *Rensselaer*
TIMOTHY SCHWAB, MFA *C'dia.*
MATTHEW SOAR, PhD *Mass.*
JEREMY STOLOW, PhD *York (Can.)*

Assistant Professors

TAGNY DUFF, MFA *C'dia.*
SANDRA GABRIELE, PhD *C'dia.*
KRISTA LYNES, PhD *Calif.(Santa Cruz)*

Affiliate Professor

CHANTAL NADEAU, PhD *Montr.*

Affiliate Associate Professor

LESLIE SHADE, PhD *McG.*

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Communication Studies and Journalism Building, Room: CJ 3.230
514-848-2424, ext. 2555

Department Objectives

The Department of Communication Studies takes a broad approach to the study of media and communication. Its undergraduate programs provide students with the analytical, critical, and creative skills necessary in a communication- and information-rich world.

Facilities

The Department provides the necessary equipment and facilities to accommodate students in laboratory courses. These include production studios, Mac labs, field production equipment for video and film (H.D. and 16mm), editing suites for video and film, digital sound facilities (production and post-production), and intermedia laboratories. The Learning Centre provides resources for supporting media production and studies as well as computers for program students to use. The media gallery is also housed in the Learning Centre.

Department Admission Requirements

The Department of Communication Studies has distinct admission procedures for each of its programs, in addition to the normal admission process of Concordia University. The Department is prepared to receive applications as early as January. Interested candidates should obtain information about admission requirements by visiting the Department's website at coms.concordia.ca.

Graduate Work in Communication Studies

The Department offers a one-year diploma program for students who have completed their undergraduate degree in another field and who desire a concentrated introduction to Communication Studies. It offers an MA in Media Studies for those with an undergraduate degree in Communication Studies or a cognate field. A PhD in Communications is offered jointly with Université de Montréal and UQAM. For details, please refer to the School of Graduate Studies Calendar or contact the Department.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

The Department offers three programs of study.

1. **BA Specialization in Communication Studies:** This program consists of 60 Communication Studies credits with the remaining elective credits drawn from outside the Department. It provides students with training in a variety of media and an in-depth understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication.
2. **BA Major in Communication Studies:** This program consists of 42 credits in Communication Studies with the remaining elective credits drawn from outside the Department. It provides students with training in a variety of media and an understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication.
3. **BA Major in Communication and Cultural Studies:** This program consists of 42 credits in Communication Studies with the remaining elective credits drawn from outside the Department. It offers a strong theoretical and critical understanding of communicative processes and of the social, cultural, persuasive, and aesthetic aspects of media and communication. It does not offer media production.

Elective credits are understood as courses taken in other departments or Faculties of the University. Credits in Communication Studies or in the Mel Hoppenheim School of Cinema may not be used in lieu of electives.

200-level courses are normally taken in first year, 300-level courses in second year, 400-level courses in third year.

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 – Programs and Admission Requirements – Profiles).

60 BA Specialization in Communication Studies

- 18 COMS 210³, 220³, 240³, 274³, 276³, 284³
6 Chosen from COMS 310³, 352³, 357³, 367³, 368³, 369³, 372³, 373³

6-18 Chosen from the list of Practicum Courses

18-30 Chosen from the list of Studies Courses at the 300 or 400 level, with at least 12 credits at the 400 level

NOTE: Students may not take more than one Practicum course in any one term at the 300 or 400 level.

42 BA Major in Communication Studies

- 18 COMS 210³, 220³, 240³, 274³, 276³, 284³
6 Chosen from COMS 310³, 352³, 357³, 367³, 368³, 369³, 372³, 373³

6-12 Chosen from the list of Practicum Courses

6-12 Chosen from the list of Studies Courses at the 300 or 400 level, with at least six credits at the 400 level

NOTE: Students may not take more than one Practicum course in any one term at the 300 or 400 level.

42 BA Major in Communication and Cultural Studies

Stage I

12 COMS 210³, 220³, 225³, 240³

Stage II

3 COMS 325³

6 Chosen from COMS 310³, 352³, 357³, 367³, 368³, 369³, 372³, 373³

Stage III

3 COMS 425³

18 Chosen from the list of Studies Courses at the 300 or 400 level, with at least nine credits at the 400 level

Practicum Courses

Practicum courses in the Department focus on the development of creative media practices within the context of Communication Studies research based in the humanities and social sciences. These courses include weekly lectures, readings, critical analysis, workshops, seminars, screenings, and presentations.

Practicum Courses

Practicum courses in the Department focus on the development of creative media practices within the context of Communication Studies research based in the humanities and social sciences. These courses include weekly lectures, readings, critical analysis, workshops, seminars, screenings, and presentations. First-year courses include an average of three hours of creative laboratories per week. Second- and third-year courses include an average of eight hours of creative labs and/or fieldwork per week.

COMS 274	Communication Media: Intermedia I (3 credits)
COMS 276	Communication Media: Sound I (3 credits)
COMS 284	Communication Media: Film and Video I (3 credits)
COMS 374	Communication Media: Intermedia II (6 credits)
COMS 376	Communication Media: Sound II (6 credits)
COMS 383	Communication Media: Film II (6 credits)
COMS 385	Communication Media: Video II (6 credits)
COMS 393	Communication Media: Special Topics (3 credits)
COMS 474	Communication Media: Intermedia III (6 credits)
COMS 476	Communication Media: Sound III (6 credits)
COMS 483	Communication Media: Film III (6 credits)
COMS 485	Communication Media: Video III (6 credits)
COMS 493	Communication Media: Advanced Topics (3 credits)

Studies Courses

Studies courses in the Department offer theoretical and critical understandings of social, cultural, formal, and other aspects of human communication and media. These courses may include weekly lectures, readings, critical analyses, seminars, screenings, and presentations.

COMS 210	Media Criticism (3 credits)
COMS 220	History of Communication and Media (3 credits)
COMS 225	Media Institutions and Policies (3 credits)
COMS 240	Communication Theory (3 credits)
COMS 301	Selected Topics in National Cinemas (3 credits)
COMS 304	Selected Topics in Film Studies (3 credits)
COMS 307	Scriptwriting for Media (3 credits)
COMS 308	Selected Topics in Video (3 credits)
COMS 309	Studies in Documentary (3 credits)
COMS 310	Media Genres (3 credits)
COMS 319	Media Literacy (3 credits)
COMS 324	Communication Analysis of Environment (3 credits)
COMS 325	Approaches to Communication Research (3 credits)
COMS 352	Media Policy in Canada (3 credits)
COMS 354	Youth and Media (3 credits)
COMS 355	Media and New Technology (3 credits)
COMS 357	Media and Critical Theory (3 credits)
COMS 360	Mass Communication (3 credits)
COMS 361	Propaganda (3 credits)
COMS 362	Psychology of Communication (3 credits)
COMS 365	History of Sound Recording (3 credits)

COMS 367	Media and Cultural Context (3 credits)
COMS 368	Media and Gender (3 credits)
COMS 369	Visual Communication and Culture (3 credits)
COMS 370	Advertising and the Consumer Culture (3 credits)
COMS 371	Public Relations: Principles and Problems (3 credits)
COMS 372	Theories of Public Discourse (3 credits)
COMS 373	Topics in Media and Cultural History (3 credits)
COMS 394	Communication Studies Apprenticeship I (3 credits)
COMS 395	Communication Studies Apprenticeship II (3 credits)
COMS 398	Selected Topics in Communication Studies (3 credits)
COMS 399	Selected Topics in Communication Studies (6 credits)
COMS 407	Advanced Scriptwriting for Media (3 credits)
COMS 410	Acoustic Communication and Design (3 credits)
COMS 411	Sexuality and Public Discourse (3 credits)
COMS 412	Discourses of Dissent (3 credits)
COMS 413	Cultures of Production (3 credits)
COMS 414	Production Administration (3 credits)
COMS 415	Advanced Topics in the Photographic Image (3 credits)
COMS 416	Film Criticism (3 credits)
COMS 418	Cultures of Globalization (3 credits)
COMS 419	Communications and Indigenous Peoples (3 credits)
COMS 420	Reception Studies (3 credits)
COMS 421	Communicative Performances and Interventions (3 credits)
COMS 422	Perspectives on the Information Society (3 credits)
COMS 423	Media Art and Aesthetics (3 credits)
COMS 424	Alternative Media (3 credits)
COMS 425	Advanced Seminar in Cultural Studies (3 credits)
COMS 426	Television Studies (3 credits)
COMS 434	Advanced Topics in Film Studies (3 credits)
COMS 435	Advanced Topics in Documentary Film and Video (3 credits)
COMS 437	Media Forecast (3 credits)
COMS 453	Communication Ethics (3 credits)
COMS 460	Political Communication (3 credits)
COMS 461	Organizational Communication (3 credits)
COMS 462	Communication, Culture and Popular Art (3 credits)
COMS 463	Semiotics (3 credits)
COMS 464	Race, Ethnicity and Media (3 credits)
COMS 465	Rhetoric and Communication (3 credits)
COMS 468	Communications, Development and Colonialism (3 credits)
COMS 472	Communication Technologies and Gender (3 credits)
COMS 473	International Communication (3 credits)
COMS 496	Directed Study I (3 credits)
COMS 497	Directed Study II (3 credits)
COMS 498	Advanced Topics in Communication Studies (3 credits)
COMS 499	Advanced Topics in Communication Studies (6 credits)

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses, unless otherwise indicated, are open to students who have successfully completed 24 university credits or who have received permission from the Department.
- (2) 400-level courses, unless otherwise indicated, are open to students who have successfully completed 48 university credits or who have received permission from the Department.

COMS 210 Media Criticism (3 credits)

Prerequisite: Registration in a Communication Studies program. Through lectures, discussions, readings, and critical analyses, this course introduces students to the major schools and practices of media criticism. The course articulates the relationships between formal, aesthetic, representational, and sensory elements of media texts and discourses.

COMS 220 History of Communication and Media (3 credits)

Prerequisite: Registration in a Communication Studies program. This course examines communication and media from a comparative and historical perspective. Topics include the transition from orality to literacy, the print revolution, the rise of imaging technologies, and the emergence of modern publics, nations, and global media systems. Assignments introduce methods of historical research.

COMS 225 *Media Institutions and Policies* (3 credits)

Prerequisite: Registration in Communication and Cultural Studies Major. This course introduces students to the analysis of the institutional, political, and economic forces that have shaped the development of media during the 20th century. Attention is given to the ownership structures, corporate practices, and state policy interventions affecting media institutions in both the public and private sectors. A particular focus is given to the interrelations between Cultural, Multicultural, and Communication Policy interventions.

NOTE: Students who have received credit for COMS 326 may not take this course for credit.

COMS 240 *Communication Theory* (3 credits)

Prerequisite: Registration in a Communication Studies program. Through lectures, discussions, and selected readings from the works of key theoreticians, this course introduces students to major approaches to the understanding of the process of communication.

COMS 274 *Communication Media: Intermedia I* (3 credits)

Prerequisite: Registration in a Major or Specialization in Communication Studies. This course provides an introduction to new and developing digital technologies (primarily computer-based media) through historical, theoretical, and critical perspectives on media, culture, and society. This includes basic concepts in software operating systems, communication design, and digital media creation.

NOTE: Students who have received credit for COMS 256 may not take this course for credit.

COMS 276 *Communication Media: Sound I* (3 credits)

Prerequisite: Registration in the Major or Specialization in Communication Studies. This course introduces students to acoustic, analog, and digital components of audio systems. Students explore the communicational and aesthetic characteristics of sound. Through practical exercises students learn how to structure sound into imaginative aural forms across various media.

NOTE: Students who have received credit for COMS 278 may not take this course for credit.

COMS 284 *Communication Media: Film and Video I* (3 credits)

Prerequisite: Registration in the Major or Specialization in Communication Studies. This course provides a foundation in the creative, critical, and technical aspects of 16mm film and digital video production, including an introduction to non-linear editing software. Through collaborative assignments, students discover the shared and distinct language of each medium.

NOTE: Students who have received credit for COMS 280 and 282 may not take this course for credit.

COMS 298 *Selected Topics in Communication Studies* (3 credits)**COMS 299 *Selected Topics in Communication Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

COMS 301 *Selected Topics in National Cinemas* (3 credits)

Prerequisite: See N.B. number (1). This course focuses on selected national cinemas. The analytic perspective of the course varies but may encompass such issues as cultural contexts; aesthetic conventions; economic and policy constraints; and the history of canons and their renewals. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for this topic under a COMS 303 number may not take this course for credit.

COMS 304 *Selected Topics in Film Studies* (3 credits)

Prerequisite: See N.B. number (1). The topic of this course varies but may include such issues as film theories; the political economy of cinema; the analysis of particular periods in film history; the analysis of the films of particular directors and/or producers; film policies, or the relations between film, video, and television. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for this topic under a COMS 302 number may not take this course for credit.

Communication Studies students may take no more than six credits from the Mel Hoppenheim School of Cinema in the Faculty of Fine Arts.

COMS 307 *Scriptwriting for Media* (3 credits)

Prerequisite: See N.B. number (1); registration in a Major or Specialization in Communication Studies; submission of a sample of creative writing by June 30 and subsequent approval by the instructor. This course is designed to provide knowledge of and practice in the forms and formats of scripts for media. Topics include the anatomy of a script, the relation between audio and visual elements, and the specificity of particular narrative and non-narrative genres. Emphasis is placed upon formal structures, such as story construction and plot development, character and dialogue, tension, conflict, resolution, and harmony.

NOTE: Students who have received credit for COMS 305 or 330 may not take this course for credit.

COMS 308 *Selected Topics in Video* (3 credits)

Prerequisite: See N.B. number (1). This course investigates a variety of video practices from the 1960s to present. These practices range from video as a political tool to video art and installation. Students gain an understanding of the critical and creative uses of video as a tool for communication and change.

COMS 309 *Studies in Documentary* (3 credits)

Prerequisite: See N.B. number (1). This course offers a survey of documentary genres in various media. Topics include the characteristic styles and forms of documentary, the function of documentary, and its relationship to truth and knowledge. The course consists of lectures, screenings, readings, critique, and discussion.

NOTE: Students who have received credit for COMS 306 and 331 may not take this course for credit.

COMS 310 *Media Genres* (3 credits)

Prerequisite: See N.B. number (1). This course presents the concept of genre as a framework for the study of media. Topics may include the history of development of genre theory, the distinctive fictive and non-fictive genres of particular media, and the analysis of emergent or hybrid genres.

COMS 319 *Media Literacy* (3 credits)

Prerequisite: See N.B. number (1). This course provides students with an overview of the fundamental principles governing visual media, in particular video, film, and computerized images. Emphasis is placed on the techniques applied in the construction of media images and particular messages. These media and media products are examined according to the criteria taken from perceptual, cognitive, and aesthetic theories of visual communication.

NOTE: Students who have received credit for this topic under a COMS 398 number may not take this course for credit.

COMS 324 *Communication Analysis of Environment* (3 credits)

Prerequisite: See N.B. number (1). This course analyzes communicational aspects of various sites such as museums, galleries, exhibitions, countrysides, landscapes, city streets, highways, department stores, and churches. These analyses are conducted from perspectives such as film locations work, interpretive writing, cultural studies, and soundscape research. Students take part in individual and group analyses of Montreal locations. Lectures, tutorials, and workshops.

COMS 325 *Approaches to Communication Research* (3 credits)

Prerequisite: Registration in Communication and Cultural Studies Major; COMS 225. This course introduces students to the logics of inquiry of the major research approaches used within Communication and Cultural Studies. It familiarizes students with the formation of research questions, the choice of appropriate methodological tools, and the interpretation and reporting of research findings. There is a particular focus on qualitative approaches to field research and discourse and textual analysis.

COMS 352 *Media Policy in Canada* (3 credits)

Prerequisite: See N.B. number (1). This course acquaints the student with the historical development of media policy in Canada. It examines the government regulation of media as well as the strategies that have been put in place to foster and guide the development of media and cultural industries. It also considers the present state of broadcasting, telecommunications, and Internet policies in Canada, focusing on current problems and exploring alternative solutions.

COMS 354 *Youth and Media* (3 credits)

Prerequisite: See N.B. number (1). This course explores the forms of communication that have developed between media and youth, including children and adolescents. Topical areas include future policies and planning in the light of developmental needs, ethical parameters, and experiments in creative empowerment.

COMS 355 *Media and New Technology* (3 credits)

Prerequisite: See N.B. number (1). This course examines the applications of computers in the field of communications from conceptual, theoretical, and practical perspectives. Analog and digital representation, transmission, storage, and processing of visual and aural information are discussed.

COMS 357 *Media and Critical Theory* (3 credits)

Prerequisite: See N.B. number (1). This course focuses on key authors and readings in critical theory, including the work of the Frankfurt School, British Cultural Studies, structuralism, post-structuralism, and contemporary continental philosophy. A central concern is to understand the nature of power in the modern media environment.

COMS 360 *Mass Communication* (3 credits)

The course examines the nature and forms of mass communication, the social sources and uses of mass communication, its psychology, audiences, and effects. The ethics of mass communication are also discussed. Through guest lecturers from the various media and readings of contemporary analyses/critiques, issues such as media ownership and access, government and self-regulation, technological implications, and media accountability are raised.

NOTE: Students who have received credit for COMZ 360 may not take this course for credit.

COMS 361 *Propaganda* (3 credits)

Prerequisite: See N.B. number (1). The aim of this course is to recognize the orchestration of the elements of propaganda in media, and to develop the means to deal with it. Course methodology includes lectures, discussions, and projects.

NOTE: Students registered in a Communication Studies program may not take this course for program credit but may take it for degree credit.

COMS 362 *Psychology of Communication* (3 credits)

Prerequisite: See N.B. number (1). The objectives of the course are to provide the learner with: 1) an overview of psychological processes active in the communicative act; 2) the opportunity to explore a single media area in depth, either independently or in a

small group. Through a variety of formats, topic areas such as the following are explored: perception and information processing, language development, areas of para-psychology related to communication, influences on attitude/behaviour, verbal/non-verbal codes, and meaning.

COMS 365 *History of Sound Recording* (3 credits)

Prerequisite: See N.B. number (1). This course traces the technological development of sound recording and establishes the historical context and the social and economic conditions in which this development has occurred. The evolution of studio recording practices, the structure of the music industry and its global operations, changes in the production and consumption of music, and changes in the role of music as a form of cultural communication are examined. Attention is also given to sound recording practices in cinema, radio, television and digital media.

COMS 367 *Media and Cultural Context* (3 credits)

Prerequisite: See N.B. number (1). This course examines the contested notions of culture and diversity as they relate to interpersonal and mediated communication. It focuses on ways in which different cultural communities critique and access a range of cultural forms, on issues and challenges of cross-cultural communications, and on media representational practices, challenges, and problematics.

COMS 368 *Media and Gender* (3 credits)

Prerequisite: See N.B. number (1). This course investigates how sex and gender are represented in and by the media. The course examines sexuality, sexism, and theories of gender through a critical examination of contemporary media topics.

COMS 369 *Visual Communication and Culture* (3 credits)

Prerequisite: See N.B. number (1). This course introduces the basic principles of visual forms of communication, and considers the relationship of visual and verbal components within media messages. It also presents various modes of visual communication, considers their place within cultural understandings of representation, and examines the place of the visual within contemporary culture.

COMS 370 *Advertising and the Consumer Culture* (3 credits)

Prerequisite: See N.B. number (1). This course critically examines the place of advertising in contemporary society. Topics may include the analysis of communication strategies, the construction of desire, the significance of advertising to the production and circulation of commodities, and the role of advertising and consumption in the construction of social identity.

NOTE: Students who have received credit for COMS 470 may not take this course for credit.

COMS 371 *Public Relations: Principles and Problems* (3 credits)

Prerequisite: See N.B. number (1). This course considers the principles and responsibilities of public relations, and critically examines specific problems and the role of media choices and practices in effecting solutions.

NOTE: Students who have received credit for COMS 471 may not take this course for credit.

COMS 372 *Theories of Public Discourse* (3 credits)

Prerequisite: See N.B. number (1). This course presents a variety of theoretical frameworks that inform the analysis of public communication. Emphasis is placed on cultural, political, and ideological interpretations. Concepts presented are drawn from a number of traditions including rhetoric, hermeneutics, post-structuralism, psychoanalysis, semiotics, and deconstruction.

COMS 373 *Topics in Media and Cultural History* (3 credits)

Prerequisite: See N.B. number (1). This course offers an in-depth examination of specific periods or issues in media and cultural history. Selected topics focus on the development of media forms or cultural practices, as well as their social and political consequences. Historiographic research methods and theories are addressed.

COMS 374 *Communication Media: Intermedia II* (6 credits)

Prerequisite: COMS 274; permission of the Department. This course continues the exploration of concepts in digital communications, primarily computer-based media, and their application to communication design and media production. The course involves historical, theoretical, and critical reflection, a variety of digital production exercises, and intermedia projects.

NOTE: Students who have received credit for this topic under a COMS 399 number may not take this course for credit.

COMS 376 *Communication Media: Sound II* (6 credits)

Prerequisite: COMS 276; permission of the Department. This course explores acoustic communication, focusing on audio production techniques associated with various media, including radio, film, video, television, music recording, and intermedia. Students develop technical skills in sound creation and a critical awareness of the social and historical contexts of sound production and reception.

NOTE: Students who have received credit for COMS 378 may not take this course for credit.

COMS 383 *Communication Media: Film II* (6 credits)

Prerequisite: COMS 284; permission of the Department. This intermediate course focuses on the aesthetic, theoretical, practical, and creative aspects of communication in cinema. Students shoot 16mm film, with post-production on digital video. Innovative approaches to technical and financial constraints, to required lengths and delivery dates, are emphasized.

NOTE: Students who have received credit for COMS 381 may not take this course for credit.

COMS 385 *Communication Media: Video II* (6 credits)

Prerequisite: COMS 284; permission of the Department. This course explores aesthetic, critical, and theoretical issues through the development of artistic voice, concept, and audience. Students develop collaborative projects that use a range of visual and aural strategies. Workshops emphasize technical training in camera, sound, lighting, and editing.

NOTE: Students who have received credit for COMS 387 may not take this course for credit.

COMS 393 *Communication Media: Special Topics* (3 credits)

Prerequisite: COMS 274, 276 or 284; submission of a portfolio and project proposal to instructor and permission of the Department. This course involves the development and creation of specialized projects in selected media genres and forms. Emphasis is placed upon conception, design, and execution of media works. Choice of media and types of forms and genres vary from year to year. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for this topic under COMS 379 or 380 may not take this course for credit.

COMS 394 *Communication Studies Apprenticeship I* (3 credits)

Prerequisite: See N.B. number (1); registration in a Communication Studies program; permission of the Department. With approval from the BA program director, students are given the opportunity to work in the communications industry under the co-supervision of a faculty member and a media professional. Students may be accepted for an open apprenticeship position offered to the Department, or they may formulate a study proposal on their own initiative. In order to receive credit, such an apprenticeship proposal must be approved by the BA program director.

NOTE: Students who have received credit for COMS 494 may not take this course for credit.

COMS 395 *Communication Studies Apprenticeship II* (3 credits)

Prerequisite: See N.B. number (1); registration in a Communication Studies program; permission of the Department.

NOTE: Students who have received credit for COMS 394 may register for COMS 395.

NOTE: Students who have received credit for COMS 495 may not take this course for credit.

COMS 398 *Selected Topics in Communication Studies* (3 credits)**COMS 399 *Selected Topics in Communication Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

COMS 407 *Advanced Scriptwriting for Media* (3 credits)

Prerequisite: See N.B. number (2); COMS 307; submission of a sample of creative writing and subsequent approval by the instructor. This course provides an in-depth approach to writing for specific media. Emphasis is placed upon structure, storytelling, research, and the interplay of character and action. Different paradigms for both fiction and non-fiction are considered.

NOTE: Students who have received credit for COMS 305 or 330 may not take this course for credit.

COMS 410 *Acoustic Communication and Design* (3 credits)

Prerequisite: See N.B. number (2). This course investigates contemporary theories of acoustic communication and design, such as Attali's concept of noise, Schaeffer's theory of the sound object, Schafer's concept of soundscape, Chion's cinema for the ear, and Augoyard's repertoire of sound effects. Students engage in critical analysis of selected sound texts from various media.

COMS 411 *Sexuality and Public Discourse* (3 credits)

Prerequisite: See N.B. number (2). This course analyzes and explores the ways sexuality circulates in and as public discourses. Through a variety of conceptual formations and critical conceptualizations of "the public" and "sexuality," this course analyzes conceptually and critically how sexuality and the notion of the public are mutually constitutive. The seminar is interdisciplinary and draws upon works in feminist studies, queer theory, political philosophy, history, cultural studies, and communication theory.

COMS 412 *Discourses of Dissent* (3 credits)

Prerequisite: See N.B. number (2). This course examines the forms and tactics of public discourses directed toward social change. Forms of public discourse that may be considered include speech, images, audiovisual works, as well as web-based sites or forms of communication. Emphasis is placed upon political protest, conflict and controversy, and mobilization. Themes explored include the development of speaking positions, the use of unconventional tactics, and the appropriation or rejection of received values.

COMS 413 *Cultures of Production* (3 credits)

Prerequisite: See N.B. number (2). Drawing on a range of recent field studies exploring the creative workplace (e.g. television production, the fashion industry, ad agencies, graphic design companies, the music business), this course frames commercial cultural production as a site of active agency, negotiation, and constraint through readings, discussion, and the design and execution of field research projects.

COMS 414 *Production Administration* (3 credits)

Prerequisite: See N.B. number (2). This course focuses on the language, skills, and strategies necessary for producing media projects and events. Administration, organization, permits and permissions, fundraising, liability and contracts, team-building, distribution and writing are just a few of the areas that are examined as students learn the skills necessary to be a producer.

COMS 415 Advanced Topics in the Photographic Image (3 credits)

Prerequisite: See N.B. number (2). This course explores the themes and concerns associated with particular photographic practices. Through class discussion, visual materials, readings, and writing projects, students develop a critical understanding of the history, language, and aesthetics of the photographic image.

COMS 416 Film Criticism (3 credits)

Prerequisite: See N.B. number (2). This course provides an introduction to the assumptions, methodologies, and vocabularies implicit in important schools of popular and academic film criticism.

COMS 418 Cultures of Globalization (3 credits)

Prerequisite: See N.B. number (2). This course examines the significance of communication technologies to the process of globalization, which has increased and accelerated the movement of people and commodities across the world. The resulting transnational networks of cultural, economic, political, and social linkages and alliances are considered, as is the role of media in engendering new forms of community and identity.

COMS 419 Communications and Indigenous Peoples (3 credits)

Prerequisite: See N.B. number (2). Focusing on Canadian First Peoples territories in the North and South, as well as selected circumpolar regions, such as parts of Australia and other areas of the world inhabited by indigenous peoples, this course examines from a global perspective the historical, theoretical, and cross-cultural content and contexts of aboriginal media financing, audience research, product development, distribution issues, and policy formation. Broadcasting, print, and digital media case studies and materials are central components.

COMS 420 Reception Studies (3 credits)

Prerequisite: See N.B. number (2). This course examines recent theory and research trends in the area of media reception studies and audience agency. Topics may include discursive, institutional, observational, and ethnographic approaches through readings, discussion, and the design and execution of field research projects.

COMS 421 Communicative Performances and Interventions (3 credits)

Prerequisite: See N.B. number (2). This course examines how media can be used in order to intervene in social and cultural issues. Emphasis is placed upon the performative character of interventions: they occur at a particular time and in a particular place, they are addressed to and seek to move particular audiences. Topics may include the history of performance strategies, the social and political character of aesthetic interventions, and the forms of such performances in relation to various media of communication.

COMS 422 Perspectives on the Information Society (3 credits)

Prerequisite: See N.B. number (2). This course critically examines the political, social, and ethical dimensions of the information society within Canada and throughout the world. The development of the information society is placed in a socio-historical context. The significance of information and communication technologies is considered and the role of global information and communication policies is examined.

COMS 423 Media Art and Aesthetics (3 credits)

Prerequisite: See N.B. number (2). This course examines the aesthetic principles pertinent to the analysis and creation of works within communication media. Topics may include the field of perception, the role of cognition, the elements of composition, and the interplay of form and meaning. Both the static and dynamic aspects of visual and aural elements are considered.

COMS 424 Alternative Media (3 credits)

Prerequisite: See N.B. number (2). This course examines various alternatives to mainstream media. These alternatives may include community radio and video, independent film, the Internet, and other emergent cultural forms such as the pastiche and parody of "culture jamming." The concepts of mainstream and alternative are explored and the relationship between alternative media and social practices is considered.

COMS 425 Advanced Seminar in Cultural Studies (3 credits)

Prerequisite: Registration in the Communication and Cultural Studies Major; see N.B. number (2). This course offers an intense examination of a prominent contemporary debate and/or issue in cultural studies. Students work toward the completion of a major research assignment.

COMS 426 Television Studies (3 credits)

Prerequisite: See N.B. number (2). This course examines recent research focusing on television. Topics may include technological and industrial changes, audience activity, new genres, and representational conventions.

COMS 434 Advanced Topics in Film Studies (3 credits)

Prerequisite: See N.B. number (2). This course provides an in-depth study of a selected area of film studies. Specific topics for this course will be stated in the Undergraduate Class Schedule.

COMS 435 Advanced Topics in Documentary Film and Video (3 credits)

Prerequisite: See N.B. number (2). This course provides an in-depth study of selected film and video documentary genres. Specific topics for this course will be stated in the Undergraduate Class Schedule.

COMS 437 *Media Forecast* (3 credits)

Prerequisite: See N.B. number (2). This course examines trends in film, sound, television, and other media for future applications. The course includes theory of media effects. Representatives from industry and government are invited to discuss future trends in media utilization. The course demands a theoretical and practical model for original or novel use of a medium or media mix.

COMS 453 *Communication Ethics* (3 credits)

Prerequisite: See N.B. number (2). This course allows students to confront issues of creative responsibility and ethical dilemmas in media practice. Emphasis is placed upon the relationship between production and theory at the level of ethical responsibility. Specific issues include ethical theories as applied to media, communication and information; the relationship of human values and technologies of information reproduction; the possibilities of critical media practice; identification of challenges emerging from experience in Communication Studies.

NOTE: Students who have received credit for JOUR 316 or 317 may not take this course for credit.

COMS 460 *Political Communication* (3 credits)

Prerequisite: See N.B. number (2). The relationships between forms of communication and political structures and processes are examined. Topics include freedom of expression, the role of communication in mediating conflict, the place of deliberation and debate in democracy, political campaigns and advertising, and the relationship between styles of communication and models of governance.

COMS 461 *Organizational Communication* (3 credits)

Prerequisite: See N.B. number (2). This course considers major approaches to organizational communication in relation to shifting patterns of power, inequality, and technological change. Topics include communication networks, organization culture, bureaucracy, systematically distorted communication, gendered communication, the impact of new communication technologies, and patterns of organizational dominance and resistance. Case studies of particular organizations are examined.

COMS 462 *Communication, Culture, and Popular Art* (3 credits)

Prerequisite: See N.B. number (2). This course offers an advanced examination of popular culture. With attention to such phenomena as hit films and television shows, stars, fans, and pop art, this course focuses on the formation of hierarchies of value in cultural forms. This course examines how some cultural products come to be celebrated while others are dismissed. It also considers social and political consequences of divisions of high and low culture.

COMS 463 *Semiotics* (3 credits)

Prerequisite: See N.B. number (2). This course provides a detailed introduction to the semiotics of communication. The course considers the formal characteristics of signs and codes and examines how signs or texts produce meaning. Central to this course is the notion that sign-systems are fundamental to the production of knowledge and ideology. The course proceeds through lectures, an analytical reading of assigned texts, and student discussion and presentations.

COMS 464 *Race, Ethnicity and Media* (3 credits)

Prerequisite: See N.B. number (2). This course addresses practical and theoretical issues of race and ethnicity that have become focal points for current debates in public cultural expression and media studies. The following themes are discussed: cultural/racial difference and its implications for media studies; the (mis)representation of multicultural and multiracial minorities in mainstream and alternative media; questions of access to arts and other cultural funding sources; implications of employment equity legislation in light of media budget cuts; and cross-cultural awareness programs vs. anti-racist training for media professionals. Theoretical readings which frame issues of cultural and racial representation are an integral part of this course.

COMS 465 *Rhetoric and Communication* (3 credits)

Prerequisite: See N.B. number (2). This course focuses upon communication as persuasive or as producing identification. Emphasis is placed upon the role of communication in civic affairs. Classical and contemporary approaches to rhetorical theory and criticism are examined.

COMS 468 *Communications, Development and Colonialism* (3 credits)

Prerequisite: See N.B. number (2). This course discusses the role media can play in indigenous and international development. The concept of development communications is examined in the context of debates within neo-colonial and post-colonial theories.

COMS 472 *Communication Technologies and Gender* (3 credits)

Prerequisite: See N.B. number (2). Feminist theories of communication technologies are used to critique the impact and meanings of these technologies in various spheres of cultural activity. Topics include the mass media, technological mediations in organizations and institutions, and the re-articulation of domestic and public spaces, such as the Internet and the World Wide Web. Special attention is paid to these electronic and digital technologies — or new media — and the communicational and representational possibilities they enable or foreclose. The class is conducted as an intensive seminar. Completion of a prior course in women's studies or gender studies at the university level is recommended.

COMS 473 *International Communication* (3 credits)

Prerequisite: See N.B. number (2). This course explores historical and current parameters of international communications within the context of current global shifts in power/knowledge relations. Discussion topics are selected from among the following: key

development and neo-colonial theories, cultural/media imperialism, globalization, the UN infrastructure, the Right to Communicate debates, national sovereignty issues, international broadcasting, cross-cultural audience reception research and effects theories, telediplomacy, the World Wide Web and the Internet, women as an international constituency group, and others.

COMS 474 *Communication Media: Intermedia III* (6 credits)

Prerequisite: COMS 374; permission of the Department. This is an advanced course in intermedia theory and creation, exploring the interrelationships among communication design, interactivity and computer-based media production, through a variety of digital production exercises and substantial intermedia projects.

NOTE: Students who have received credit for COMS 490 may not take this course for credit.

COMS 476 *Communication Media: Sound III* (6 credits)

Prerequisite: COMS 376; permission of the Department. This advanced course involves analysis and creation of substantial audio projects such as sound documentaries, song cycles, soundscape projects, multi-layered soundtracks, and audio installations. Emphasis is placed on creative portfolio development and public presentation.

NOTE: Students who have received credit for COMS 478 may not take this course for credit.

COMS 483 *Communication Media: Film III* (6 credits)

Prerequisite: COMS 383; permission of the Department. This advanced course focuses on the conception, development, and production of portfolio quality films. Formats include the use of Super 16mm and digital post-production. Students develop advanced production skills and are introduced to film financing and distribution.

NOTE: Students who have received credit for COMS 481 may not take this course for credit.

COMS 485 *Communication Media: Video III* (6 credits)

Prerequisite: COMS 385; permission of the Department. This advanced course emphasizes the formal and conceptual challenges of developing a personal voice and production style in the creation of portfolio-ready work. Through media analysis and writing, students develop an understanding of aesthetic and critical aspects of digital video. Production resources, funding, and exhibition opportunities are investigated.

NOTE: Students who have received credit for COMS 487 may not take this course for credit.

COMS 493 *Communication Media: Advanced Topics* (3 credits)

Prerequisite: COMS 374, 376, 383 or 385; submission of portfolio and project proposal to instructor and permission of the Department. This course involves the development and creation of specialized projects in selected media genres and forms. Emphasis is placed upon conception, design, and execution of media works. Choice of media and types of forms and genres vary from year to year. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

No more than six credits may be taken in Apprenticeships or Directed Study. The appropriate Cluster for Apprenticeship and Directed Study courses is determined by the course content as outlined in the student proposal.

COMS 496 *Directed Study I* (3 credits)

Prerequisite: Registration in a Communication Studies program. Towards the end of their second year, students enrolled in a Communication Studies program who have demonstrated scholarly and creative ability may be selected for major research or production in a communications area of special interest. During the third year, individually or in teams, the project is realized in close collaboration with faculty directors.

NOTE: Students who have received credit for COMS 495 may not take this course for credit.

COMS 497 *Directed Study II* (3 credits)

Prerequisite: Registration in a Communication Studies program.

NOTE: Students who have received credit for COMS 496 may register for COMS 497.

COMS 498 *Advanced Topics in Communication Studies* (3 credits)

COMS 499 *Advanced Topics in Communication Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.080

ECONOMICS

Faculty

Chair

M. GREGORY LEBLANC, PhD Qu., Associate Professor

Distinguished Professor Emeritus

GORDON FISHER, PhD S'ton.

Professors

SYED AHSAN, PhD McM.

PAUL GOMME, PhD W.Ont.

NIKOLAY GOSPODINOV, PhD Boston Coll.

IAN IRVINE, PhD W.Ont.

JAMES McINTOSH, PhD L.S.E.Lond.

FRANK MÜLLER, PhD Ruhr.

ECKHARD SIGGEL, PhD Tor.

WILLIAM A. SIMS, PhD Tor.

Associate Professors

BRYAN CAMPBELL, PhD Montr.

EFFROSYNI DIAMANTOUDI, PhD McG.

JORGEN HANSEN, PhD Gothenburg

NURUL ISLAM, PhD McG.

TATYANA KORESHKOVA, PhD W.Ont.

MING LI, PhD Wis.(Madison)

DIPJYOTI MAJUMDAR, PhD I.Stat.I.

DAN OTCHERE, PhD McG.

SZILVIA PÁPAI, PhD Cal.Tech.

ARTEM PROKHOROV, PhD Mich.State

MICHAEL SAMPSON, PhD Qu.

ARTYOM SHNEYEROV, PhD Northwestern

CHRISTIAN SIGOUIN, PhD Br.Col.

Assistant Professors

PROSPER DOVONON, PhD Montr.

DAVID FULLER, PhD Iowa

DAMBA LKHAGVASUREN, PhD Roch.

HUAN XIE, PhD Pitt.

Senior Lecturers

CAROL CHUI-HA LAU, PhD Calg.

IVAN TCHINKOV, PhD S.Fraser

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Hall Building, Room: H 1155

514-848-2424, ext. 3900

Department Objectives

The Department aims to educate students in economics, both at the graduate and undergraduate level, and to contribute to the advancement of the discipline through research and teaching. Economists study the production, distribution, and consumption of goods and services – essential knowledge for today's business people and policy makers. Blending both theory and practical applications, the Department of Economics serves students preparing for related specialized professions (honours, specialization, co-operative) as well as those interested in a generalized understanding of the discipline (major, minor programs).

Programs

Students are responsible for satisfying their particular degree requirements.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

The superscript indicates credit value.

NOTE: Calculus I is a prerequisite for many Economics courses. Students who have not taken MATH 209 or equivalent must take it as an elective within their first 15 credits.

*Undergraduate Program Director
CAROL CHUI-HA LAU*

BA DEGREE PROGRAMS IN ECONOMICS

60 BA Honours in Economics

Stage I

6 * ECON 201³, 203³

6 ** ECON 221³, 222³

Stage II

6 ECON 301³, 302³

6 ECON 303³, 304³

6 ECON 325³, 326³

3 ECON 324³

3 Chosen from ECON 318³, 319³

Stage III

6 ECON 401³, 403³

6 ECON 421³, 422³

12 400-level ECON elective credits

60 BA Specialization in Economics

Stage I

6 *ECON 201³, 203³

6 **ECON 221³, 222³

Stage II

6 ECON 301³, 302³

6 ECON 303³, 304³

3 Chosen from ECON 318³, 319³

6 ECON 324³, 325³

3 300-level ECON elective credits

Stage III

3 ECON 421³ or 423³

21 400-level ECON elective credits

42 BA Major in Economics

Stage I

6 *ECON 201³, 203³

6 **ECON 221³, 222³

Stage II

6 ECON 301³, 302³

6 ECON 303³, 304³

3 Chosen from ECON 318³, 319³, 324³

3 300-level ECON elective credits

Stage III

12 400-level ECON credits

30 Minor in Economics

Stage I

6 *ECON 201³, 203³

Stage II

6 ECON 318³, 319³

6 200- or 300-level ECON elective credits

Stage III

12 300- or 400-level ECON elective credits

*Students exempted from ECON 201 and/or 203 are required to replace these courses with ECON elective credits.

**Any equivalent six credits satisfy this component of the program. See §200.7.

24 Minor in Analytical Economics

NOTE: MATH 203 or 209; MAST 221; or equivalent are prerequisites for this program. ECON 201, 203, and 325 are waived as prerequisites only for those courses which are taken as part of the minor.

- 3 ECON 222³
- 12 ECON 301³, 302³, 303³, 304³
- 3 Chosen from ECON 318³, 319³
- 3 ECON 324³
- 3 Chosen from ECON 421³, 423³

NOTE: This program is intended for students in Science, Mathematics/Statistics, or Engineering.

BCOMM DEGREE PROGRAMS IN ECONOMICS

- **BComm Major in Economics**
(See §61.60)

BUSINESS STUDIES

- **Certificate in Business Studies**
- **Minor in Business Studies**
(See §61.140)

Economics Co-operative Program

Director

MICHAEL SAMPSON, Associate Professor

The Economics co-operative program is offered to students who are enrolled in the BA Honours or Specialization in Economics. Students interested in applying for the Economics co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is identical to that of the regular program, but six study terms are interspersed with three work terms. Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format.

Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Economics co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ECON 201 Introduction to Microeconomics (3 credits)

Introduction to the functioning of the market system; concepts of supply and demand, the role of prices in resource allocation; production decisions by firms. Analysis of differences between competition and monopoly, and the implications for economic efficiency; theories of labour markets and wage determination.

NOTE: Students who have received credit or exemption for ECON 200 may not take this course for credit.

ECON 203 Introduction to Macroeconomics (3 credits)

An introductory analysis of aggregate economic activity. The focus is on the principles of determination of the level of employment, national income, real output, inflation, and international balance of payments. The course also analyzes the principles which govern trade relations among countries. These topics are integrated by a discussion of government monetary and fiscal policies to stabilize economic activity.

NOTE: Students who have received credit or exemption for ECON 200 may not take this course for credit.

ECON 221 Statistical Methods I (3 credits)

Prerequisite: Cegep Mathematics 311 or MATH 201 or 206. This course examines elementary probability, permutations and combinations, binomial and normal distribution, as well as analysis and organization of economic data, tests of hypotheses, confidence limits, introduction into linear regression and correlation with applications to economics. *NOTE See §200.7*

ECON 222 Statistical Methods II (3 credits)

Prerequisite: ECON 221; MATH 203 or 209; or equivalent. The course is an introduction to the application of statistical techniques to economic data. Topics discussed include time series, statistical inference, analysis of variance, correlation, regression, and access to economic databases. *NOTE See §200.7*

ECON 251 Economic History Prior to the Industrial Revolution (3 credits)

This course is an introduction to the economic development of the Western world prior to the Industrial Revolution. The emphasis is on economic factors in history: evolution of economic systems, economic growth, development and regression within the context of changing institutional constraints. Interconnections among economic, social, and intellectual change are highlighted.

NOTE: Students who have received credit for ECON 250 may not take this course for credit.

ECON 252 *Economic History After the Industrial Revolution* (3 credits)

This course is an introduction to the main economic trends in the era of sustained growth and development which accelerated with the Industrial Revolution and continues to the present. The emphasis is on Europe with some coverage of North America and the colonial/ developing world.

NOTE: Students who have received credit for ECON 250 may not take this course for credit.

ECON 298 *Selected Topics in Economics* (3 credits)

ECON 299 *Selected Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ECON 301 *Intermediate Microeconomic Theory I* (3 credits)

Prerequisite: ECON 201, 203; MATH 203 or 209 or equivalent. Theory and measurement of demand, theory of consumer behaviour, production, theory of the firm, and cost and revenue analysis.

ECON 302 *Intermediate Microeconomic Theory II* (3 credits)

Prerequisite: ECON 301. Market structures (perfect competition, monopoly, oligopoly), industrial concentration, factor markets, income distribution, economic efficiency, general equilibrium, welfare economics.

ECON 303 *Intermediate Macroeconomic Theory I* (3 credits)

Prerequisite: ECON 201, 203; MATH 203 or 209 or equivalent. The course introduces basic aggregative models to explore different theories on the determination of national income, interest rates and exchange rates. Topics covered include the definitions and measurements of indicators of economic activity; the components of aggregate supply and aggregate demand; the supply and demand for money; and the dynamics of national debt and deficit. The role of macroeconomic policy, such as fiscal and monetary policy, is also examined.

ECON 304 *Intermediate Macroeconomic Theory II* (3 credits)

Prerequisite: ECON 303. This course builds on the concepts developed in ECON 303 by introducing additional features to the basic models, such as the formation of expectations and attributes of the labour market, and then using these models to explore different theories concerning the determination and the evolution of major aggregate variables, economic growth and business cycles. The role of macroeconomic policy, with an emphasis on Canada, is also examined.

ECON 311 *Economic Development* (3 credits)

Prerequisite: ECON 201, 203. The course investigates comparative economic development, with special attention to problems of capital formation, population growth, quality of labour force, and social and cultural attitudes towards economic modernization. Theories of economic development are evaluated in the context of the realities of historical patterns and the varying degrees of ability to achieve modernization.

ECON 318 *Canadian Economic Policy and Institutions* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on economic policies and institutions related to contemporary issues in the domestic economy. It is guided by the application of economic principles to such issues as regional disparities, income distribution and inequality, intra-provincial trade, social security policies, welfare programs, foreign ownership and control, competition policy, government regulation of business, unemployment, inflation, and environmental policy.

NOTE: Students who have received credit for ECON 316 may not take this course for credit.

ECON 319 *International Economic Policy and Institutions* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on economic policies and institutions related to issues such as protectionism, regionalism, and globalization. Selected topics in exchange rate and currency convertibility, liberalization of economic systems, and international economic development are also covered.

NOTE: Students who have received credit for ECON 317 may not take this course for credit.

ECON 324 *Economic Data Analysis* (3 credits)

Prerequisite: ECON 201, 203, 222. The objective of this course is to familiarize students with the techniques of data retrieval, manipulation, and analysis. Particular emphasis is placed on the CANSIM retrieval system, database programs, spreadsheet analysis, and statistical packages. Students learn how to apply the linear regression model to economic data.

NOTE: Students who have received credit for ECON 323 may not take this course for credit.

ECON 325 *Mathematics for Economists I* (3 credits)

Prerequisite: ECON 201, 203; MATH 203 or 209 or equivalent. This course introduces students to core topics in algebra and optimization techniques. The topics covered include vector spaces and linear transformations; matrix operations; characteristic values and vectors; matrix differentiation. In addition, the course covers a review of constrained and unconstrained optimization with economic applications; Taylor series representation, implicit function theorem, and related topics.

NOTE: Students who have received credit for MAST 234 or MATH 251 may not take this course for credit.

ECON 326 *Mathematics for Economists II* (3 credits)

Prerequisite: ECON 325. This course covers more advanced topics in optimization methods and introduces students to techniques in economics dynamics, as well as applications of integration. Topics include quadratic forms and second-order

conditions, Kuhn-Tucker theory, the maximum principle, difference and differential equations, discounting and the rudiments of probability theory.

NOTE: Students who have received credit for MAST 235, MATH 252 or 283 may not take this course for credit.

ECON 331 *Money and Banking* (3 credits)

Prerequisite: ECON 201, 203. Overview of a monetary economy: nature, forms, and the economic role of money. Monetary standards: markets, prices, and the value of money; the payments system; financial markets. Determinants of size and distribution of wealth portfolios. Supply of money: measure, composition, and size determination. The economic role of commercial banks and non-bank financial intermediaries. Central banking and monetary policy. The international monetary system. (Topics covered within the Canadian banking institutional framework.)

ECON 337 *Public Sector Economics* (3 credits)

Prerequisite: ECON 201, 203. This course examines government fiscal activity within the context of a market economy. Rationale for public intervention is reviewed in terms of market failure and the consequent inefficiency in resource allocation. An overview of the spending and taxation policies in the Quebec-Canada context is presented. This is followed by an examination of topics such as public-spending growth, public goods, externalities and collective decision making.

NOTE: Students who have received credit for ECON 335 or 336 may not take this course for credit.

ECON 350 *Economic History of Canada* (3 credits)

Prerequisite: ECON 201, 203. This course introduces the student to Canadian economic development focusing on the period after Confederation. The course treats the subject in a thematic, rather than a chronological, fashion and places emphasis on conflicting schools of thought and their reflection in government policies.

NOTE: Students who have received credit for ECON 351 may not take this course for credit.

ECON 361 *Industrial Organization* (3 credits)

Prerequisite: ECON 201, 203. This course develops the relationship of the firm to various forms of market structure. The course focuses on the objectives of the corporation, corporate interdependence, and the government control of industry. A study of policy matters centres on anti-trust and corporate regulation, with respect to both the legislative and economic aspects.

ECON 362 *Economics of the Firm* (3 credits)

Prerequisite: ECON 201, 222. This course stresses the application of economic principles and methodologies to the decision-making process of the firm, with an emphasis on the role of risk and uncertainty. Topics include decision-making criteria, demand analysis and estimation, cost analysis and estimation, pricing theory under various market structures, applied topics in pricing, and the impact of government on the firm. This course is primarily of interest to Commerce students, but is open to others as well.

ECON 377 *The Asia-Pacific Rim Economies* (3 credits)

Prerequisite: ECON 201, 203. This course focuses primarily on those Asia-Pacific Rim countries that have achieved relatively high growth, and have undergone significant economic transformations over the past two decades. Among other things, it investigates China's transformation towards a market economy, Japanese industrial development strategies, and economic development in Taiwan and South Korea. As well, institutions and associations that reinforce these trends will be studied.

ECON 379 *The Irish Economy and the European Union* (3 credits)

Prerequisite: ECON 201, 203. This course has a dual objective: to examine economic developments and recent growth in the Irish economy, and to examine the structure and importance of Ireland's participation in the European Union in a global and European context. Particular issues addressed are: high growth in developed economies, migration, taxation policy, integration and trade, currency areas and capital mobility.

NOTE: Students who have received credit for this topic under an ECON 398 number may not take this course for credit.

ECON 381 *Labour Economics* (3 credits)

Prerequisite: ECON 201, 203. The general objective of this course is to acquaint the student with various theoretical and empirical issues in the area of labour economics. Particular emphasis is placed upon the relation between theoretical frameworks and their empirical counterparts in Canada. Topics include the theory of wage determination, the effects of minimum wages, human capital theory, the economics of discrimination, and the economics of the household.

ECON 382 *Industrial Relations I* (3 credits)

Prerequisite: ECON 201, 203. A study of the general and practical problems that arise in the labour field, such as collective bargaining, the legal framework for the settlement of industrial disputes, the weapons of industrial conflict; the labour movement; contemporary labour issues, such as automation, cost-push inflation, and structural employment.

ECON 386 *Economics of Human Resources* (3 credits)

Prerequisite: ECON 201, 203. A study of recent contributions by economists to the understanding of and solution to social problems which society currently faces in the areas of crime, health, education, and welfare. In addition, specific federal and provincial governmental policies in these areas are analyzed with the standard tools of economics.

ECON 391 *Economics of the Environment* (3 credits)

Prerequisite: ECON 201, 203. The subject of this course is environmental quality. It proceeds through an analysis of the relationships among the natural environment, economics, and institutions. The objective is to depict the problem of environmental quality as an economic problem whose solution demands major changes in economic, political, and legal institutions. Attention is also given to

policies of collective environmental actions in which the effective management of common property resources is discussed. The course concludes with a discussion of some broader issues, such as the consistency of improved environmental quality with continued economic and population growth.

ECON 392 *Urban Economics* (3 credits)

Prerequisite: ECON 201, 203. This course focuses on the basic issues of economic growth and stagnation, urban land use, the problems of the urban public economy, and special urban problems, such as transportation, congestion, poverty, housing, urban renewal, and zoning.

ECON 393 *Economics of Uncertainty* (3 credits)

Prerequisite: ECON 201, 203, 222. This course focuses on the basic rules governing the application of statistical concepts such as means, variances, covariances, to the economic aspects of the problem of uncertainty. Applications in micro-economic analysis include economic aspects of insurance as well as issues in finance such as portfolio selection, efficient markets, and the capital-asset pricing models. Applications in macroeconomics include the analysis of business cycles and problems associated with the characterization of expectations as in models of inflation.

NOTE: Students who have received credit for this topic under an ECON 398 number may not take this course for credit.

ECON 398 *Selected Topics in Economics* (3 credits)

ECON 399 *Selected Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ECON 401 *Advanced Microeconomic Theory* (3 credits)

Prerequisite: ECON 222, 302, 326. Selected topics in microeconomic analysis including methodology, general equilibrium analysis, welfare economics; theory of the firm, factor pricing, and income distribution capital theory. Primarily for major, specialization, and honours students.

ECON 403 *Advanced Macroeconomic Theory* (3 credits)

Prerequisite: ECON 222, 304, 326. Selected topics in macroeconomic analysis including construction of models of the economy encompassing the labour, product, and financial markets; the role of monetary and fiscal policies; classical, Keynesian, and post-Keynesian models. Primarily for major, specialization, and honours students.

ECON 409 *History of Early Economic Thought* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers the evolution of economic thought from the Greek philosophers up to (and including) Classical economics. It seeks to provide the student with an outline of the development of economic analysis in this period.

NOTE: Students who have received credit for ECON 408 may not take this course for credit.

ECON 410 *History of Modern Economic Thought* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers the evolution of economic thought from the Historical School to modern controversies in economic reasoning, which includes a comparative treatment of Keynesian economics and Monetarism.

NOTE: Students who have received credit for ECON 408 may not take this course for credit.

ECON 413 *Economic Growth and Fluctuations* (3 credits)

Prerequisite: ECON 222, 302, 304. A review of some theories of causes of economic fluctuations. Discussion of the economic climate and of stabilization policies.

ECON 414 *Economic Development: Policy Analysis* (3 credits)

Prerequisite: ECON 222, 302, 304. This course offers an advanced treatment of selected topics related to issues in economic development. Particular emphasis is placed on models of growth and structural change, such as the two-gap model, input-output analysis, and computable general equilibrium models. Trade and industrial policies, fiscal and financial policies, as well as public-sector policies including taxation, spending, and cost-benefit analysis are also discussed.

NOTE: Students who have received credit for ECON 312 or 411 may not take this course for credit.

ECON 421 *Econometrics I* (3 credits)

Prerequisite: ECON 324, 325 or equivalent. This course develops the simple and multiple classical regression models. The problems of mis-specified structures, multi-collinearity, and forecasting are also presented.

ECON 422 *Econometrics II* (3 credits)

Prerequisite: ECON 421. This course is a continuation of ECON 421. It deals with the problems of random-error correlation, stochastic regressors, and the simulation and the estimation of multiple-equation models.

ECON 423 *Applied Econometrics* (3 credits)

Prerequisite: ECON 222, 302, 304, 325 or equivalent. This course is designed to enable students to apply econometric techniques through computer analysis of case studies in model building. Topics include the analysis of aggregate consumption, construction of price indices, the estimation of production and expenditure functions, estimation and forecasting with univariate time series processes, an application with discrete dependent variables.

ECON 425 Mathematics for Advanced Study in Economics (3 credits)

Prerequisite: ECON 222, 302, 304, 326. This course gives students the requisite mathematical background for graduate studies in economics. Topics include algebraic methods, and static and dynamic optimization techniques needed for the study of economic theory and econometrics. Difference and differential equations are also examined.

ECON 432 Advanced Monetary Theory (3 credits)

Prerequisite: ECON 222, 302, 304. The nature of the monetarist-Keynesian controversy and critical appraisal of the IS-LM-AS model. Special topics: theory and evidence of term structure of interest rates, post-Keynesian demand for and supply of money in aggregative and disaggregative economic models. Theory of macroeconomic policy. Transmission mechanisms, policy coordination, lags, international constraints, and other problems.

ECON 433 Financial Economics (3 credits)

Prerequisite: ECON 222, 302, 304, 325 or equivalent. This course introduces students to the theory and practice of finance as seen from the economist's point of view. In particular, it examines the following topics: the theory of decision making under uncertainty; the basic portfolio models, such as the CAPM and the APT; equilibrium aspects of financial markets, such as the role of arbitrage in the pricing of financial assets; the pricing of derivative securities, such as options.

NOTE: Students who have received credit for this topic under an ECON 498 number may not take this course for credit.

ECON 436 The Economics of Taxation (3 credits)

Prerequisite: ECON 222, 302, 304. This course focuses on the effects of taxation on economic behaviour. Major topics considered include the excess burden of taxation in decisions to supply effort, savings and investment, the incidence of corporate taxation, and the design of commodity taxation. Among policy issues, topics such as tax evasion, and the taxation of multinational enterprises are examined.

NOTE: Students who have received credit for ECON 435 may not take this course for credit.

ECON 437 Economics of Public Expenditure (3 credits)

Prerequisite: ECON 222, 302, 304. This course examines the economic consequences of public expenditure on the economy. Topics covered include public goods, externalities, the theory of welfare measurement, public investment criteria, pricing policy of public enterprises, public choice and intergovernmental fiscal relations.

NOTE: Students who have received credit for ECON 435 may not take this course for credit.

ECON 442 International Economics: Trade Theory (3 credits)

Prerequisite: ECON 222, 302, 304. The basis of international trade, gains from trade, factor-price equalization, the tariff, Canadian commercial policy, trade and development, economic integration.

ECON 443 International Economics: Finance (3 credits)

Prerequisite: ECON 222, 302, 304. This course is an introduction to theory of national income determination in open economies with capital mobility. It includes analyses of balance of payments, exchange rate, and the role of monetary and fiscal policies under different exchange rate regimes. Among other issues covered are international policy coordination, optimum currency areas, and features of the international monetary system.

ECON 450 Advanced Economic History (3 credits)

Prerequisite: ECON 222, 302, 304. Advanced topics in economic history, with emphasis on the application of economic theory to specific historical questions.

ECON 461 Industrial Organization (3 credits)

Prerequisite: ECON 222, 302. This course examines departures from the perfect competition paradigm to analyze economic behaviour in an industrial setting. An industry consists of a number of firms which interact strategically to maximize their profits. Topics addressed include measures of market structure, theories of oligopoly, effects of potential entry, product differentiation and advertising, technological change, vertical integration, and monopoly and merger issues.

ECON 462 The Corporate Economy (3 credits)

Prerequisite: ECON 222, 302. This course investigates the nature and behaviour of the firm. Economic rationalizations are presented for organizing production within a firm. The economic effects of various organization structures are examined. Topics addressed include team production, contractual models of the firm, principal-agent theory, tournaments, and the relationship between managers, shareholders, and the outside market.

ECON 463 Economics of Regulation (3 credits)

Prerequisite: ECON 222, 302. This course is devoted to an examination of the economic aspects of governmental regulations. Besides a critical review of the economic theories of regulation, the spectrum of the existing regulatory network, and empirical investigations aimed at discerning cost-benefits, the course focuses on the process of regulatory reforms in all aspects of the Canadian economy.

ECON 464 Game Theory, Information, and Economic Modelling (3 credits)

Prerequisite: ECON 222, 302, 304. This introductory course on game theory is a collection of mathematical tools to model and analyze strategic interactions in a variety of settings, from economic and social situations to politics and international relations. The course focuses on both non-co-operative and co-operative game theoretic modelling, in particular, strategic and extensive form games, Bayesian games, and coalitional games. Students learn to solve games using the concepts of dominant strategies,

Nash-equilibrium, subgame perfection, Bayesian equilibrium, and the core. Applications may include repeated games, auctions, bargaining, oligopoly games, entry deterrence, pricing strategies, and collusion.

ECON 465 *The Economics of Professional Sport* (3 credits)

Prerequisite: ECON 222, 302, 304. This is a course in applied microeconomic theory. Various observations on the state of professional sports are explained using economic theory. Evidence of the statistical relevance of such explanations is also investigated. Issues addressed include the magnitude of the earnings of professional sports stars; the impact of free agency on competitive balance in sports leagues; the value of professional sports teams to cities, and whether such valuation justifies public subsidization of franchises or arenas.

NOTE: Students who have received credit for this topic under an ECON 498 number may not take this course for credit.

ECON 481 *Advanced Labour Economics I* (3 credits)

Prerequisite: ECON 222, 302, 304. The course deals with advanced topics in labour economics. Consequently, a review of microeconomic concepts such as inter-temporal decision-making, uncertainty, moral hazard, adverse selection and market signalling is needed. The following topics are covered: labour supply and demand, wage differentials, human capital theory, employment relationship theory, unions and wage bargaining, job search theory, implicit contracts, and the theory of unemployment.

ECON 482 *Economics of Personnel and Industrial Relations* (3 credits)

Prerequisite: ECON 222, 302, 304. The main objective of this course is to describe how modern microeconomics and modern labour economics can be used to solve practical human resource and personnel issues. These include hiring and firing practices, optimal payment and compensation structure, unions and strike behaviour.

ECON 483 *Advanced Labour Economics II* (3 credits)

Prerequisite: ECON 222, 302, 304. This course covers a series of topics in labour economics. In the first part of the course, students analyze hiring standards of firms, pay and productivity, and the theory of human capital. The second part focuses on mobility and labour market discrimination.

ECON 485 *Health Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course introduces students to the role of economics in health, health care, and health policy. It surveys the major topics in health economics and forms an introduction to the ongoing debate over health care policy. Topics include the economic determinants of health, the market for medical care, the market for health insurance, the role of government in health care, and health care reform.

ECON 491 *Advanced Environmental Economics* (3 credits)

Prerequisite: ECON 222, 302. This course provides a survey, from the perspective of economics, of public issues regarding the use of environmental resources, ecosystems and the management of environmental quality. The course covers both conceptual and methodological topics with recent and current applications. It begins with an introduction to the theory and methods of environmental and natural resource economics and concepts of sustainable development. Then the emphasis is shifted to the optimal use of natural resources, both non-renewable resources (mineral and energy) and renewable resources, and the valuation of environmental resources. In the last part of the course, we examine national and international environmental policy issues, including intergenerational equity and environmental ethics.

ECON 493 *Regional Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course introduces the student to the methods and techniques of regional economic analysis, and their application to the problems of regional economies within Canada. Among the micro-economic topics covered are the location behaviour of firms and households, and the factors determining the allocation of land among alternative competing uses. Macroeconomic topics include the measurement and analysis of regional income and growth levels, cyclical changes in those levels, and interregional differences in growth rates. Policy problems pertinent to Canadian regions are stressed throughout the course.

ECON 495 *Economics of Transportation and Communications* (3 credits)

Prerequisite: ECON 222, 302. Congestion problems and solutions, pricing, costs, demand, and regulation in transportation. Some applications to communications.

ECON 496 *Natural Resource Economics* (3 credits)

Prerequisite: ECON 222, 302, 304. This course focuses on the problems of the finiteness of the natural resources base in Canada and in the world, and on an analysis of the demand for and supply of natural resources and energy. The course also discusses the economic aspects of a selected group of conservation measures (financial incentives, reallocation of property rights, regulation). *NOTE: Students who have received credit for ECON 396 or for this topic under an ECON 498 number may not take this course for credit.*

ECON 497 *Income Distribution and Economic Inequality* (3 credits)

Prerequisite: ECON 222, 302, 304. This course examines the extent and dimensions of economic inequality among households both domestically and internationally. Topics covered include theories of income inequality, wealth inequality, recent trends in polarization, poverty, intergenerational bequests, the welfare state, and the role of government economic policy.

ECON 498 *Advanced Topics in Economics* (3 credits)

ECON 499 *Advanced Topics in Economics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.090

EDUCATION

Faculty

Chair

RICHARD F. SCHMID, PhD *Ariz. State, Professor*

Associate Chair

WILL PENNY, PhD *McG., Senior Lecturer*

Distinguished Professors Emeriti

HAROLD ENTWISTLE, PhD *Lond.*

ELLEN JACOBS, MEd *Tufts*

PATSY M. LIGHTBOWN, PhD *Col.*

Professors

PHILIP ABRAMI, PhD *Manit., Provost's Distinction*

JOYCE BARAKETT, PhD *Montr.*

ROBERT BERNARD, PhD *Wash.*

PAUL BOUCHARD, PhD *Montr.*

AILIE CLEGHORN, PhD *McG.*

MIRANDA D'AMICO, PhD *McG.*

NINA HOWE, PhD *Wat.*

Associate Professors

WALCIR CARDOSO, PhD *McG.*

SAUL CARLINER, PhD *Ga., Provost's Distinction*

LAURA COLLINS, PhD *C'dia.*

ELIZABETH GATBONTON, PhD *McG.*

ARPI HAMALIAN, MA *Amer.of Beirut*

MARLISE HORST, PhD *Wales*

JOANNE LOCKE, MLS *McG.*

SANDRA MARTIN-CHANG, PhD *McM.*

KIM McDONOUGH, PhD *Georgetown*

M. AYAZ NASEEM, PhD *McG.*

HELENA P. OSANA, PhD *Wis.(Madison)*

HARICLIA PETRAKOS, PhD *McG.*

STEVEN SHAW, PhD *C'dia.*

PAVEL TROFIMOVICH, PhD *III.*

DAVID WADDINGTON, PhD *Stan.*

JOANNA L. WHITE, PhD *McG.*

Assistant Professors

ADEELA ARSHAD-AYAZ, PhD *McG.*

SANDRA CHANG-KREDL, PhD *McG.*

ANN-LOUISE DAVIDSON, PhD *Ott.*

SARA KENNEDY, PhD *McG.*

DIANE PESCO, PhD *McG.*

HOLLY RECCHIA, PhD *C'dia.*

VIVEK VENKATESH, PhD *C'dia.*

Senior Lecturer

SARA WEINBERG, MA *C'dia.*

Lecturers

TERESA HERNANDEZ-GONZALEZ, PhD *Complutense Madrid*

HEIKE NEUMANN, MA *C'dia.*

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
J.W. McConnell Building, Room: LB 579
514-848-2424, ext. 2004

Department Objectives

The Department of Education offers general undergraduate programs as well as two teacher-training programs. The general programs focus on educational issues for lifelong learning, while the teacher-training programs are specifically for Early Childhood and Elementary Education and the Teaching of English as a Second Language. Students receive expert supervision in their field placements and are carefully guided in their methods courses. The Department values creativity and innovation in the teaching/learning environment and instills in its students a sense of responsibility with respect to equality, diversity and non-discrimination.

Programs

(For *Teaching of English as a Second Language*, see §31.090.1; for *Adult Education*, see §31.090.2)

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

24 Minor in Education

24 Chosen from EDUC 210⁶, 230³, 240³, 270³, 298³, 299⁶, 305³, 306³, 321³, 398³, 399⁶, 405³, 411³, 422³, 426³, 427³, 450³, 454³, 498³, 499⁶

120 BA Specialization in Early Childhood and Elementary Education

93 Group A

ARTE 201³; EDUC 210⁶, 211³, 222³, 260³, 264³, 295³, 296³, 297³, 301³, 311³, 355³, 380³, 381³, 382³, 384³, 386³, 387³, 388³, 395³, 396³, 400³, 445³, 450³, 454³, 493³, 494³, 495³, 496³; TESL 232³

6 Group B

Chosen from EDUC 230³, 305³, 315³, 321³, 383³, 385³, 405³, 406³, 407³, 411³, 422³, 423³, 426³, 427³, 434³, 498³

21 Group C

Elective credits chosen from a list approved by the Department

NOTE 1: This program is open to full-time students only. In addition to the application submitted to the University, specialization applicants MUST complete an additional application which may be obtained from the Early Childhood and Elementary Education secretary.

NOTE 2: Students may be recommended to the Quebec Teachers Certification Service for a Quebec permanent teaching diploma, valid for teaching kindergarten and cycles 1 to 3 (Grades 1 to 6) provided they have met the following requirements:

1. successfully completing the degree and certification requirements for the BA Specialization in Early Childhood and Elementary Education;
2. satisfying the English language proficiency requirements of the MESRST; and
3. submitting an application to graduate to the Birks Student Service Centre.

To remain in the Early Childhood and Elementary Education Specialization program and to be recommended for certification, students must:

1. achieve at least a "B" grade in each of the following practicum courses: EDUC 295, 296, 297, 395, 396, 493, 494, 495, 496; and
2. achieve at least a "C+" grade in each of the following methods courses: EDUC 222, 301, 355, 380, 381, 382, 383, 384, 385, 386, 387, 388.

Students who obtain a grade that is below the above required level will be placed on conditional standing within the program and will be so informed in writing. Students will be allowed to repeat the course in question only once, the next time the course is given, in order to achieve the required grade. (For the status of this grade as part of the student record, see §16.3.13.)

Students who fail to achieve the above minimum grades in two internships/methods courses (i.e. failing the same internship/methods course twice or two different internships/methods courses) cannot continue in the program and will be required to withdraw from the Early Childhood and Elementary Education Specialization program (see §16.3.13).

45 BA Major in Child Studies

24 EDUC 210⁶, 211³, 250³, 260³, 311³, 374³, 492³

9 From area of primary concentration*

6 From area of secondary concentration*

6 Chosen from EDUC 230³, 315³, 321³, 406³, 411³, 422³, 426³, 498³

*See areas of concentration.

Areas of Concentration

- A. *Administration in Childhood Settings* (9 credits)
9 EDUC 302³, 303³, 402³
- B. *Exceptional Children in Childhood Settings* (9 credits)
9 EDUC 450³, 490³, 491³
- C. *Children and Technology* (9 credits)
9 EDUC 305³, 306³, 405³

For other programs which may be of particular interest to teachers, see §23.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

EDUCATION

EDUC 200 English Exam for Teacher Certification (0 credit)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization, Teaching English as a Second Language Specialization, or Art Education Specialization. The regulation governing the awarding of teaching authorization of the Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST) requires that all students admitted to a teacher education program demonstrate their proficiency in the language of instruction as a condition for certification. To fulfill this requirement, students are required to register and write the exam approved by the MESRST. Students must pass this exam prior to the start of the following internships: EDUC 493, TESL 486 or 487, and ARTE 423.

EDUC 201 The Nature and Function of Teaching (6 credits)

An introduction to the purpose, theories, and methods of teaching.

EDUC 210 Psychology of Education (6 credits)

This course introduces students to a broad range of content in educational psychology, including its scope and methods, learning motivation, growth and development, adjustment, individual differences, guidance, and concept of self.

EDUC 211 Child Development I (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies. This course provides an introduction to current theory (e.g. cognitive, social-cognitive, social learning) about children's development and covers various domains of development (social, emotional, cognitive, physical) from conception to age 12. The implications of children's development in relation to various contexts (e.g. family, neighbourhood, peers, education) are discussed.

EDUC 222 Exploring Movement with Children (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization. From a multidisciplinary perspective, this course examines the following topics: the relationship between movement and self-knowledge, psychomotor development, and the role of physical activity in primary education. The course addresses the teacher's role in incorporating movement into the curriculum for all children, including those with special needs through the use of specific techniques and activities.

EDUC 230 Introduction to Philosophy of Education (3 credits)

This course introduces the student to the content and form of several major educational theories, and to conceptual and logical procedures of philosophizing about education, with particular reference to teaching and learning.

NOTE: Students who have received credit for EDUZ 230 may not take this course for credit.

EDUC 240 Introduction to Training and Development (3 credits)

This course provides an overview of the design and development of training in organizations by introducing students to theoretical and practical concepts. Topics explored include the organizational and personal benefits of training, different modes of delivery including e-learning (an instructional systems design approach to training development), the transfer of learned skills to the workplace environment, the evaluation of training, the management of the development process, and trends and successful practices in the field.

NOTE: Students who have received credit for this topic under an EDUC 298 number may not take this course for credit.

EDUC 250 Library Research Practices in Education (3 credits)

This course is designed to introduce students to basic library research practices used in the field of education and its related disciplines. It familiarizes students with a variety of information sources in both print and non-print formats. Emphasis is placed on a systematic search strategy and the use and evaluation of these information tools. Topics such as outlining and bibliographic formats are covered as part of the library research process.

NOTE: Students who have received credit for LIBS 250, INST 250, INSZ 250, or for this topic under an LIBS 298 number, may not take this course for credit.

EDUC 260 Historical and Philosophical Foundations of Early Childhood and Elementary Education (3 credits)

Prerequisite: 30 credits or permission of the Department; enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies. This course is an introduction to the historical and philosophical foundations of early childhood education.

The development of institutions for the care and education of young children is discussed in relation to changes in the family, concepts of childhood, and educational theories. Students use methods of historical and philosophical inquiry to examine current issues in early education, including school readiness, early literacy, integration, multiculturalism, and public policy. The objective is to provide students with the basis for identifying and critiquing problems in education.

EDUC 264 *Communication: Child, Parent and Teacher* (3 credits)

Prerequisite: 30 credits or permission of the Department; enrolment in Early Childhood and Elementary Education Specialization. This course focuses on the role parents play in the various stages of the child's academic, social, and emotional development. The format for this course is unique in that parents of the children in the observation nursery are involved, and students interact with them by conducting and participating in parent-teacher seminars. Topics include parenting, the impact of the family on the child's classroom behaviour, child abuse, cultural issues, disciplinary measures at home and in school, the coordination of home-and-school academic goals, and achievement motivation.

EDUC 270 *Educational Communication* (3 credits)

In this course, students study fundamental communication skills used by effective instructors. By examining how to write the most basic types of instructional content, including definitions, objectives, descriptions and procedures, and the most common forms of written instructional content, including how-to articles and lesson plans, this practical, writing-intensive course emphasizes effective instructional communication methodologies.

NOTE: Students who have received credit for this topic under an EDUC 298 number may not take this course for credit.

EDUC 295 *Internship I: Prekindergarten Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; students must be enrolled in EDUC 296 in the same term and in their first year of the ECEE program. This internship gives students first-hand knowledge of the importance of early education. It permits students to develop preliminary skills in observing, assessing, and meeting the needs of individual children, articulating educational objectives, working effectively with small groups, and planning and implementing a play-based curriculum. Students are placed in a prekindergarten class one day a week for a total of 60 hours.

NOTE: Students who have received credit for EDUC 271 may not take this course for credit.

EDUC 296 *Prekindergarten Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; students must be enrolled in EDUC 295 in the same term. This course supports EDUC 295 by offering a thorough introduction to theoretical and applied aspects of early childhood education through a weekly seminar consisting of lectures, discussions, and video presentations on such topics as the educational and developmental needs of young children, models of education, the role of the teacher, play-based curriculum and instruction, health and safety issues, and the design of appropriate prekindergarten learning environments.

NOTE: Students who have received credit for EDUC 272 may not take this course for credit.

EDUC 297 *Internship II: Observation and Evaluation in Education* (3 credits)

Prerequisite: EDUC 295, 296; enrolment in Early Childhood and Elementary Education Specialization. The purpose of this course is to teach students how to conduct evaluations at the elementary-school level. Students learn observation techniques, documentation procedures, authentic assessment, and formative and summative evaluation. Students learn how to create a dynamic profile of the child and how to prepare reports for parents, administrators, and specialists. Students conduct observations in recognized educational institutions (40 hours).

NOTE: Students who have received credit for EDUC 371, 373, and 375 may not take this course for credit.

EDUC 298 *Selected Topics in Education* (3 credits)

EDUC 299 *Selected Topics in Education* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EDUC 301 *Integrating Computers into the Elementary Classroom* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization. This course provides an introduction to theoretical and practical knowledge regarding the use of computers in elementary school classrooms. Assignments are designed to provide students with hands-on experience with the computer. Topics include social interaction and equity, problem-solving skills, software evaluation, interactive technologies, and curriculum planning.

NOTE: Students are expected to have some basic computer skills (at least word processing) prior to enrolling in this course. Students with no previous experience in using computers are advised to take INTE 290 before enrolling in this course.

EDUC 302 *Administration in Childhood Settings* (3 credits)

This course provides students with a foundation in administering services for children with a focus on child care. Issues reviewed include quality, the role of government, curriculum, staffing, leadership styles, financial matters, and the organizational framework.

EDUC 303 *Children, Families, and Social Policy* (3 credits)

This course examines social policy as it relates to children and families in Canada. Policies may include such areas as children's rights, child care, education, health, and social welfare.

EDUC 305 *Technology for Educational Change I* (3 credits)

Prerequisite: INTE 290 or permission of the Department. This course provides an introduction to advances in the theory, research, and practice of educational technology. Projects and activities allow for a diversity of interests.

EDUC 306 *Technology for Educational Change II* (3 credits)

Prerequisite: EDUC 305. This course is intended for students who wish to advance their media design and development skills. Building on the theoretical and practical foundations established in EDUC 305, this course provides students with an opportunity to design and develop an instructional package aimed at addressing an identified instructional need.

EDUC 311 *Child Development II* (3 credits)

Prerequisite: EDUC 211; enrolment in Early Childhood and Elementary Education Specialization, or Major in Child Studies; 30 credits. This course is designed to provide students with an in-depth review of the developmental, psychological, and socio-cultural aspects of the child and the family. Emphasis is placed on structural elements related to the modern family (e.g. family size, developmental tasks), family relations (e.g. transition to parenthood, parenting styles, early relationships) and problems and issues (e.g. employed mothers, divorce, child care, cultural differences, teenage mothers).

NOTE: Students who have received credit for EDUC 262 may not take this course for credit.

EDUC 315 *Sexual Health Education for Children and Youths* (3 credits)

Prerequisite: Enrolment in the Specialization in Early Childhood and Elementary Education; or 30 university credits and enrolment in the Major in Child Studies or the Minor in Interdisciplinary Studies in Sexuality. By evaluating available resources, practical tools, and curricula in today's Canadian society, this course familiarizes students with approaches to sexual health education that are suitable for working with children and youth in a variety of educational settings, including the home, community agencies, and schools. The importance of gearing education to accommodate different developmental stages, ages, and local social contexts is stressed.

EDUC 321 *Sex Role Socialization in the School* (3 credits)

This course focuses upon how children at the elementary- and secondary-school level are socialized for different work roles, and how work segregation has occurred on the basis of this process. The role of schools and curriculum is examined in relation to cultural changes in social roles.

EDUC 355 *Teaching Ethics and Religious Culture* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization. This course enables students to develop a stimulating and sensitive ethics and religious culture program that promotes children's ability to (a) reflect on ethical questions, (b) demonstrate an understanding of the phenomenon of religion, and (c) engage in dialogue with others. Relevant resource materials are examined and assignments focus upon development of activities for the elementary-level classroom.

NOTE: Students who have received credit for THEO 355 may not take this course for credit.

EDUC 374 *Child Studies Field Experience: Child and Youth Settings* (3 credits)

Prerequisite: 30 credits in the major program; EDUC 302 (recommended). This course is designed to provide students with experience in working with groups of young children and with strategies and techniques to critically examine their own practice and that of experienced educators. The course material focuses on learning how to employ different observational techniques, as well as guiding students in reflective practices so as to connect their fieldwork to theory in child studies. Students are required to participate in a one half-day per week field placement in addition to the regularly scheduled class time. Possible field placements for this course include recreation/community centres, hospitals, daycare centres, libraries, museums, and fine arts centres.

NOTE: Students who have received credit for EDUC 371 may not take this course for credit.

EDUC 380 *Teaching Language Arts I* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course enables students to acquire the necessary skills for developing a stimulating and appropriate language arts program for kindergarten and primary grades. Current theories of literacy development and implications for planning and instruction are addressed. The course focuses on listening, speaking, reading, and writing, emphasizing the integration of language arts activities into other subject areas.

EDUC 381 *Teaching Language Arts II* (3 credits)

Prerequisite: 30 credits including EDUC 380; enrolment in Early Childhood and Elementary Education Specialization. This course is a continuation of EDUC 380 with special emphasis on teaching language arts in Grades 3 to 6. Students become familiar with MESRST program guidelines, and various ways to organize and evaluate their implementation.

EDUC 382 *Teaching Science Concepts in the Elementary Classroom* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course examines areas of science which are relevant to elementary education and emphasizes the development of the spirit of scientific inquiry. Resource materials, teaching methodology, and classroom activities are examined and evaluated in light of the MESRST guidelines. Assignments emphasize developing activities for classroom use.

EDUC 383 *Promoting Moral and Spiritual Attitudes and Values in Children* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course is designed to introduce students to the various issues involving the development of moral judgment and reasoning in children. Cultural, social, cognitive, and emotional factors influencing the growth of morality are discussed. The major focus is on examining methods and techniques to enhance the personal development of positive social behaviours (i.e. helping, sharing, and caring).

EDUC 384 *Teaching Social Studies in Elementary Schools* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course examines the teaching of social studies to elementary-school-age children.

EDUC 385 *Teaching a Second Language in Early Childhood and Elementary School* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization. This course is designed to give teachers a background in current theories of language acquisition and second language learning. Teaching methodologies such as immersion, enrichment, and core/complementary curricula are studied and resource materials are examined and evaluated. Assignments include the development of appropriate classroom activities at the elementary level.

EDUC 386 *Teaching Mathematics I* (3 credits)

Prerequisite: 15 credits; enrolment in Early Childhood and Elementary Education Specialization. This course introduces a conceptual analysis of school mathematics and its application to the early childhood and elementary education classrooms. Topics include numeracy acquisition, counting, whole number operations, and problem solving. Emphasis is placed on the development of children's thinking and pedagogical practices aimed at assisting students to think mathematically. Current mathematics curricula are examined and evaluated in this context.

EDUC 387 *Teaching Mathematics II* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization; EDUC 386. This course continues a conceptual analysis of school mathematics and its application to the elementary classroom. Topics include fractions, decimals, proportions, per cents, algebraic reasoning, and geometry. Emphasis is placed on the development of children's thinking and pedagogical practices aimed at assisting students to think mathematically. Current mathematics curricula are examined and evaluated in this context.

EDUC 388 *Teaching Mathematics III* (3 credits)

Prerequisite: 30 credits; enrolment in Early Childhood and Elementary Education Specialization; EDUC 387. This course continues a conceptual analysis of school mathematics and its application to the elementary classroom. Topics include algebra, geometry, probability, statistics, and data analysis. Emphasis is placed on the development of children's thinking and pedagogical practices aimed at assisting students to think mathematically. Current mathematics curricula are examined and evaluated in this context.

EDUC 395 *Internship III: Kindergarten Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 30 credits including EDUC 295, 296, 297; students must be enrolled in EDUC 396 in the same term. This internship is an eight-week (200 hours) supervised student-teaching experience in a full-day kindergarten classroom. Students share in the daily work of their co-operating teachers, and progress gradually from being participant observers working with small groups to taking charge of the whole class. Students practise their skills in activity planning, intervention strategies, the evaluation of student learning, and the management of classroom routines.

NOTE: Students who have received credit for EDUC 473 may not take this course for credit.

EDUC 396 *Kindergarten Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 30 credits including EDUC 295, 296, 297; students must be enrolled in EDUC 395 in the same term. This seminar complements EDUC 395 by providing the opportunity, means, and impetus for students to reflect critically on their teaching philosophy and practice. Topics include the development of appropriate and stimulating learning environments, Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST) kindergarten program guidelines, planning and implementation of learning centres, teaching centres, teaching the "whole" child, teacher-parent relationships, and other current issues in kindergarten education.

NOTE: Students who have received credit for EDUC 474 may not take this course for credit.

EDUC 398 *Selected Topics in Education* (3 credits)

EDUC 399 *Selected Topics in Education* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EDUC 400 *Teaching Across the Curriculum* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; EDUC 380. Using language arts and the social sciences as the starting point, this course outlines different models for integrating school subjects in curriculum programming. Special attention is given to social science methodology, thematic planning and project work, and to the use of literature and drama. Students examine the links between the different programs of study developed for Quebec schools by the MESRST, and their overall implications for curriculum planning.

EDUC 402 *Diversity Issues in Childhood* (3 credits)

Prerequisite: 30 credits. This course explores the diversity of contemporary Canadian childhood, including issues related to immigrant children and families, multilingual issues, and cultural differences in child-rearing. The course reviews theoretical and applied approaches for providing services to children and families from culturally diverse backgrounds.

EDUC 405 *Children and Technology* (3 credits)

Prerequisite: 30 credits. This course examines the interaction between children and technology from a socio-cultural perspective, including the effects of media such as television, computers, and the Internet. Emphasis is placed on the developing child in the context of communication and technology as related to informal educational activities and play.

EDUC 406 Educational Aspects of Physical Activity, Health and Wellness (3 credits)

Prerequisite: EDUC 210 or PSYC 200 or equivalent; 30 credits. This course examines the promotion of physical health and well-being of both adults and children. Using an educational approach, principles from the Psychology of Sports, including stress management, motivation, mental training and goal-setting serve as the foundation from which students learn how to enhance sport or exercise performance and general lifeskills.

EDUC 407 Enhancing Performance in Sport and Exercise (3 credits)

Prerequisite: Enrolment in an Education program or permission of the Department. The course covers the application of theory, research, and practice in the field of sport and exercise psychology. Topics covered include attention and concentration, anxiety and arousal, psychological skills training (PST), motivation, the psychology of physical activity and children, as well as the psychology of dealing with injury. A major theme is the development of life skills. Goals of the course include acquiring basic knowledge of concepts, theories, and principles related to the psychology of sports and exercise; learning about research and intervention in the field of applying the knowledge to students' own life course.

NOTE: Students who have received credit for this topic under an EDUC 398 number may not take this course for credit.

EDUC 411 Toys, Media Literacy and Children's Popular Culture (3 credits)

Prerequisite: Enrolment in an Education program or permission of the Department. This interdisciplinary course examines the multiple roles that toys and the popular culture of childhood and adolescence can play in relation to development, learning, socialization and identity processes. Topics addressed include cultural and personal meanings constructed around toys, media literacy, the increasing role of new technologies, and issues related to the branding and marketing of toys through the media.

NOTE: Students who have received credit for this topic under an EDUC 498 number may not take this course for credit.

EDUC 422 Sociology of Education I (3 credits)

Prerequisite: 30 credits. This course emphasizes sociological concepts and their theoretical and practical applications to the study of education. The focus is on the following: how the education system is structured, how schooling and education fit into the overall social structure, how educational experiences vary for members of different social groups, the role education plays in gender, class, and racial inequalities, the complexity of issues relating to student evaluation and performance, and the role education plays in social change.

NOTE: Students who have received credit for EDUC 421 may not take this course for credit.

EDUC 423 Sociology of Education II (3 credits)

Prerequisite: EDUC 422. This course considers how a particular sociological viewpoint contributes to our understanding of school life. Topics include family, socialization patterns, teacher and pupil perspectives, and how these are interrelated.

NOTE: Students who have received credit for EDUC 421 may not take this course for credit.

EDUC 426 Comparative Education I (3 credits)

Prerequisite: Six credits in Education. This course undertakes the study of the impact of political and cultural differences upon educational systems (for example, the impact of language differences, nationalism, colonialism, neocolonialism, political socialization). The approach is comparative, with particular emphasis on contrasting educational systems and practice in selected countries.

EDUC 427 Comparative Education II (3 credits)

Prerequisite: Six credits in Education. This course examines the sources and impacts of educational change from a comparative perspective. Topics include pedagogical alternatives; socio-political alternatives; educational implications of technological change and economic policy; policies of elitism and egalitarianism. Methods include comparative case study and analysis of specific theories of educational innovation.

EDUC 432 Seminar in Epistemology and Education (3 credits)

Prerequisite: Six credits in Education, or permission of the Department. Theories of knowledge are considered in this course, with special attention being given to the bearing of such topics as perception, evidence, truth, knowledge, and belief as relating to educational thought and practice. Students are expected to become familiar with recent periodical and other literature in the field.

EDUC 434 Aesthetics and Education (3 credits)

Prerequisite: EDUC 230 or permission of the Department. The nature of aesthetic value and experience, and theories of art and beauty are examined. The development of the emotions and imagination, and their functions in aesthetic awareness are central concerns of this course. Students are expected to become familiar with the relevant literature in the field.

EDUC 445 Education in Quebec (3 credits)

Prerequisite: 30 credits in a teacher certification program, or holder of a provisional teaching authorization, or permission of the Department. This course covers the history, the contemporary movements, and the structures of Quebec education. The historical section covers the period from 1608 until the present. Topics included are the legislation, regulations, rules, and directives pertaining to the respective roles of the Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST), the school boards, the teachers, the parents, and the students in Quebec's educational system.

NOTE: Because this is a required course for all individuals enrolled in a Quebec program of teacher training, the content is controlled by the MESRST.

EDUC 450 The Inclusive Classroom: Educating Exceptional Children (3 credits)

Prerequisite: 30 credits including EDUC 210 or 211. This course focuses on the education of children with special needs. Emphasis is placed on ways in which classroom teachers can provide appropriate help or instruction to meet the needs of

exceptional children. Topics include identification and assessment of learning needs; adaptation of curriculum and activity design, service delivery models; parent-professional relationships; legislative policies.

EDUC 454 *Diversity in the Classroom* (3 credits)

Prerequisite: 30 credits including EDUC 210 or 211. Students examine the implications of diversity in the classroom for teaching, curriculum, and children's educational experience. Various theoretical approaches are analyzed, including critical pedagogy, multicultural education, and intercultural education. The importance of inclusive curricula is discussed.

EDUC 471 *Supervised Internship* (6 credits)

This course is offered only to students enrolled in the Certificate in Education program. Teaching internship is carried out in the school where the student is employed. The students are supervised and their teaching performance evaluated. The students are expected to demonstrate positive evidence of teaching competence and professional behaviour.

EDUC 480 *Special Methods of Teaching — Elementary* (3 credits)

This course is offered only to students enrolled in the Certificate in Education program. It deals with methods of teaching in the elementary school. Emphasis is placed on the practical application of educational theories.

EDUC 481 *Special Methods of Teaching — Secondary* (3 credits)

This course is offered only to students enrolled in the Certificate in Education program. This course deals with methods of teaching in a high school subject. The course is designed to suit the individual student's field of specialization.

EDUC 490 *The Exceptional Child I* (3 credits)

Prerequisite: EDUC 211 or equivalent; 30 credits in Education, or permission of the Department. This course is an introduction to the educational issues concerning children with special needs. The focus is on inclusive childhood settings. Theoretical models, intervention strategies, and advocacy are issues that are explored.

EDUC 491 *The Exceptional Child II* (3 credits)

Prerequisite: EDUC 490, or permission of the Department. This course is an in-depth exploration of children's experience with intellectual, emotional, and physical disability, and specific interventions that can foster coping, healthy development, and family systems approach.

EDUC 492 *Child Studies Field Experience: Adaptations and Accommodations in Special and Inclusive Settings*
(3 credits)

Prerequisite: EDUC 450 (recommended); 30 credits in the major program. This course is designed to provide students with experience in working with children exhibiting a range of developmental, emotional, learning, and social delays. Subject matter is designed to provide links between practical fieldwork and previously studied theory related to the inclusive classroom and children with special needs. Students examine methods of best practice in working with these children, and are required to participate in a one half-day per week field placement in addition to the regularly scheduled class time. Possible field placements for this course include hospitals, elementary schools, and school or community centres for children with psychological, intellectual, or other developmental special needs.

EDUC 493 *Internship IV: Primary Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; EDUC 200 and 60 credits including EDUC 295, 296, 297, 395, 396; students must be enrolled in EDUC 494 in the same term. The internship is an eight-week (200 hours) supervised student-teaching experience in a primary classroom (Grades 1 to 3). Students share in the daily work of their co-operating teachers, and progress gradually from being participant observers working with small groups to taking charge of the whole class as independent, creative practitioners. Students perfect their skills in activity planning, intervention strategies, the evaluation of student learning, and the management of classroom routines.

NOTE: Students who have received credit for EDUC 473 may not take this course for credit.

EDUC 494 *Primary Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 60 credits including EDUC 295, 296, 297, 395, 396; students must be enrolled in EDUC 493 in the same term. The seminar complements EDUC 493 by providing the opportunity, means, and impetus for students to reflect critically on their teaching philosophy and practice. Topics include the development of appropriate and stimulating learning environments, Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST) primary program guidelines, planning and implementation of curriculum units, teacher-parent relationships, and other current issues in primary education.

NOTE: Students who have received credit for EDUC 474 may not take this course for credit.

EDUC 495 *Internship V: Upper Elementary Teaching* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 90 credits including EDUC 222, 295, 296, 297, 301, 380, 381, 382, 383, 385, 387, 388, 395, 396, 493, 494; students must be enrolled in EDUC 496 in the same term. Students are placed in an elementary classroom (Grades 4 to 6) for an eight-week student-teaching experience (200 hours). They are provided with the opportunity to continue to develop their own teaching strategies and enhance their skills in curriculum planning and implementation, preparing and evaluating classroom materials, and monitoring student progress. Students participate in the daily routines and educational duties of their co-operating teachers and become involved in student activities.

NOTE: Students who have received credit for EDUC 475 may not take this course for credit.

EDUC 496 *Upper Elementary Teaching Seminar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education Specialization; 90 credits including EDUC 295, 296, 297, 395, 396, 493, 494; students must be enrolled in EDUC 495 in the same term. The main focus of EDUC 496 is the discussion, review, and analysis of relevant material in the context of students' internship placements. Topics include curriculum development and diversity in the classroom population, involvement of parents in their children's education, Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie (MESRST) guidelines, teaching strategies, self-reflection and evaluation.

NOTE: Students who have received credit for EDUC 476 may not take this course for credit.

EDUC 498 *Advanced Topics in Education* (3 credits)**EDUC 499 *Advanced Topics in Education*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

INFORMATION STUDIES

INST 250 *Introduction to Library Research Practices* (3 credits)

This course is designed to introduce students to basic library research practices. It familiarizes students with a variety of information sources in both print and non-print formats. Emphasis is placed on a systematic search strategy in the use and evaluation of these information tools. Topics such as outlining and bibliographic format are covered as part of the library research process.

NOTE: Students who have received credit for EDUC 250, INSZ 250, or LIBS 250 may not take this course for credit.

LIBRARY STUDIES

LIBS 495 *Field Practice* (3 credits)

Prerequisite: Completion of all other required Library Studies courses. In consultation with the appropriate supervising librarian, the student is placed in a local library system other than the library in which the student is employed. The duration of the field practice is five weeks. Field practice includes a wide variety of library tasks. In addition the student is required to complete a written research project on a topic approved by the professor.

31.090.1 TEACHING OF ENGLISH AS A SECOND LANGUAGE

BEd (Teaching English as a Second Language)

The Centre for the Teaching of English as a Second Language offers the BEd degree (Teaching English as a Second Language).

Admission Requirements (BEd)

General admission requirements are listed in §13 (Admission Regulations). Specific requirements are as follows:

1. Satisfactory completion of a two-year pre-university program in a Cegep or equivalent. Within the program, the students will be required to have successfully completed the equivalent of four semester courses in English.
2. Owing to the specialized nature of this program, no more than 60 transfer credits will be permitted, and the University reserves the right to determine which ones these should be. (See §16.1.3.5.)
3. Applicants must demonstrate competence in English and French through formal tests of proficiency and obtain scores acceptable to the Department of Education.
NOTE I: Arrangements for taking the proficiency tests may be made through the Office of the Registrar.
4. The BEd (TESL) is open to both prospective and experienced teachers and is offered in the day and evening. The internship courses are offered only as daytime, fall/winter courses.

Program

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

120 BEd Specialization in Teaching English as a Second Language

57 TESL 221³, 231³, 326⁶, 330³, 331³, 341³, 351³, 415³, 426³, 427³, 466³, 467³, 471³, 486⁶, 487⁶, 488³

15 EDUC 210⁶, 445³, 450³, 454³

15 ENGL 212³ and 213³, or 396⁶; any nine ENGL credits in English literature, of which three credits must be from Canadian Literature

6 Credits in a third language other than English or French

27 Elective credits chosen from a list approved by the Department

Certificate in the Teaching of English as a Second Language

This 30-credit program is offered to individuals whose native language is English or whose proficiency in English meets native-user standards.

Admission Requirements

1. Applicants must have completed a bachelor's degree.
2. Applicants must demonstrate competence in English through formal tests of proficiency and obtain scores acceptable to the Department of Education.

NOTE I: Arrangements for taking the proficiency tests may be made through the TESL Centre.

Concordia students may transfer into the certificate program all applicable Concordia credits earned in an incomplete degree or certificate program or as an Independent student, provided they are students in good standing. Students from other institutions may transfer up to 12 applicable credits earned in an incomplete degree or certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

The TESL Certificate program is offered in the evening.

NOTE II: Individuals who have completed a prior Concordia University TESL Certificate are not eligible for admission to this certificate.

NOTE III: The Certificate in the Teaching of English as a Second Language does not satisfy the requirements for a Québec brevet d'enseignement : autorisation personnelle permanente (a teaching diploma).

Program

30	Certificate in the Teaching of English as a Second Language
6	ENGL 212 ³ and 213 ³ or 396 ⁶
24	TESL 221 ³ , 231 ³ , 324 ³ , 331 ³ , 341 ³ , 415 ³ , 424 ³ , 433 ³

Information Relevant to Programs in the Teaching of English as a Second Language

NOTE I: Upon successful completion of the BEd (TESL) program and after application to the Office of the Registrar, a graduate may be recommended to the Quebec Teachers Certification Service for a "Brevet d'enseignement : autorisation personnelle permanente" (a teaching diploma). Graduates who wish to teach ESL in francophone schools, the only schools in Quebec where ESL may be taught, must satisfy the French proficiency requirements of the school board to which they apply.

There is no comparable certification process for teaching ESL at the Cegep level — Collège d'enseignement général et professionnel (junior college) or other adult level.

To be recommended for certification, students must achieve at least a "C" grade in methodology and teaching practice courses: that is, TESL 326⁶, 330³, 331³, 426³, 427³, 466³, 467³, 471³, 486⁶, and 487⁶.

Students who obtain a passing grade that is below the level required for recommendation for certification will be placed on conditional standing within the program and will be so informed in writing by the TESL program director. Students will be allowed to repeat the course(s) in question only once in order to achieve the required grade. (For the status of this grade as part of the student record, see Calendar §16.3.13.)

Students who fail to achieve the above minimum grade in two methodology/practice teaching courses (i.e. failing to achieve a grade of "C" in the same methodology/practice teaching course twice or two different methodology/practice teaching courses) will be withdrawn from the Teaching English as a Second Language Specialization program and will also be so informed in writing by the TESL program director (see Calendar §16.3.13).

Students who obtain a failing grade (F, R, or NR) in any of the courses listed above as methodology and practice teaching will be withdrawn from the program and will also be so informed in writing by the TESL program director.

In the event that a student meets regular university standards but does not satisfy the requirements for recommendation for certification, the student may apply to receive the university degree but will not be recommended to the Ministry.

Students must demonstrate proficiency in the language of instruction on an exam recognized by the MESRST prior to the start of their third internship.

NOTE II: Upon admission, students may be granted exemptions from courses in TESL programs if they have completed equivalent work at the university level.

Replacement for these exemptions must be made in accordance with the guidelines established by the Department of Education and approved by the University. Copies of these guidelines may be obtained in the Department of Education.

NOTE III: Students in the TESL Certificate must achieve at least a "C" grade in the Practicum, that is, TESL 433. Students will be allowed to repeat the course in question only once in order to achieve the required grade (see Calendar §16.3.13).

TESL Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

TESL 221 **Phonology for Teachers** (3 credits)

Prerequisite: TESL 231 concurrently. The aim of this course is to provide students with a knowledge of the major features of the English sound system, and to prepare them, through practical teaching assignments with ESL students, to apply this knowledge in the language classroom. Contrasts and comparisons are made with French and other languages.

TESL 231 *Modern English Grammar* (3 credits)

Prerequisite: TESL 221 concurrently. The purpose of this course is to provide students with a current description of the English grammatical system at the text level, to make them aware of grammatical differences between English and French and other major languages, and to alert them to typical grammatical errors made by non-native speakers of English.

NOTE: Students who do not achieve at least a C+ grade in TESL 231 will be placed on conditional standing within the program and will be so informed in writing by the TESL program director. Students will be allowed to repeat this course only once in order to achieve the required grade.

TESL 232 *English Grammar* (3 credits)

Prerequisite: Enrolment in Early Childhood and Elementary Education or Art Education (Visual Arts). The purpose of this course is to familiarize students with the basic concepts and terminology of grammar in general and English grammar in particular, to examine the grammatical structures of English, to provide students with a coherent framework for analyzing English grammar, and to help students identify and correct their own — and their students' errors — in written and spoken English.

NOTE: Students who have received credit for TESL 231 may not take this course for credit.

TESL 298 *Selected Topics in TESL* (3 credits)**TESL 299 *Selected Topics in TESL*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

TESL 324 *Methodology I* (3 credits)

This course reviews current theory in applied linguistics which relates directly to teaching and learning ESL in the classroom. Techniques and methods appropriate to child, adolescent, and adult learners are discussed and demonstrated. In this course the emphasis is on classroom-oriented techniques and materials related to the teaching of listening and speaking.

NOTE: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

TESL 326 *TESL Pedagogy: General* (6 credits)

Prerequisite: TESL 221, 231 previously or concurrently. The purpose of this course is to introduce students to the profession of teaching English as a second language to children, adolescents, and adults. Students examine a variety of approaches and methodologies that have been used in the past and how these have contributed to current thinking and practices. They have the opportunity to observe English-language instruction in a variety of settings through visits and video presentations. They discuss issues related to lesson planning, audio-visual aids, classroom organization and management techniques. Special attention is paid to the creation of lessons appropriate to adult learners. A minimum of 30 hours is spent observing and assisting in adult ESL classes. Assignments include classroom-based projects.

TESL 330 *Computers in Language Learning* (3 credits)

Prerequisite: TESL 221, 231, 326. The purpose of this course is to introduce students to the uses of the computer in the ESL class. Students acquire knowledge of computer applications for language learning and how to incorporate this knowledge into classroom practice.

TESL 331 *Grammar for Teachers* (3 credits)

Prerequisite: TESL 231 with a grade of C+ or better. The purpose of this course is to provide students with current approaches, methods, and materials in the teaching of grammar to children, adolescents, and adults of the ESL classroom. Students will be prepared to analyze critically and modify published classroom materials related to the teaching and learning of grammar.

TESL 341 *Language Acquisition* (3 credits)

Prerequisite: TESL 221, 231 previously or concurrently; or permission of the Department. This course examines sociocultural and psycho-linguistic influences on the acquisition of a first and second language. These issues are examined in relation to the learning and teaching of a second language to children, adolescents, and adult learners.

TESL 351 *History of the English Language* (3 credits)

Prerequisite: TESL 221, 231 with a grade of C+ or better, or permission of the Department; TESL 415, 427, 467 concurrently. The purpose of this course is to provide students with an overview of the significant changes which have taken place in the English language from Proto-Indo-European to the present. Students consider the evolving nature of English and its role as an international language.

TESL 361 *Teaching English for Specific Purposes* (3 credits)

Prerequisite: TESL 324, or permission of the Department. This course provides instruction in the teaching of language skills to those who require English either as an auxiliary to their scientific, technical, or professional skills or as a medium for training in these areas.

TESL 398 *Selected Topics in TESL* (3 credits)**TESL 399 *Selected Topics in TESL*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

TESL 415 Testing, Evaluation and Course Design (3 credits)

Prerequisite: For BEd students: TESL 426 or 427 previously or concurrently; for certificate students: TESL 324 previously or concurrently. The purpose of this course is to prepare students to test and evaluate learners in different types of ESL programs. Students examine syllabi and evaluation systems used in the schools and in adult education settings, and become familiar with placement and proficiency testing materials.

TESL 424 Methodology II (3 credits)

Prerequisite: TESL 324. This course continues the presentation of techniques and methods begun in TESL 324. In this course the emphasis is on classroom-oriented techniques and materials related to the teaching of reading and writing.

NOTE: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

TESL 426 Pedagogy: Primary (3 credits)

Prerequisite: TESL 326; TESL 330, 466, EDUC 210 previously or concurrently. The purpose of this course is to familiarize students with the principles of TESL pedagogy in regular and intensive ESL primary classrooms. This course emphasizes knowledge of MESRST primary-school programs and approved materials. Students learn classroom management techniques, assessment practices, and how to adapt materials to specific primary-school contexts.

TESL 427 Pedagogy: Secondary (3 credits)

Prerequisite: TESL 426, 466; TESL 467 concurrently. The purpose of this course is to familiarize students with the principles of TESL pedagogy in regular and Language Arts (ESL-LA) ESL secondary classrooms. This course emphasizes knowledge of MESRST secondary programs and approved materials. Students learn classroom management techniques, assessment practices, and how to adapt materials to specific secondary-school contexts.

TESL 433 Practicum (3 credits)

Prerequisite: ENGL 213; TESL 331, 341, 415, and 424 either previously or concurrently. This course is open only to students enrolled in the TESL Certificate. In this course, students practise techniques which were introduced in their methodology courses. There are opportunities for observation of ESL classes taught by experienced teachers. Techniques presented in TESL 324 and 424 are practised in micro-teaching, peer teaching, and sessions with groups of ESL students. Requirements include lesson planning and the evaluation of one's own teaching performance.

NOTE I: Students enrolled in the BEd Specialization in Teaching English as a Second Language may not take this course for credit.

NOTE II: Students in the TESL Certificate must achieve at least a "C" grade in this course. Students will be allowed to repeat this course only once in order to achieve the required grade (see Calendar §16.3.13).

TESL 466 Internship: Primary I (3 credits)

Prerequisite: TESL 330, 426, EDUC 210, 454 previously or concurrently. The purpose of this course is to apply the principles acquired in TESL 426 to the teaching of ESL to primary-school learners. Students attend on-campus seminars and spend a minimum of 140 hours observing and teaching in a primary school supervised by a co-operating teacher and a university professor.

TESL 467 Internship: Secondary I (3 credits)

Prerequisite: TESL 427 concurrently; TESL 466. The purpose of this course is to apply the principles acquired in TESL 427 to the teaching of ESL to secondary-school learners. Students attend on-campus seminars and spend a minimum of 140 hours observing and teaching in a secondary school supervised by a co-operating teacher and a university professor.

TESL 471 Teaching Language Arts: Secondary (3 credits)

Prerequisite: TESL 426, 466; TESL 427 previously or concurrently. The purpose of this course is to familiarize students with the principles and techniques of teaching comprehension and production skills to advanced secondary learners of ESL. Students are made familiar with current approaches to the teaching of high-level oral interaction skills, reading and writing skills, corrective feedback to writing, and the use of long-term projects and portfolios. The use of authentic English texts such as essays, novels, short stories, poetry, and drama is emphasized.

NOTE: Students who have received credit for TESL 318 or for this topic under a TESL 498 number may not take this course for credit.

TESL 486 Internship: Primary II (6 credits)

Prerequisite: ENGL 212, 213 with a grade of C+ or better; EDUC 200, 450, 454; TESL 330, 331, 341, 415, 426, 466, 471; TESL 487, 488 concurrently. Students must also have completed at least six of the required nine credits in English Literature. The purpose of this course is to further develop the skills required in teaching ESL to primary-school learners. Students teach a minimum of 210 hours supervised by a co-operating teacher and a university professor. In addition, students attend on-campus seminars in which they discuss and reflect upon their experiences in the schools.

TESL 487 Internship: Secondary II (6 credits)

Prerequisite: EDUC 200; TESL 467; TESL 486, 488 concurrently. The purpose of this course is to further develop the skills required in teaching ESL to secondary-school learners. Students teach a minimum of 210 hours supervised by a co-operating teacher and a university professor. In addition, students attend on-campus seminars in which they discuss and reflect upon their experiences in the schools.

TESL 488 *Internship Seminar* (3 credits)

Prerequisite: TESL 486, 487 concurrently. The purpose of this course is to integrate the knowledge gained during the BEd with the knowledge that students have acquired during practice in the field. Students reflect on and make explicit their own professional and personal development over the course of the four-year program and set goals for future long-term professional development.

TESL 491 *Study in a Special Subject* (3 credits)

Prerequisite: Permission of the Department. This course provides an opportunity for advanced students to intensify their study beyond the area of specialization already represented by the curriculum. The selected subject varies with the special interest of the instructor conducting the course in any given year.

TESL 492 *Study in a Special Subject* (3 credits)

Prerequisite: Permission of the Department. A student repeating TESL 491 registers for credits under TESL 492.

TESL 498 *Advanced Topics in TESL* (3 credits)**TESL 499 *Advanced Topics in TESL*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Courses in English as a Second Language — ESL Courses

Courses in English as a Second Language are designed for students who are not native speakers of English and who need further training in the effective use of English in the university setting. Students must be tested for placement in ESL 202 or 204 and 205 or 206. Information about placement testing schedules may be obtained from the English Language Proficiency Testing Office of the Department of Education, 2070 Mackay, Room: 200, 514-848-2424, ext. 2453. A special examination fee is charged. (See concordia.ca/admissions/tuition-and-fees)

Written work is required in English for these courses; please consult with the Department.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

NOTE: Students enrolled in a regular degree or an Extended Credit degree program in the Faculty of Arts and Science may take ESL courses for degree credit, up to a maximum of six credits.

ESL 202 *Developing Academic English Language Skills* (6 credits)

Prerequisite: Placement by the Concordia Comprehensive ESL Placement Test (ConCEPT). This course helps non-native-speaking students develop the language skills necessary for academic work through an integrated program of grammar, vocabulary, reading, and writing. The coursework enables students to build a wide range of vocabulary and grammatical structures and apply them to essential university tasks such as paraphrasing, expository writing, and processing academic texts.

ESL 204 *Refining Academic English Language Skills* (6 credits)

Prerequisite: ESL 202 or placement by the Concordia Comprehensive ESL Placement Test (ConCEPT). This course helps non-native-speaking students strengthen their English language skills and apply them to high-level academic tasks such as critical reading, synthesizing, and integrated writing assignments. Attention is paid to analyzing patterns in written English and making appropriate language choices as well as identifying, integrating, and referencing appropriate academic source material.

ESL 205 *Academic Oral Communication I* (3 credits)

Prerequisite: Placement by the Concordia Comprehensive ESL Placement Test (ConCEPT). This course helps students develop the oral skills necessary for speaking and listening in an English-speaking academic environment. The focus of the course is the improvement of students' overall pronunciation skills, including native-like production of English speech at the level of individual sounds, words, and sentences, as well as the development of the listening skills necessary for effective oral communication. This course includes a multimedia language lab component.

ESL 206 *Academic Oral Communication II* (3 credits)

Prerequisite: ESL 205 or placement by the Concordia Comprehensive ESL Placement Test (ConCEPT). This course helps students achieve greater intelligibility and fluency by practising oral communication skills in meaningful discourse, as part of communicative activities and public-speaking assignments. Emphasis is placed on the learning of speech phenomena at the discourse level such as production of native-like stress, rhythm, intonation, and speaking rate. This course includes a multimedia language lab component.

ESL 298 *Selected Topics in ESL* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.090.2 ADULT EDUCATION

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

30 Certificate in Adult Education

Certificate Admission Requirements

General admission requirements are listed in §13. Applicants will be interviewed prior to admission.

Students must take:

- 9 ADED 201³, 202³, 220³
- 12 Chosen from the Adult Education (ADED) offerings
- 3 Chosen from cognate courses with the permission of the program director
- 6 ADED 496³, 497³, Integrative Internships I and II

Students may transfer into the certificate program up to 12 credits earned in an incomplete degree or certificate program or as an Independent student provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

24 Minor in Adult Education

- 9 ADED 201³, 202³, 220³
 - 15 Chosen from Adult Education (ADED) course offerings with the prior approval of the Adult Education advisor.
-

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ADED 201 Concepts and Principles of Adult Education (3 credits)

This course consists of an overview of the field of adult education as a field of study with emphasis given to its philosophy, objectives, historical development, and the nature of adult learners. It also examines adult education as a field of practice with emphasis given to methods, techniques, roles, and competencies. This course stresses active student participation and self-directedness.

NOTE: Students who have received credit for ADED 200 may not take this course for credit.

ADED 202 The Scope and Nature of Adult Education Programs (3 credits)

This course is designed to help students develop an understanding of the scope and nature of adult education programs. Emphasis is placed on existing programs, and institutions and agencies providing them. The course stresses active student participation and self-directedness.

NOTE: Students who have received credit for ADED 200 may not take this course for credit.

ADED 220 Adults as Learners (3 credits)

This course examines the unique physiological, psychological, and sociological characteristics of adults, their influence on adult learning and development, and their implications for educational intervention. Attention is given to changes which occur at various stages of the adult life cycle, and particularly to the dimensions which affect the adult's self-concept and orientation to learning, the motivations, needs, and interests which cause adults to participate in educational activities.

ADED 230 Roles and Competencies of Adult Educators (3 credits)

The purpose of this course is to review the state of professionalization of adult education. General skills, knowledge, and attitudes expected of adult educators regardless of the setting in which they work are examined. In addition, according to the participants' needs and interests, an opportunity is given to explore competencies related to the particular roles of, e.g., administrators, program developers, trainers, leaders, instructors, counsellors, and volunteer workers.

ADED 240 Introduction to Research in Adult Education (3 credits)

This course is designed to introduce students to how to gain access to and utilize major information sources in adult education. In addition, the course examines research interests and problem areas studied in adult education and related fields, along with current trends and various methods of inquiry used.

ADED 298 Selected Topics in Adult Education (3 credits)

ADED 299 Selected Topics in Adult Education (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ADED 302 Group Dynamics (3 credits)

This course examines the processes, conditions, and skills involved when adults work in groups. Participants develop a knowledge and understanding of group dynamics and acquire the skills needed for using groups as a means of adult learning. One of the approaches this course takes is to have participants learn about group dynamics by being actively involved in various interactive group situations.

NOTE: Students who have received credit for this topic under ADED 370 may not take this course for credit.

ADED 333 *Methods and Techniques for Facilitating Adult Learning* (3 credits)

This course is designed to give adult educators an opportunity to practise and improve their skills in facilitating adult learning. Different models of educational processes and optimal conditions for promoting adult learning are examined; attention is given to case studies, role plays, and simulation methods and techniques, as well as to individualized learning formats.

NOTE: Students who have received credit for ADED 330 or 331 may not take this course for credit.

ADED 344 *Design of Adult Learning Projects* (3 credits)

The purpose of this course is to assist participants in developing a clear working concept of various models for planning and designing adult learning projects. To facilitate this understanding, the different steps of the process are closely examined and discussed. Participants are given an opportunity to design and conduct a learning activity in the area of subject matter speciality. A systems approach, including methods for evaluating the design of the learning project is emphasized.

NOTE: Students who have received credit for ADED 340 or 341 or 343 may not take this course for credit.

ADED 345 *Evaluating Adult Learning Projects* (3 credits)

The purpose of this course is to assist participants in developing a clear working concept of various models for assessing the effectiveness of adult learning projects. The course emphasizes a systematic approach to evaluation, techniques for collecting information and providing feedback to program operation and impact. Participants are given the opportunity to conduct an evaluation of an adult learning project in the area of subject matter speciality.

NOTE: Students who have received credit for ADED 342 or 343 may not take this course for credit.

ADED 370 *Workshops for Adult Educators* (3 credits)

These workshops examine a number of topics and problems related to the field of adult education. The issues considered may differ from year to year and will be stated in the Undergraduate Class Schedule. The workshop format is designed to provide adult educators with learning opportunities that are flexibly scheduled or in the form of a one-week intensive seminar.

ADED 398 *Selected Topics in Adult Education* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ADED 403 *Diversity in Adults* (3 credits)

It is the role of adult educators (agents of change) to confront issues of diversity and to challenge the forces of racism, sexism, classism, homophobia, and discrimination. By integrating notions of education, and by reflecting on the roles of practitioners, this course develops strategies to resist structural inequality and oppression.

NOTE: Students who have received credit for this topic under an ADED 498 number may not take this course for credit.

ADED 410 *Adult Education in Canada and Quebec* (3 credits)

The purpose of this course is to examine the historical development and current state of adult education in Canada, with special reference to Quebec. Various factors which influenced the development of adult education in our society are explored; the focus is on present status, role and structure, and socio-cultural and philosophical underpinnings of the field.

ADED 412 *Concepts and Values in Adult Education* (3 credits)

This seminar is designed to encourage adult educators to reflect upon and question what one is engaged in and why. A selection of conceptual and philosophical issues underlying adult educational practice is critically examined and discussed. Attention is given to the meaning of words, the nature of ideas and values, the implications of assumptions and principles which are deemed specific in the sphere of the education of adults.

ADED 440 *Issues in the Practice of Adult Education* (3 credits)

The purpose of this seminar is to study and discuss current issues relating to the field and profession of adult education in general, along with more specific and local concerns. Group and individual interests have an important bearing on the design of this course.

ADED 496 *Integrative Internship I* (3 credits)

Prerequisite: ADED 201; ADED 202 and 15 credits in the program. This internship is designed to assist individual students in achieving a synthesis of their own experiential learning in light of acquired knowledge, skills, values, and attitudes through the clarification of personal aims and the philosophy of adult education. Students will normally enrol in this internship near the end of their program.

NOTE: Students who have received credit for ADED 495 may not take this course for credit.

NOTE: Students will normally enrol in ADED 496 near the end of their program.

ADED 497 *Integrative Internship II* (3 credits)

Prerequisite: Successful completion of ADED 496. This internship is designed to extend the personal aims and philosophy of adult education arrived at in Integrative Internship I, and engage in a special project in an adult education facility where supervision is provided by the host institution.

NOTE: Students who have received credit for ADED 495 may not take this course for credit.

ADED 498 *Advanced Topics in Adult Education* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.100

ENGLISH

Faculty

Chair

JILL DIDUR, PhD York (Can.), Associate Professor

Distinguished Professors Emeriti

HENRY BEISSEL, PhD Cologne

HOWARD FINK, MA McG.

EDWARD PECHTER, PhD Calif.(Berkeley)

Professors

MARY DI MICHELE, MA Windsor

MARCI FRANK, PhD Johns H.

BINA FREIWALD, PhD McG.

JUDITH S. HERZ, PhD Roch.

JOSIP NOVAKOVICH, MPhil Yale, MA Texas

ALAN SHEPARD, PhD Virginia

Associate Professors

STEPHANIE BOLSTER, MFA Br.Col.

TERENCE BYRNES, MA C'dia.

JASON CAMLOT, PhD Stan.

MARY ESTEVE, PhD Wash.

MEREDITH EVANS, PhD Johns H.

ANDRE FURLANI, PhD Tor.

LAURA GROENING, PhD Car.

MIKHAIL IOSSEL, MSc Leningrad, MA New Hamp.

PATRICK LEROUX, PhD Paris III

OMRI MOSES, PhD Calif.(Berkeley)

NICOLA NIXON, PhD Tor.

DANIEL O'LEARY, PhD Br.Col.

KEVIN PASK, PhD Johns H.

JONATHAN SACHS, PhD Chic.

MANISH SHARMA, PhD Camb.

KATE STERNS, MA Johns H., MFA Texas (Austin)

Assistant Professors

DANIELLE BOBKER, PhD Rutgers

JOHN MILLER, PhD McM.

RITVA SEPPANEN, MA C'dia.

DARREN WERSHLER, PhD York (Can.)

STEPHEN YEAGER, PhD Tor.

Lecturer

SINA QUEYRAS, MA C'dia.

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

J.W. McConnell Building, Room: LB 641

514-848-2424, ext. 2340

Department Objectives

The Department of English offers studies in literature, creative writing, and composition. Literary studies encourage appreciation and critical analysis of texts in their historical, literary, and cultural contexts. The Creative Writing program allows students to learn the craft involved in the production of original literary work. Professional Writing courses develop writing skills for use in business, technical, and other professional environments. Composition courses help to develop writing skills from basic to advanced levels.

Admission Requirements

TOEFL iBT REQUIREMENT

In order to be considered for admission to any of the programs offered by the Department of English, International applicants whose first language is not English must submit a recent TOEFL iBT score of 100 or higher with a minimum of 22 on the writing section. These tests must have been written within the past 24 months.

ADMISSION REQUIREMENTS FOR CREATIVE WRITING COURSES AND PROGRAMS

Creative Writing programs (Major, Minor, Honours in English and Creative Writing) are designed to develop the literary skills of students with a commitment to writing as an art form. Structured workshops guide students through the practice of their craft from introductory to advanced levels under the supervision of experienced writers. Enrolment is limited to permit constructive analysis of a student's work.

Admission to the Creative Writing programs and courses requires approval of a creative portfolio and a letter of intent. Students wishing to enter any introductory genre course in Creative Writing (225, 226, 227) or the Creative Writing programs (Major, Minor, Honours in English and Creative Writing) must apply by submitting a letter of intent and a portfolio consisting of a maximum of 15 pages of their best writing in poetry, drama, and/or fiction (short stories or novel excerpts). For students applying to the Creative Writing programs, submission in more than one genre is required.

Portfolios and letters of intent must be submitted **directly** to the English Department office. Application deadlines for students new to Concordia or in Concordia degree programs other than the BA are November 1 (for January admission) and March 1 (for September admission). Applications in these cases will be received as early as September and January, respectively. For students currently in a BA program in another discipline, the portfolio and letter of intent must be submitted by June 1 for courses starting in September and by November 7 for courses starting in January. Since student demand regularly outpaces enrolment capacity, early application is advisable in all cases.

For further details on, and updates to, admission procedures, please consult the Department of English website.

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).

REQUIREMENTS FOR ENGLISH LITERATURE PROGRAMS

All students entering the English Literature Major must take a special composition placement test which includes a literary component. Depending on the results of the test, students will be placed according to their levels in, initially, one of ENGL 206, ENGL 207, or ENGL 212. (Some sections of ENGL 212 are specially designated for English majors.) ENGL 212 and ENGL 213 do not count towards an English Literature or Creative Writing program, but may be claimed as general electives. The composition requirement must be satisfied in the first year of enrolment in the program. Students should note the required introductory courses in each of the programs.

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in English Literature

- 3 ENGL 260³
- 6 ENGL 261³, 262³

NOTE: The above nine credits to be taken within first 24 credits

- 18 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.
 - 1) Early, medieval, and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³
 - 2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³
 - 3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 327³, 328³, 331³, 438³, 439³, 440³, 441³
 - 4) 19th century from ENGL 324⁶, 329⁶, 331³, 332³, 333³, 334³, 335⁶, 441³, 442³, 443³
- 15 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.
 - 1) Modern and contemporary from ENGL 303⁶, 336³ through 359³, 446³
 - 2) American from ENGL 360⁶ through 369³, 380³, 381³, 449³, 450³, 455³
 - 3) Canadian from ENGL 244³, 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³
 - 4) Postcolonial from ENGL 382³, 383³, 385³, 386³, 387³, 388³, 454³
- 3 Literary Theory or History of Criticism chosen from ENGL 389³, 390³, 391³, 392³, 393³, 394³, 444³, 447³
- 3 ENGL 470³
- 12 Elective credits from ENGL 224³ through 499⁶

NOTE: Honours students must take at least nine credits at the 400 level, including ENGL 470. However, a student, in consultation with the honours-majors advisor may substitute another 400-level course for ENGL 470.

60 BA Specialization in English Literature

- 3 ENGL 260³
- 6 ENGL 261³, 262³

NOTE: The above nine credits to be taken within first 24 credits

- 15 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

- 1) Early, medieval, and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³
- 2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³
- 3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 327³, 328³, 331³, 438³, 439³, 440³, 441³
- 4) 19th century from ENGL 324⁶, 329⁶, 331³, 332³, 333³, 334³, 335⁶, 441³, 442³, 443³

- 18 Chosen from the following four groups; at least three credits must be taken from each group. A course can only be counted in one group, even if it is listed in more than one.

- 1) Modern and contemporary from ENGL 303⁶, 336³ through 359³, 393³, 394³, 446³
- 2) American from ENGL 360⁶ through 369³, 380³, 381³, 449³, 450³, 455³
- 3) Canadian from ENGL 244³, 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³
- 4) Postcolonial from ENGL 382³, 383³, 385³, 386³, 387³, 388³, 454³

- 18 Elective credits from ENGL 224³ through 499⁶

42 BA Major in English Literature

- 3 ENGL 260³
- 6 ENGL 261³, 262³

NOTE: The above nine credits to be taken within first 24 credits

- 6 Chosen from ENGL 303⁶, 337⁶ through 388³
- 6 Chosen from ENGL 302³ through 394³, 398³, 399⁶, 430⁶ through 499⁶
- 6 Chosen from ENGL 302³ through 499⁶

- 15 Elective credits from ENGL 224³ through 480³, with at least three credits at the 300 or 400 level

66 BA Honours in English and Creative Writing

- 3 ENGL 260³

- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶
- 6 ENGL 261³, 262³

- 15 Chosen from the following four groups. Students must take at least three credits in three of the groups. A course may count in only one group, even if it is listed in more than one.

- 1) Early, medieval and 16th century from ENGL 302³, 304⁶, 305³, 310³, 316³, 430⁶, 432⁶, 434³
- 2) 17th century from ENGL 311³, 318³, 319³, 320⁶, 435³, 436³, 437³
- 3) 18th century from ENGL 321³, 322³, 323³, 324⁶, 326³, 327³, 328³, 438³, 439³, 440³, 441³
- 4) 19th century from ENGL 324⁶, 329⁶, 331³, 332³, 333³, 334³, 335⁶, 441³, 442³, 443³
- 6 Chosen from ENGL 425⁶, 426⁶, 427⁶
- 6 Chosen from ENGL 410⁶, 411⁶, 412⁶, 413⁶, 425⁶, 426⁶, 427⁶, 428⁶, 429³, 486³
- 6 Modern and contemporary, American and postcolonial from ENGL 303⁶, 336³ through 369³, 380³ through 388³, 393³, 394³, 446³, 449³, 450³, 454³, 455³
- 3 Canadian from ENGL 244³, 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³

- 9 Elective credits in English literature

At least three credits of course work in English literature must be at the 400 level; these three credits can coincide with fulfilling any of the other requirements.

42 BA Major in Creative Writing*

- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶

- 6 Chosen from ENGL 425⁶, 426⁶, 427⁶

- 6 Chosen from ENGL 410⁶, 411⁶, 412⁶, 413⁶, 425⁶, 426⁶, 427⁶, 428⁶, 429³, 486³

- 6 Credits in Canadian literature from ENGL 244³, 370⁶, 373³, 374³, 376³, 377³, 378³, 379³, 380³, 451³, 452³, 453³

- 12 ENGL elective credits in literature courses

**NOTE: Students wishing to register for the Major in Creative Writing should refer to the admission requirements for Creative Writing courses and programs.*

24 Minor in Creative Writing

- 12 Chosen from ENGL 225⁶, 226⁶, 227⁶

- 6 Chosen from ENGL 425⁶, 426⁶, 427⁶

- 6 ENGL elective credits in literature courses

Students wishing to register for the Minor in Creative Writing should refer to the admission requirements for Creative Writing courses and programs.

24 Minor in English Literature

- 3 ENGL 260³

- 21 ENGL elective credits in literature courses*

**Students are encouraged to consult with the Department in selecting their courses.*

24 Minor in Professional Writing

- 12 ENGL 213³, 214³, 215³, 216³
- 6 ENGL 396⁶
- 3 Chosen from ENGL 395³, 397³
- 3 Chosen from ENGL 233³, 390³, 395³, 397³

*Students are encouraged to consult with the Department in selecting their courses.

60 BA Joint Specialization in English and History

- 6 ENGL 261³, 262³
- 6 Periods before 1800 (British) from ENGL 302⁶, 304⁶ through 328³, 430³ through 441³
- 6 Canadian, American, and postcolonial from ENGL 244³, 360⁶ through 388³, 449³ through 455³
- 6 19th century and 20th century (British and European) from ENGL 324⁶, 331³ through 359³, 394³, 442³, 443³, 446³
- 6 Elective credits from ENGL 224³ through 499³
- 6 History of Europe (HIST 201³, 202³)
- 9 HIST 200-level courses
- 9 HIST 300-level courses
- 6 HIST 300- or 400-level courses

Courses

200-level courses and 300-level courses without prerequisite are open to all students and may be used as English electives unless otherwise indicated.

These courses may require students to submit all written work in English only. Please consult the Department.

Not all courses listed here are offered in a given year. The Department will make an effort to offer the 200- and 300-level courses that are required for specific programs on a regular basis. General electives (230-254) and courses at the 400 level will be offered on a rotating basis. Students should consult the Concordia University web page and follow the links to the Department of English.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

ENGL 206 Fundamentals of Written English – Stage I (3 credits)

Prerequisite: ESL 204 or placement test. This course provides training in grammar and idiomatic usage, through practice with articles and plurals, verb forms and tenses, prepositions and verb-preposition combinations, sentence structure, and punctuation, as well as reading comprehension and vocabulary development through practice in paraphrasing short texts.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course for credit.

ENGL 207 Fundamentals of Written English – Stage II (3 credits)

Prerequisite: ENGL 206 or placement test. This course continues the work begun in ENGL 206 by providing additional training and practice in grammar and idiomatic usage, sentence structure and punctuation, as well as vocabulary development and reading comprehension through practice in paraphrasing and summarizing.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course or English course earlier in the composition sequence for credit.

ENGL 208 Introduction to English Composition and Literary Analysis (3 credits)

Prerequisite: Placement test. This course is intended for students who wish to improve their writing skills through written analysis of fiction, drama, and literary essays.

NOTE 1: This course does not count for credit within any English Literature, Creative Writing, or Professional Writing program.

NOTE 2: Students who have received credit for this course may not subsequently take any ESL course for credit.

ENGL 210 Introduction to Essay Writing (3 credits)

Prerequisite: ENGL 207 or placement test. The course provides further practice in English composition by focusing on diction, sentence structure, punctuation, paragraph development, and essay writing.

NOTE 1: This course does not count for credit within any English program.

NOTE 2: Students who have received credit for this course may not subsequently take ENGL 206 or 207 for credit.

ENGL 212 English Composition — Stage I (3 credits)

Prerequisite: ENGL 210 or placement test. This course is intended to help students produce clear, concise, logically organized essays and reports. Emphasis is placed on purpose, organization, and development through analysis and integration of information from a variety of sources.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or English course earlier in the composition sequence for credit.

ENGL 213 English Composition — Stage II (3 credits)

Prerequisite: ENGL 212 or placement test. This course develops further the writing skills acquired in ENGL 212 by familiarizing students with the processes and techniques necessary for the preparation of research papers and academic reports. Emphasis is

placed on summarizing and paraphrasing, critiquing ideas and information, and synthesizing, citing, and documenting multiple sources. A library orientation is a required part of this course.

NOTE 1: Students who have received credit for this course may not subsequently take ENGL 206, 207, 210, or 212 for credit.

NOTE 2: The composition sequence also includes ENGL 396, Advanced Composition and Professional Writing.

ENGL 214 Grammar, Usage, and Style (3 credits)

Prerequisite: ENGL 212. This course offers a practical analysis of the conventions governing contemporary English grammar and usage, punctuation, sentence structure, and syntax. It focuses on means for identifying and analyzing stylistic effectiveness and persuasive power in diverse professional situations.

NOTE: Students who have received credit for this course may not subsequently take any ESL course or ENGL 206–212 for credit.

ENGL 215 Principles and Practice of Editing (3 credits)

Prerequisite: ENGL 214 previously or concurrently. This course includes basic copy editing and techniques for eliminating errors in style, mechanics, and facts, and substantive editing for identifying structural problems and reorganizing, reworking, and rewriting documents.

NOTE: Students who have received credit for this course may not subsequently take ENGL 206, 207, 210, 212, or 213 for credit.

ENGL 216 Writing for Diverse Audiences (3 credits)

Prerequisite: ENGL 213 previously or concurrently. This course examines the ways that information is presented to different audiences through writing and the interaction of texts and images. Assignments include analysis of informational and persuasive strategies in model discourses for form, content, style, and design, and the application of such techniques to developing and producing documents.

NOTE: Students who have received credit for this course may not subsequently take ENGL 206, 207, 212, 213 for credit.

ENGL 224 The Creative Process (3 credits)

This course introduces students to some options for developing their own process of literary creation, from the development of an idea through to the writing and editing of works of prose fiction, poetry, and/or drama. Course work may include writing assignments, in-class exercises, readings, group presentations, and discussions. This course is open to all students.

NOTE: Students who have received credit for ENGL 224 may not take this course for credit.

ENGL 225 Creative Writing: Poetry (6 credits)

This is an introductory workshop in the writing of poetry. The first half of the course is an introduction to poetic forms and techniques. Required readings of poetry and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of poetry from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 226 Creative Writing: Prose Fiction (6 credits)

This is an introductory workshop in the writing of prose fiction. The first half of the course is an introduction to prose forms and techniques. Required readings of fiction and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of fiction from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 227 Creative Writing: Drama (6 credits)

This is an introductory workshop in the writing of plays. The first half of the course is an introduction to dramatic forms and techniques. Required readings of drama and critical essays, and exercises and assignments based on these readings, develop a common critical language and an understanding of drama from a writer's point of view. This knowledge is applied during the second half of the course, during which the class is conducted as a writing workshop. Students submit their original work for class discussion and evaluation.

NOTE: Students wishing to register for ENGL 225, 226, or 227, should refer to admission requirements for Creative Writing.

ENGL 231 Medieval Literature in Translation (3 credits)

This course studies influential texts in the Western tradition written between 400 and 1500, with emphasis on the innovations in the various genres of narrative (epic, saga, romance, tale) and erotic and ethical discourse. Texts by such writers as Marie de France, Chrétien de Troyes, Dante, and Petrarch, may be studied, as well as anonymous works such as Icelandic sagas and *The Song of Roland*.

ENGL 233 Critical Reading (3 credits)

This course is an introduction to the practice of close reading of selections chosen from poetry, fiction, drama, and non-literary prose with the aim of developing the skills necessary to respond to written texts.

ENGL 234 Poetry (3 credits)

Through a detailed examination of the various forms of poetry, this course is designed to familiarize students with the vocabulary and critical and technical concepts of the genre.

ENGL 235 *Short Fiction* (3 credits)

Through a detailed examination of the various forms of short fiction and the novella, this course is designed to familiarize students with the vocabulary, critical concepts, and history of the genre.

NOTE: Students who have received credit for ENGL 235N may not take this course for credit.

ENGL 237 *Tragedy* (3 credits)

This course is an introduction to the nature and varieties of tragic forms and sensibilities in Western literature. The course includes writers from antiquity to the present such as Sophocles, Euripides, Shakespeare, Behn, Racine, Hardy, Ibsen, Lorca, and Chopin.

ENGL 238 *Comedy* (3 credits)

This course is an introduction to the nature and varieties of comic forms and sensibilities in Western literature. The course includes writers from antiquity to the present such as Aristophanes, Cervantes, Jonson, Molière, Sterne, Gogol, Wilde, Leacock, and Amis.

ENGL 240 *Drama* (3 credits)

This course is an introduction to dramatic literature, principally in the Western tradition, and is designed to familiarize students with a selection of major works in this genre. Plays include ancient Greek dramas and works written for the stage by such writers as Aeschylus, Sophocles, Aristophanes, Shakespeare, Calderón, Webster, Racine, Molière, Büchner, Chekhov, Ibsen, Beckett, Handke, Stoppard, and Soyinka.

ENGL 241 *The Novel* (3 credits)

This course is an introduction to the varieties of novelistic forms in world literature. It familiarizes students with critical approaches to the novel and the history of the novel as a literary genre.

ENGL 243 *Satire* (3 credits)

This course is an introduction to the nature, varieties, and functions of satire, including writers from antiquity to the present, such as Juvenal, Horace, Erasmus, Swift, Voltaire, Byron, Butler, Orwell, Waugh, Spark, Richler, Vonnegut, and Atwood.

ENGL 244 *Quebec/Montreal Writing in English* (3 credits)

This course surveys the literature of Quebec written in English, with emphasis on Montreal writing. It includes such writers as F.R. Scott, MacLennan, Klein, Dudek, Layton, Symons, Gallant, Richler, Cohen, Allen, Anderson, Glassco, and Mouré.

ENGL 246 *Science Fiction* (3 credits)

This introductory course explores the development of science fiction from Mary Shelley to H.G. Wells to the present day. Along with works by such authors as Huxley, Clarke, Dick, Delany, Le Guin, Atwood, or Gibson, translated works by such authors as Verne, Zamyatin, and Lem may be studied.

NOTE: Students who have received credit for ENGL 246N may not take this course for credit.

ENGL 249 *Children's Literature* (3 credits)

As an introductory survey of children's literature, this course includes works written primarily for adults but traditionally also read by children, works specifically written for children, as well as fairy tales and other versions of folklore and myth written or adapted for children.

ENGL 250 *Forms of Popular Writing* (3 credits)

The topic of this course varies from year to year. It investigates such forms as spy novel, detective fiction, mystery, romance, travel writing, horror, and erotica in the context of the conventions, history, and popular appeal of the genre under discussion.

ENGL 251 *The Graphic Novel* (3 credits)

This course examines both literary and popular antecedents to the graphic novel, the variety of its forms, and its status in contemporary literature. Students are introduced to critical approaches that can take account of both verbal and visual aspects of the graphic novel.

NOTE: Students who have received credit for this topic under an ENGL 398 number may not take this course for credit.

ENGL 260 *Introduction to Literary Study* (3 credits)

This course introduces students to the practice of literary criticism at the university level through reading and writing about a variety of literary texts while developing the tools to analyze them in a close and critical fashion. This entails attention to the fundamentals and varieties of literary criticism — genre, rhetorical and figurative language, and narrative structure — as well as some attention to the role of theory in literary study.

ENGL 261 *British Literature to 1660* (3 credits)

Starting with selected Old English texts in translation, the course examines the literary production of the medieval period and the 15th to 17th centuries in Britain. Works are studied in their social and historical contexts and, where possible, in relation to the other arts. The course may discuss *Beowulf*, Chaucer, Julian of Norwich, medieval drama, Malory, Skelton, Wyatt, Spenser, the Sidneys, Shakespeare, Webster, Donne, Lanyer, Burton, Browne, and Milton.

NOTE: Students who have received credit for ENGL 230 may not take this course for credit.

ENGL 262 British Literature from 1660 to 1900 (3 credits)

Prerequisite: ENGL 261 recommended. This course surveys literature written in Britain from the period following the Civil War and Commonwealth to the end of the Victorian era, periods traditionally labelled Neo-Classical, Romantic, and Victorian. The course considers such issues and forms as epic, mock-epic, satire, the development of the novel, the comedy of manners, the rise of the professional writer, the romantic lyric, the increasing activity of women writers, the origins of modernism, and the interrelations among the periods.

NOTE: Students who have received credit for ENGL 230 may not take this course for credit.

ENGL 298 Selected Topics in English (3 credits)**ENGL 299 Selected Topics in English** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ENGL 302 History of the English Language (3 credits)

This course examines changes in the English language from the Anglo-Saxon era to the present, considering such matters as pronunciation, inflections, syntax, vocabulary, and social distribution.

ENGL 303 Reading Women Writing (6 credits)

This course offers an historical and theoretical perspective on writings by women from different periods, cultural contexts, and expressive forms. A close reading of selected novels, short stories, plays, and of polemical, poetic, and autobiographical works raises such issues as class, race, and gender; sexuality and creativity; national, collective, and individual identity; literary and political strategies of resistance; the use, transformation and subversion of literary forms; the popular and critical reception of individual works.

ENGL 304 Chaucer (6 credits)

This course studies major texts of Geoffrey Chaucer with emphasis on *Troilus and Criseyde* and *Canterbury Tales* in terms of the social, literary, and historical issues opened by these texts.

ENGL 305 Studies in Medieval English Literature (3 credits)

This course examines selected subjects in the history of Old English and Middle English literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 310 16th-Century Prose and Poetry (3 credits)

This course investigates developments in non-dramatic literature from the late-15th century to the 1590s, through an examination of representative poems and prose works in their historical and cultural contexts. The course includes such writers as Skelton, Wyatt, Nashe, Spenser, Sidney, and Shakespeare.

ENGL 311 17th-Century Prose and Poetry (3 credits)

This course examines the development of prose and lyric poetry from the 1590s through the Civil War and Commonwealth periods. It considers such issues as genre, form, the representation of subjectivity and gender, the function of patronage, and the shift to a print culture. The course includes such writers as Mary Sidney, Jonson, Lanyer, Donne, Browne, Walton, Herbert, Wroth, and Marvell.

NOTE: Students who have received credit for ENGL 311N may not take this course for credit.

ENGL 316 Spenser (3 credits)

This course examines Spenser's works, especially *The Faerie Queene*, in relation to such topics as genre, literary tradition, and historical and cultural contexts.

ENGL 318 English Renaissance Drama (3 credits)

This course studies plays written in the period from the start of the English commercial theatre in 1576 until its closing in 1642, in terms of the development of dramatic forms, court and popular culture, and social history. The course includes such writers as Kyd, Marlowe, Middleton, Jonson, Cary, Webster, and Ford.

NOTE: Students who have received credit for ENGL 318N may not take this course for credit.

ENGL 319 Milton (3 credits)

This course examines *Paradise Lost* and selections from Milton's early poetry, especially *Lycidas*, in the contexts of 17th-century writing, politics, and religion.

ENGL 320 Shakespeare (6 credits)

This course examines a range of Shakespearean texts in relation to such matters as dramatic and theatrical conventions, social history, poetic language, high and popular culture, critical history, and influence.

ENGL 321 Restoration and Early 18th-Century Literature (3 credits)

This course studies British literature from 1660, when the monarchy was returned to power, to 1730, when the court no longer dominated British literary culture. The course examines the wide range of genres introduced or transformed by the period's restless literary imagination, including the novel, satire, the letter, and the essay. It situates these developments in the context of changing ideas of status, gender, sexuality, science, politics, and economics.

ENGL 322 Restoration and 18th-Century Drama (3 credits)

This course examines the changing role of theatre in English culture after the re-opening of the theatres in 1660 to the middle years of the 18th century: from aristocratic heroism and libertine scandals to increasingly middle-class pleasures. It focuses on the transformation of dramatic conventions in such forms as the comedy of manners and sentimental tragedy and familiarizes students with the history of performance in the period, including the introduction of actresses and the codification of new acting styles.

ENGL 323 The Literature of Sensibility (3 credits)

This course examines the structure and nature of feeling in British literature of the mid- and late-18th century along with some consideration of concurrent developments in philosophy, historical and critical writing, and biography. It explores the contributions of concepts of sensibility and sympathy to aesthetic innovations such as realism, pornography, the gothic, and the sublime, and political developments such as feminism, abolitionism, and an emergent discourse of human rights.

ENGL 324 The 18th- and 19th-Century Novel (6 credits)

This course surveys developments in the British novel from its origins in documentary realism, satire, and romance, including the gothic, to the emergence of the novel as a dominant literary genre. The course includes works by such writers as Defoe, Fielding, Sterne, Radcliffe, Burney, Edgeworth, Austen, Dickens, the Brontës, Eliot, and Hardy.

ENGL 326 Studies in 18th-Century British Literature (3 credits)

This course examines selected subjects in the history of 18th-century British literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 327 Restoration and 18th-Century Satire (3 credits)

This course examines the development of satirical poetry, prose, and drama in the Restoration and 18th century. It explores formal issues such as satire's debts and contributions to pastoral, georgic, epic, comedy and the novel alongside such social, political, and intellectual concerns as the battle of the ancients and the moderns, libel, sedition, and copyright law, the rise of party politics, and changing gender roles. Writers may include Marvell, Rochester, Dryden, Swift, Pope, Manley, Gay, Fielding, and Sterne.

ENGL 328 The Rise of the Novel (3 credits)

This course examines the emergence and evolution of the novel and novel criticism from their beginnings in the 1680s until the end of the 18th century. It explores the reciprocal pressures of romance and realism in the formation of the novel in order to consider the ethical and aesthetic issues raised by this popular genre as well as the influences of other genres such as journalism, letters, diaries, and travel writing.

ENGL 329 Literature of the Romantic Period (6 credits)

This course examines the prose and poetry of the Romantic period (ca. 1790 to 1830s) in relation to such topics as the French Revolution, the Napoleonic wars, domestic politics, literary conventions, and the idea of the poet. Among the poets to be considered are Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Some attention may be given to such writers as Dorothy Wordsworth, De Quincey, Hazlitt, the Lambs, Austen, Scott, Mary Shelley, and Peacock.

NOTE: Students who have received credit for ENGL 325 may not take this course for credit.

ENGL 331 18th- and 19th-Century Writing by Women (3 credits)

This course examines the poetry, prose, and drama of such writers as Astell, Manley, Finch, Haywood, Burney, Radcliffe, Edgeworth, Austen, Wollstonecraft, Shelley, the Brontës, and Eliot in such contexts as the gendering of authorship, the making of literary history, and the uses and transformations of literary conventions.

ENGL 332 Studies in 19th-Century British Literature (3 credits)

This course examines selected subjects in the history of 19th-century British literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 333 Studies in 19th-Century British Poetry (3 credits)

This course examines selected subjects in the history of 19th-century poetry in Britain. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 334 Studies in 19th-Century British Prose (3 credits)

This course examines selected subjects in the history of 19th-century British prose literature, including possibly non-fiction and fiction. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 335 Literature of the Victorian Period (6 credits)

This course studies the poetry, fiction and other prose writings of such writers as Carlyle, Tennyson, the Brownings, the Brontës, Dickens, George Eliot, Newman, Ruskin, and Arnold. These works are examined in relation to such issues as class divisions, gender roles, the erosion of the authority of institutional religion, the increasing prestige of scientific explanation, the growth of British imperial power.

NOTE: Students who have received credit for ENGL 330 may not take this course for credit.

ENGL 336 Late Victorian and Edwardian Writing (3 credits)

This course investigates such matters as late Victorian art and aesthetic theory, the rise of modernism, literary experimentation, and the interrogation of traditional values. Works are selected from such writers as Butler, Pater, Wilde, James, the Rossettis, Swinburne, Morris, Meredith, Schreiner, Hardy, Conrad, and Forster.

ENGL 337 20th-Century British Literature (6 credits)

This course examines modern and contemporary prose, poetry, and drama, and the formal, cultural, social, and political changes and upheavals of a century characterized as “the age of extremes.” Works are selected from such writers as Joyce, Yeats, Mansfield, Woolf, Lawrence, Eliot, Auden, Bowen, Lessing, Hill, Hughes, Stoppard, Carter, Byatt, and Rushdie.

ENGL 340 Modernism (6 credits)

The congeries of experimental movements collectively identified as Modernism, flourishing from prior to World War I until World War II, renegotiated artistic conventions, revived neglected traditions, and turned attention to the primary materials of art (sound, colour, language). In painting emerged a tendency to abstraction, in music a tendency to atonality, and in literature to non-mimetic forms. Experiments abounded in disjunctive, elliptical, impressionistic, allusive, and mythopoeic styles. Avant-garde artists organized into numerous schools, including the Imagists, Surrealists, Dadaists, Constructivists, Futurists, and Vorticists. The literature, often produced by expatriates, was cosmopolitan, elitist, and provocative. Much of the most important work, appropriately enough in an era of female enfranchisement, was written by women. It was also the “Jazz Age,” the nexus of which was the Harlem Renaissance. While the course focuses on the lively cross-fertilization of British and American writing, the international scope of Modernism is also emphasized, as well as its diversity (e.g. in ballet, cinema, music, and painting).

ENGL 341 Modern Fiction (3 credits)

This course examines a developing international literary culture from the early-20th century to the post-war period. Works are selected from such writers as Mann, Kafka, Proust, Stein, Camus, Borges, Nabokov, and Pynchon.

ENGL 345 Modern Drama (3 credits)

This course surveys the main currents of 20th-century drama in a study of such writers as Ibsen, Chekhov, Strindberg, Lorca, Lady Gregory, Ionesco, Barnes, Beckett, Albee, Pinter, Orton, Stoppard, and Handke.

ENGL 346 Modern European Literature (6 credits)

This course surveys late-19th- and 20th-century plays, poems, and novels in translation, chosen from such writers as Dostoevsky, Tolstoy, Ibsen, Chekhov, Gide, Sartre, Colette, Akhmatova, Svevo, Mann, Musil, Böll, and Calvino.

ENGL 349 Modern Poetry in English (3 credits)

This course studies the theory and practice of poets writing in English during the 20th century. Examples are chosen from such writers as Yeats, Pound, Eliot, Crane, Stein, Auden, Stevens, Moore, Bishop, and Merrill, as well as from some more recent poets.

ENGL 350 Contemporary Literature (6 credits)

This course examines the relation between the concepts of the contemporary and the postmodern, through an examination of such writers as Amis, Calvino, Pynchon, Rushdie, Desai, Auster, Kureishi, Winterson, Carter, DeLillo, Dove, Heaney, Wilson, Kushner, Durang, and Walcott.

ENGL 351 20th-Century Writing by Women (3 credits)

Through fiction, personal writings, poetry, and drama, this course examines gender and its discontents in turn-of-the-century and mid-century writing, in writing of the modernist period, and in writing of the politically oriented “second wave” of feminism of the 1960s and 1970s. Its concerns include the developing representation of race, class, and sexual orientation. Works are selected from such writers as Woolf, Hurston, Nin, Plath, Rich, Rule, Walker, Morrison, Cixous, Pollock, Gordimer, and El Saadawi.

ENGL 352 Contemporary Writing by Women (3 credits)

This course deals with fiction, personal writings, poetry, and drama from the late 1970s to the present. Its concerns may include the challenges and possibilities of postmodernism; experiments in writing the life, writing the body, writing between genres, between cultures; collaborative writing; the uses and transformations of traditional and popular forms of writing. Works are selected from such writers as Morrison, Desai, Munro, Marlatt, Scott, Maracle, Aidoo, Winterson, Gallant, Anzaldúa, and Rendell.
NOTE: Students who have received credit for ENGL 354 may not take this course for credit.

ENGL 353 Contemporary Irish Literature (3 credits)

This course examines a selection of Irish literary texts reflecting the social, economic, political, and cultural transformations in both the North and the South, written since 1960 by writers such as Brian Friel, Seamus Heaney, Deirdre Madden, Eavan Boland, Dermot Bolger, Patrick McCabe, John McGahern, and Hugo Hamilton.

NOTE: Students have received credit for this topic under an ENGL 359 or IRST 398 number may not take this course for credit.

ENGL 355 Joyce (3 credits)

This course will examine Joyce's *Ulysses* in its formal, historical, and cultural contexts. Other writings of Joyce may receive some attention.

ENGL 356 The Irish Short Story Tradition (3 credits)

This course traces the development of the Irish short story from its roots in the Gaelic story-telling tradition and its origins as a literary form in the 19th century, in stories by such writers as James Joyce, Frank O'Connor, Elizabeth Bowen, Sean O'Faolain, Mary Lavin, Edna O'Brien, William Trevor, Ellis Ni Dhuibhne, and Bernard MacLaverty. Students discuss the narrative strategies used to explore various versions of Irish identity.

NOTE: Students have received credit for this topic under an ENGL 359 or IRST 398 number may not take this course for credit.

ENGL 357 *The Irish Literary Revival* (3 credits)

This course traces the origins and nature of the extraordinary literary renaissance that occurred in Ireland from the 1880s to the 1920s. It examines issues such as the rise of Irish cultural nationalism and the concomitant turn to Ireland's past, both mythic and historic, as well as the continuing influence of the Catholic Church and the British state. Writers studied include W.B. Yeats, Lady Gregory, J.M. Synge, James Joyce, and Sean O'Casey.

ENGL 358 *Emigrants and Immigrants: Writing the Irish Diaspora* (3 credits)

This course examines various forms of literary expression — novels, stories, poems, and life-writing (memoirs, autobiographies, letters) — from Ireland and the Irish Diaspora that address the experience of emigration, settlement, and integration of Irish migrants in various countries around the world. Issues explored include concepts of diasporic and transnational identities; the negotiation of forms of self-understanding and self-transformation in the context of hybridity, fluidity, and multiplicity; and the roles of landscape, memory, and cultural production as determining factors in the competing hegemonies of homeland and diaspora. A selection of texts by writers from Ireland (Brian Friel, Joseph O'Connor, Eavan Boland), Canada (D'Arcy McGee, Brian Moore, Jane Urquhart), America (William Kennedy, Alice McDermott, Maeve Brennan), England (Patrick MacGill, Elizabeth Bowen, William Trevor) and Australia (Thomas Keneally, Vincent Buckley) is explored. A selection of letters, diaries, and personal reflections by Irish immigrants is also studied.

NOTE: Students have received credit for this topic under an ENGL 359 number may not take this course for credit.

ENGL 359 *Studies in Irish Literature* (3 credits)

This course examines selected subjects in the history of Irish literature. Specific topics and prerequisites for this course are stated in the Undergraduate Class Schedule.

ENGL 360 *American Literature* (6 credits)

A survey of American literature from the colonial period into the 20th century. Readings are drawn from such writers as Bradstreet, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, James, Douglass, Chopin, Fitzgerald, and Faulkner.

ENGL 361N *American Literature before 1800* (3 credits)

This course concentrates on American Colonial literature from the early Puritan settlements to the aftermath of the Revolution, drawing on the works of such writers as Bradford, Rowlandson, Taylor, Franklin, Paine, and Jefferson.

ENGL 362N *American Literature 1800-1865* (3 credits)

This course focuses on American writing from shortly after the Revolution to after the Civil War, tracing the development of an American literary tradition through the works of such authors as Irving, Emerson, Hawthorne, Melville, Stowe, Douglass, Whitman, and Dickinson.

ENGL 363N *American Literature 1865-1914* (3 credits)

This course traces American literature from the conclusion of the Civil War until World War I, examining such authors as Twain, James, Harte, Jewett, Crane, DuBois, and Wharton.

ENGL 364N *American Literature from 1914 to Mid-20th Century* (3 credits)

This course traces American realism, modernism, and regionalism from World War I until the mid-20th century, emphasizing such writers as Cather, Frost, Stevens, Williams, Moore, Toomer, Faulkner, Fitzgerald, Hemingway, Welty, and Ellison.

ENGL 365 *American Literature from Mid-20th Century to the Present* (3 credits)

This course considers developments in American literature since World War II through the work of such writers as Plath, Bishop, Baldwin, O'Connor, Bellow, Nabokov, Pynchon, Updike, Oates, Morrison, Barthelme, and Walker.

ENGL 366N *The American Novel* (3 credits)

This course concentrates on the American novel from its early emergence, through its experimental and sentimental periods, to its present range of forms, examining the works of such writers as Brockden Brown, Cooper, Stowe, James, Stein, Faulkner, Wright, Morrison, Updike, and Sorrentino.

ENGL 367 *American Poetry* (3 credits)

This course considers the theory and practice of American poetry from the 19th century to the present through the work of such writers as Whitman, Dickinson, Frost, H.D., Pound, Stevens, Williams, Olson, Ginsberg, Waldman, Bishop, and Ashbery.

ENGL 368N *African-American Literature to 1900* (3 credits)

This course traces the emergence of African-American literature, from early poetry and slave narratives to later autobiographies and novels, examining such writers as Wheatley, Turner, Douglass, Jacobs, Harper, Chesnutt, Washington, and DuBois.

ENGL 369 *African-American Literature 1900 to Present* (3 credits)

This course considers African-American literature from the renewal of southern segregation laws, through the Harlem Renaissance, the Civil Rights Movement, and contemporary writing, tracing the works of such writers as Toomer, Hurston, Hughes, Wright, Ellison, Giovanni, Reed, Walker, Dove, and Morrison.

ENGL 370 *Canadian Literature* (6 credits)

This course examines the development of Canadian literature from its beginnings to the present day through a series of representative works of prose and poetry, written in or translated into English.

ENGL 373 *19th-Century Canadian Literature* (3 credits)

This course studies the literature written in Canada in a variety of genres as the country evolved from colony to nation. It explores such topics as the relations among discourse, nation building, gender, and genre.

ENGL 374 *Canadian Fiction to 1950* (3 credits)

This course studies the themes and technical strategies of Canadian fiction from the 1890s to the mid-20th century by such authors as Roberts, Montgomery, Leacock, Callaghan, Ross, MacLennan, Mitchell, and Smart.

ENGL 376 *Postwar Canadian Fiction* (3 credits)

This course studies Canadian fiction from 1950 through the mid-1960s as it incorporates the lyrical and the documentary, the universal and the regional, the traditional and the experimental. Authors may include Roy, Wilson, Buckler, MacLennan, Watson, Wiseman, Cohen, and Richler.

ENGL 377 *Contemporary Canadian Fiction* (3 credits)

This course studies the continuity and development of Canadian fiction from the mid-1960s to the present. Authors may include Laurence, Davies, Carrier, Wiebe, Atwood, Munro, Kogawa, Shields, Gallant, and Ondaatje.

ENGL 378 *Modern Canadian Poetry* (3 credits)

This course examines the changes in Canadian poetry from the beginning of the 20th century to the mid-1960s by such authors as Pratt, Klein, Scott, Livesay, Birney, Page, Layton, Purdy, and Avison.

ENGL 379 *Contemporary Canadian Poetry* (3 credits)

This course examines the development of Canadian poetry from the mid-1960s to the present by such authors as Atwood, Ondaatje, Nichol, MacEwan, Kroetsch, Webb, Kogawa, Dewdney, and Brand.

NOTE: Students who have received credit for ENGL 379N may not take this course for credit.

ENGL 380 *First Nations/North American Native Literature* (3 credits)

This course studies the native literature of Canada and/or the United States, from oral performance traditions, transcriptions and translations into English, and writing in English by such authors as Johnston, Campbell, King, Highway, Momaday, Erdrich, Allen, and Silko.

ENGL 381 *Literature of Ethnic America* (3 credits)

This course examines questions of ethnicity in American literature, challenging what Crevecoeur described in the 18th century as the melting pot from the perspective of such writers as Cahan, (Henry and Philip) Roth, Baldwin, Cisneros, Kingston, Silko, Tan, and Hosseini.

ENGL 382 *Postcolonial Literature* (3 credits)

This course offers a historical and theoretical introduction to literature in English from formerly colonized regions. The course examines a selection of texts — from regions such as Africa, South Asia, and the Caribbean — that address such issues as the spread of English through British colonial contact and the development of writing in English both during and after the colonial period.

ENGL 383 *African Literature* (3 credits)

This course considers how literature in English by writers from sub-Saharan Africa is embedded in the history and experience of colonization and decolonization. The course includes such authors as Achebe, Soyinka, Saro-Wiwa, Emecheta, Okri, Armah, Aidoo, Farah, Dangarembga, Coetzee, and Gordimer. The focus is on the political and aesthetic issues raised by African writing in English.

ENGL 385 *Studies in Postcolonial Literature* (3 credits)

This course examines selected subjects in the field of postcolonial literature. Specific topics and prerequisites for this course will be stated in the Undergraduate Class Schedule.

ENGL 386 *Caribbean Literature* (3 credits)

This course explores how Caribbean literature in English from nations such as Barbados, Trinidad, Antigua, Jamaica, Grenada, St. Lucia, and Guyana is implicated in the history of slavery, colonialism, and postcolonialism. The work of such authors as Bennett, Walcott, Brathwaite, Goodison, James, Selvon, Lamming, Naipaul, Brodber, Cliff, and Kincaid is examined in relation to the writers' socio-cultural contexts and to the political and aesthetic issues raised by their texts.

ENGL 387 *South Asian Literature* (3 credits)

This course studies literature from South Asia written in English by authors from India, Pakistan, Bangladesh, and Sri Lanka, such as Rushdie, Anand, Das, Narayan, Ghosh, Desai, Chaudhuri, Markandaya, Sahgal, Selvadurai, Sidhwa, Rao, and Mistry. The focus is on the significance of precolonial, colonial, and postcolonial socio-cultural concerns as expressed in a variety of literary genres. Attention is given to English as a tool of colonization as well as a means for critiquing cultural hegemony.

ENGL 388 *Literature from Australia and New Zealand* (3 credits)

This course examines literature in English from Australia and New Zealand by such writers as White, Malouf, Jolley, Carey, Stead, Mudrooroo, Stow, Johnson, Frame, Hulma, Wedde, and Kenneally. Central to the course is a discussion of the impact of colonialism, and the ongoing relationship between settler and aboriginal communities as it inflects a variety of literary genres. Literature from the Pacific islands may also be considered.

NOTE: Students who have received credit for ENGL 388N may not take this course for credit.

ENGL 389 *History of Criticism and Literary Theory* (3 credits)

This course surveys and contrasts major theories of criticism, with attention to methodologies and historical contexts. Texts are chosen from such representative theorists as Plato, Aristotle, Augustine, Lessing, Bakhtin, and in English Sidney, Dryden, Johnson, Coleridge, Arnold, Eliot, Woolf, Empson, Burke, and Frye.

ENGL 390 *Studies in Rhetoric* (3 credits)

This course offers an inquiry into the nature and function of rhetoric, the art of convincing others, through an examination of such influential classical writers as Aristotle, Cicero, and Quintilian, as well as the place of rhetoric in contemporary critical discourse. This course offers, through written exercises, practical experience in the development of rhetorical techniques.

NOTE: Students who have received credit for ENGL 390N may not take this course for credit.

ENGL 391 *Studies in Literature and Science* (3 credits)

This course compares the modes of description, investigation, and analysis in science and literature as reflections of the division of modern knowledge into the arts and sciences. How have scientific discoveries enriched or impoverished literature or critical thinking? How have literary texts represented science and the scientist? In what ways has scientific investigation been informed by literature? How does the comparison with science make it possible to explore and question the methodologies that have been developed from the study of literature? The course may focus on such topics as the development of the microscope, the telescope, evolutionary theory and neuroscience.

NOTE: Students who have received credit for this topic under an ENGL 326 number may not take this course for credit.

ENGL 392 *Aspects of Criticism and Literary Theory* (3 credits)

This course examines selected subjects in criticism and literary theory.

ENGL 393 *Gender and Sexuality in Literary Studies* (3 credits)

This course examines the development of the terms "gender" and "sexuality" as categories of historical analysis and literary interpretation by reading feminist and queer theories of gender and sexuality such as those of Rubin, Butler, Sedgwick, and Foucault alongside a range of historical and contemporary literary texts.

NOTE: Students who have received credit for ENGL 445 may not take this course for credit.

ENGL 394 *Contemporary Critical Theory* (3 credits)

This course introduces students to various interpretive strategies in contemporary critical theory, through a study of such topics as structuralism, narratology, debates about genealogy, deconstruction, psychoanalytic theory, gender and performativity. Readings may include texts by Nietzsche, Saussure, Barthes, Foucault, Derrida, Eco, Austin, Cixous, and Sedgwick.

NOTE: Students who have received credit for ENGL 394N may not take this course for credit.

ENGL 395 *Technical Writing* (3 credits)

Prerequisite: ENGL 213. This course examines written and visual strategies for communicating information in technical fields. Practice includes experience in audience analysis and visual design in the preparation of such documents as technical abstracts, reports, proposals, descriptions, and instructional manuals.

NOTE: Students who have received credit for this course may not subsequently take ENGL 206–213 for credit.

ENGL 396 *Advanced Composition and Professional Writing* (6 credits)

Prerequisite: ENGL 213 or placement test. This course is intended for students already in control of the essentials of composition who wish to develop their ability to write effectively for professional purposes. Emphasis is placed on writing for specific audiences within a variety of rhetorical situations and on peer revision and editing in a workshop format.

NOTE: Students who have received credit for this course may not subsequently take ENGL 206–213 for credit.

ENGL 397 *Business Writing* (3 credits)

Prerequisite: ENGL 213. This course examines written and visual strategies for communicating information in business contexts. Practice includes experience in audience analysis and visual design in the creation of such business documents as letters, memos, minutes, brochures, press releases, and company newsletters.

NOTE: Students who have received credit for this course may not subsequently take ENGL 206–216 for credit.

ENGL 398 *Selected Topics in English* (3 credits)**ENGL 399 *Selected Topics in English*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

ENGL 410 *Creative Non-Fiction Writing* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the writing of creative non-fiction (journal, personal essay, travel, biography and autobiography) including the reading of selected texts and discussion and criticism of students' work.

ENGL 411 *Script Writing for Radio, Screen, and Television* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the composition and development of creative scripts for radio, screen, and television. In any one year, the course may concentrate on one or two of these areas.

ENGL 412 *Writing of Children's Literature* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 225 or 226 or 227, or permission of the Department. This course is a workshop in the writing of prose, poetry, and drama for children, including an exploration of the literary techniques appropriate to the sensibilities of children.

ENGL 413 *Publishing and Editing* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 225 or 226 or 227, or permission of the Department. This course explores such topics as the process of founding and operating small presses or magazines, producing anthologies, and editing individual manuscripts and books.

ENGL 425 *Advanced Creative Writing: Poetry* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 225 or permission of the Department. Through intensive analysis and discussion of students' work, experimentation with a variety of forms, and selected reading, this workshop helps students extend their grasp of poetics and their competence in the writing of poetry.

ENGL 426 *Advanced Creative Writing: Prose Fiction* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 226 or permission of the Department. Through intensive analysis and discussion of submitted work and directed reading in modern fiction, this workshop extends the development of students' narrative skills and their understanding of fictional forms.

ENGL 427 *Advanced Creative Writing: Drama* (6 credits)

Prerequisite: Enrolment in a Creative Writing program and ENGL 227 or permission of the Department. Through reading of contemporary playwrights and intensive discussion and analysis of submitted work, this workshop helps students refine their skills in the process of completing a full-length play.

ENGL 428 *Advanced Studies in Creative Writing* (6 credits)

Prerequisite: Enrolment in a Creative Writing program, or permission of the Department. See current Undergraduate Class Schedule for specific workshop prerequisites. This course is an advanced workshop intended for students who have completed at least six credits of workshops at the 400 level in an appropriate field. The subject and prerequisites for each year are found in the current Undergraduate Class Schedule. Submission of a brief portfolio may be required for admission.

ENGL 429 *Advanced Studies in Creative Writing* (3 credits)

Prerequisite: Enrolment in a Creative Writing program, or permission of the Department. See current Undergraduate Class Schedule for specific workshop prerequisites. This course is an advanced workshop intended for students who have completed at least six credits of workshops at the 400 level in an appropriate field. The subject and prerequisites for each year are found in the current Undergraduate Class Schedule. Submission of a brief portfolio may be required for admission.

ENGL 430 *Old English* (6 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the language, literature, and culture of the Anglo-Saxon era, including such texts as elegaic lyrics and sections of *Beowulf*.

ENGL 432 *Middle English* (6 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the variety of texts in English dialects from 1200 to 1500, including such works as *Sir Gawain and the Green Knight* and other romances, *Piers Plowman*, *Pearl*, the *Showings* of Julian of Norwich, other religious and social discourse, lyrics, and drama.

ENGL 434 *Advanced Studies in Early English Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 435 *Women Writers of the Early Modern Period* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course examines the emergence into print of women writers from the late-16th to the late-17th centuries, by exploring such issues as the construction of literary history, histories of gender and sexuality, the relations between gender and genre. Works are chosen from such writers as Sidney, Sowernam, Wroth, Cary, Lanyer, Philips, Cavendish, Behn, Killigrew, Manley, and Trotter.

ENGL 436 *Literature of the Civil War and Commonwealth Period* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the prose and poetry of the 1630s through the 1650s. It explores the ways in which the Civil War was represented by such writers as Herrick, Suckling, Cowley, Bradstreet, Milton and Marvell. Political tracts, journalism, and private papers and diaries may also form part of the material of the course.

ENGL 437 *Advanced Studies in Renaissance and Early Modern Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 438 *History, Politics, and Literature in the 18th Century* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course examines the relations among the categories of history, politics, and literature, and their development as distinct discourses over the course of the century, through a study of such topics as the status of religion, the rise of science, the expansion of empire, the development of aesthetic discourse, and the construction of the category of the neoclassical.

ENGL 439 *The Rise of Criticism and Literary History* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course traces the joint development of the discourses of literary criticism and literary history from 1660 to the legislation assigning copyright to authors in the late-18th century. Examples are drawn from such writers as Dryden, Dennis, Addison, Shaftesbury, Hume, and Johnson.

ENGL 440 *Advanced Studies in Late-17th- and 18th-Century Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 441 *Forms of 18th- and 19th-Century Fiction* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course may focus on a single writer, a type of fiction such as the gothic or the epistolary, or a particular issue in the development of the novel, such as realism or the emergence of women's fiction.

ENGL 442 *Comparative 19th-Century Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies literary developments in the United Kingdom, the United States, and Canada, including such issues as Romanticism, the development of national literatures, conceptions of place and landscape, and responses to cultural change.

ENGL 443 *Advanced Studies in 19th-Century Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 444 *Advanced Studies in Gender and Sexuality* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar in the study of theories of gender and sexuality as they can be used in the interpretation of historical and/or contemporary texts.

NOTE: Students who have received credit for ENGL 445 may not take this course for credit.

ENGL 446 *Advanced Studies in 20th-Century Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 447 *Advanced Studies in Literary Theory* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 449 *The American Postmodern* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course focuses on postmodern American writers in the context of the critical debates about what constitutes the postmodern: formally, generically, and politically. It considers such writers as Antin, Ashberry, Waldman, Pynchon, Barthelme, Barth, Acker, Ford, and Morrison.

ENGL 450 *Advanced Studies in American Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. A seminar on a selected topic, text, or author. Specific content varies from year to year.

ENGL 451 *History and Ideology in Canadian Literature* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies the treatment in Canadian literature of such historical and political events, issues, and ideologies as the Conquest, the railroad, the threat of American domination, immigration, and the Canadian west.

ENGL 452 *Recent Experiments in Canadian Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course studies contemporary writing that breaks with or interrogates traditional literary genres and forms. Examples are drawn from such authors as Kroetsch, Marlatt, Ondaatje, Highway, Dewdney, Mouré, and Nichol.

ENGL 453 *Advanced Studies in Canadian Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 454 *Advanced Studies in Postcolonial Writing* (3 credits)

Prerequisite: Nine credits at the 300 level or permission of the Department. This course is a seminar on a selected topic, text, or author.

ENGL 455 *The American Nation* (3 credits)

Prerequisite: Nine credits of English literature at the 300 level or permission of the Department. This course focuses on such issues in American literature as the cosmopolitan, the regional, the local, and the transnational, exploring the theoretical and literary ways in which writers enshrine, consolidate, or call into question ideas of the American nation.

ENGL 470 *Honours Seminar* (3 credits)

Prerequisite: Enrolment in Honours English Literature and 30 credits in English. The topic of this course varies from year to year. The course provides the opportunity for final-year honours students to apply their experience of literature, literary theory, and criticism on a more advanced level.

NOTE: In consultation with the honours/majors advisor, honours students may substitute another course at the 400 level for ENGL 470.

ENGL 474 *Honours Essay* (3 credits)

Prerequisite: Enrolment in Honours English Literature and 30 credits in English. With the permission of the Department, an honours student may arrange a tutorial program with a faculty member, culminating in the writing of a long paper.

ENGL 480 *Independent Studies* (3 credits)

Prerequisite: Enrolment in an English program and nine credits at the 300 level. With the permission of the Department, a student may arrange a tutorial program with a faculty member.

ENGL 486 *SLS-International Literary Seminars* (3 credits)

Prerequisite: Permission of the coordinator of Creative Writing, or designate. This course, held at one of several locations around the world in conjunction with Summer Literary Seminars (SLS), offers intensive workshops in the writing of fiction, poetry, or drama, and includes discussion and written criticism of students' work and a series of lectures. Students are expected to read widely and to submit their own work for discussion and analysis. Grading is based on participation, and on submission of a final portfolio and an essay.

ENGL 490 *Joint Tutorial in History and English* (6 credits)

Prerequisite: Enrolment in an English program or nine credits in English Literature. A tutorial for students in an English and History Joint Specialization program.

ENGL 498 *Advanced Topics in English* (3 credits)**ENGL 499 *Advanced Topics in English*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.110 ÉTUDES FRANÇAISES

Corps professoral

Directeur

PHILIPPE CAIGNON, PhD Montr., Professeur agrégé

Professeures et professeurs titulaires

PAUL BANDIA, PhD Montr.

OLLIVIER DYENS, PhD Montr.

DAVID GRAHAM, PhD W.Ont.

LUCIE LEQUIN, PhD C'dia.

FRANÇOISE NAUDILLON, PhD Cergy-Pontoise

SHERRY SIMON, PhD Montr., Provost's Distinction

JUDITH WOODSWORTH, PhD McG.

Professeures et professeurs agrégés

PAULA BOUFFARD, PhD U.Q.A.M.

PIER-PASCALLE BOULANGER, PhD Montr.

MARC ANDRÉ BROUILLETTE, PhD Sorbonne

SYLVAIN DAVID, PhD U.Q.A.M.

DEBORAH FOLARON, PhD Binghamton

BENOÎT LÉGER, PhD McG.

PATRICK LEROUX, PhD Paris III

DENIS LIAKIN, PhD W.Ont.

SOPHIE MARCOTTE, PhD McG.

GENEVIÈVE SICOTTE, PhD Montr.

NATALIA TEPOLOVA, PhD McG.

Professeurs adjoints

DAVY BIGOT, PhD U.Q.A.M.

ADEL JEBALI, PhD U.Q.A.M.

Chargées et chargés d'enseignement

SVETLA KAMENOVA, MA Geneva, MA Sofia

DANIÈLE MARCOUX, PhD Montr.

FABIEN OLIVRY, MA Besançon

MIRELLA VADEAN, PhD C'dia.

CHRISTINE YORK, MA C'dia.

For the complete list of faculty members, please consult the Department website.

Localisation

Campus Sir George Williams

J.W. McConnell, Salle : LB 601

514-848-2424, ext. 7500/7509

Objectifs du département

L'appellation Études françaises reflète le concept pluridisciplinaire sur lequel se fondent les deux volets de notre mission universitaire : l'enseignement et la recherche. La recherche pure et appliquée se pratique dans les domaines les plus variés de la discipline en étroite liaison avec l'enseignement. De plus, nous participons à la vie intellectuelle et professionnelle de la collectivité, à l'échelle nationale et internationale.

Le Département d'études françaises a une double vocation. Il offre d'une part de solides programmes de langue, littérature, traduction et rédaction aux étudiantes et étudiants qui viennent y chercher une formation spécialisée. Il joue d'autre part un rôle capital au sein de l'Université en offrant un vaste éventail de cours de langue, linguistique, littérature et civilisation aux étudiantes et étudiants qui souhaitent compléter la formation qu'elles ou ils reçoivent dans d'autres départements.

Programmes

Il appartient à chaque étudiante et étudiant de remplir toutes les conditions requises dans son programme. L'exposant 3 ou 6 indique le nombre de crédits.

N.B. : Chaque candidate et candidat aux programmes de traduction ou de rédaction professionnelle doit inclure à son dossier une lettre d'intention rédigée dans sa langue principale, soit le français pour l'étudiante ou l'étudiant en rédaction.

N.B. : Avant de s'inscrire, les étudiantes et étudiants devront faire approuver leur programme par un membre désigné du département.

NOTE: FRENCH AS A SECOND LANGUAGE

All students not admitted into a program in the Département d'études françaises are required to consult the Études françaises website for the placement test (which is also available at the Department) in order to determine the level of elective French courses for which they can obtain credit. If in doubt call the French Department at 514-848-2424, ext. 7500 or 7518.

FRAN 211 is restricted to students with no previous training in French. FRAN 212 is designed to follow FRAN 211, or may be taken if students have little previous training in French. FRAN 211 and 212 are not intended for students who have attended high school in Quebec.

NOTE: Some students with previous French language background are restricted to certain levels of French language courses at Concordia. These restrictions are indicated as "exemptions" on the transcript. Apart from any exemptions which may have been granted to undergraduate students, the following restrictions apply to ALL students:

1) Students who have completed any 602-900-level Cegep courses or who have graduated from Francophone secondary institutions may obtain a maximum of six credits in the range of FRAN 301-321 at Concordia. No credit is awarded for language courses numbered FRAN 211-221.

2) Students who have completed any 601-series Cegep courses or who have attended a Francophone Cegep may ONLY obtain credits for Concordia French Language courses at the 400 level (FRAA 400-441). No credit is awarded for language courses numbered 211-221 or 301-321.

THE DEPARTMENT RESERVES THE RIGHT TO TRANSFER A STUDENT TO A HIGHER- OR LOWER-LEVEL LANGUAGE COURSE IF IT IS DEEMED THAT THE COURSE FOR WHICH THE STUDENT HAS REGISTERED IS NOT APPROPRIATE FOR THE EXTENT OF HIS OR HER KNOWLEDGE OF THE LANGUAGE.

60 BA Spécialisation en études françaises

N.B. : Les principaux critères de classement sont la langue d'enseignement des études secondaires, les notes obtenues et les résultats du test d'auto-évaluation du département. Pour obtenir leur diplôme, les étudiantes et étudiants doivent suivre tous les cours du programme dans la voie (A ou B) où ils sont inscrits.

A. Pour les étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français :

- 18 crédits à choisir parmi les suivants : FRAN 301⁶, 302³, 303³, 306³, 320³, 321³; FRAA 410³, 411³, 412³, 413³
- 15 crédits FLIT 300³, 302³, 303³, 305³, 308³
- 27 crédits à choisir parmi les cours FLIT de niveaux 300 et 400; FTRA 304³; FRAA 440³, 441³

B. Pour les étudiantes et étudiants ayant effectué leurs études secondaires en français :

- 12 crédits à choisir parmi les cours FRAA de niveau 400
- 15 crédits FLIT 300³, 302³, 303³, 305³, 308³
- 33 crédits à choisir parmi les cours FLIT de niveaux 300 et 400; FTRA 304³; FRAA 440³, 441³

45 BA Majeure en études françaises

Option : Langue ou littératures de langue française

N.B. : Les principaux critères de classement sont la langue d'enseignement des études secondaires, les notes obtenues et les résultats du test d'auto-évaluation du département. Pour obtenir leur diplôme, les étudiantes et étudiants doivent suivre tous les cours du programme dans la voie (A ou B) où ils sont inscrits.

A. Option : Langue ou littératures de langue française : français langue seconde

Pour les étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français :

Tronc commun

- 18 crédits à choisir parmi les cours FRAN 213⁶ (ou 214³ et 215³), 218³, 219³, 221³, 301⁶, 302³, 303³, 305³, 306³, 320³, 321³; FRAA 410³, 411³, 412³, 413³
- 6 crédits à choisir parmi les cours FLIT 220³, 230³, 240³, 250³, 280³, 298³

Volet langue

- 21 crédits à choisir parmi les cours FRAN 318³, 319³, 320³, 321³; FRAA de niveau 400
- OU

Volet littérature

- 21 crédits à choisir parmi les autres cours FLIT de niveaux 300 et 400; FTRA 304³; FRAA 440³, 441³

B. Option : Langue ou littératures de langue française

Pour les étudiantes et étudiants ayant effectué leurs études secondaires en français :

Tronc commun

- 15 crédits à choisir parmi les cours FRAN 306³, 320³, 321³; FRAA 410³, 411³, 412³, 413³, 423³, 440³
- 9 crédits à choisir parmi les cours FLIT 300³, 302³, 308³ ou 303³, 305³, 308³, 382³

Volet langue

- 21 crédits à choisir parmi les cours FRAN 320³, 321³; FRAA de niveau 400; FTRA 304³; ou parmi 6 crédits FLIT OU

Volet littérature

- 21 crédits à choisir parmi les autres cours FLIT du département de niveaux 300 et 400; FTRA 304³; FRAA 440³, 441³

45 BA Majeure en études françaises*

Option : Rédaction professionnelle

N.B. : Cette majeure est destinée à celles et ceux qui possèdent déjà une bonne maîtrise du français et qui souhaitent acquérir une formation professionnelle en rédaction. La majeure débute au niveau 400. L'étudiante ou l'étudiant dont le résultat au test d'évaluation du département n'atteint pas le niveau nécessaire pourra s'y préparer en suivant, hors majeure, un maximum de 12 crédits de niveau 300, choisis parmi FRAN 301⁶, 302³, 303³, 306³, 318³, 319³, 320³, 321³.

- 15 crédits FRAA 410³, 411³, 412³, 413³, 432³
 3 crédits à choisir parmi les cours FTRA 204³; FRAA 403³, 404³
 3 crédits à choisir parmi les cours FLIT de niveaux 300 et 400
 3 crédits à choisir parmi les cours FRAA 440³, 441³ et FLIT de niveau 400
 21 crédits FRAA 420³, 421³, 422³, 423³, 430³, 431³, 493³

*Les admissions sont suspendues pour l'année universitaire 2013-2014.

48 BA Majeure en études françaises

Option : Traduction

Les étudiantes et étudiants inscrits à un programme de traduction doivent remettre leurs travaux en français dans les cours de littérature.

1^e étape

- 6 crédits ENGL 212³ et 213³
 6 crédits à choisir parmi les cours FRAN 301⁶ ou 302³ et 303³; FRAN 321³; FRAA 410³, 411³, 412³, 413³

2^e étape

- 6 crédits à choisir parmi les cours FLIT de niveaux 300 et 400; FRAA 440³, 441³
 6 crédits à choisir parmi les cours FRAN 306³ et 321³; FRAA 410³, 411³, 412³, 413³, 423³, 431³, 432³
 9 crédits FTRA 200³, et FTRA 201³ et 207³ ou FTRA 202³ et 208³

3^e étape

- 6 crédits à choisir parmi les cours FTRA 203³ ou 204³, 301³ ou 304³, 305³ ou 306³, 310³, 403³ ou 404³, 405³ ou 406³, 408³
 3 crédits à choisir parmi les cours FTRA 412³, 414³ et 418³
 6 crédits en littérature d'expression anglaise

24 Mineure en langue française

- 24 crédits de langue, dont un maximum de 12 crédits FRAN de niveau 200, choisis dans un ordre accepté par le département, parmi les cours suivants :

- Un maximum de 18 crédits à choisir parmi les cours FRAN 213⁶, 214³, 215³, 218³, 219³, 221³, 301⁶, 302³, 303³, 305³, 306³, 318³, 319³, 320³, 321³; FLIT 230³, 240³
- Un minimum de six crédits à choisir parmi les cours FRAN 321³; FRAA de niveau 400

24 Mineure en littératures de langue française

- 24 crédits en littératures de langue française choisis en consultation avec le département

30 Certificat en langue française

Ce programme est accessible soit aux vrais débutants soit à des personnes qui ont déjà une certaine connaissance du français. Dans les deux cas, il permettra d'accéder à un niveau relativement avancé de communication et d'expression en français.

- 30 crédits FRAN, choisis à un niveau et dans un ordre acceptés par le département,

- 18 crédits FRAN 211⁶, 212⁶, 213⁶ (ou 214³ et 215³), 218³, 219³, 221³, 301⁶ (ou 302³ et 303³), 305³, 306³, 320³, 321³
- 12 crédits FRAN 301⁶ (ou 302³ et 303³), 305³, 306³, 320³, 321³; FRAA 405³, 410³, 411³, 412³, 413³, 440³

N.B. : Ce certificat exige normalement plus d'une année de scolarité.

Programme de traduction (formule standard et coopérative)

69 BA Spécialisation en traduction

N.B. : 1. Le BA Spécialisation en traduction (formule standard et formule coopérative) est un programme contingenté. Comme il demande une excellente connaissance du français et de l'anglais, les étudiantes et étudiants admis devront subir des tests de placement dans les deux langues. Les cours FTRA sont réservés en priorité aux étudiantes et étudiants inscrits dans les programmes de traduction.

2. Le programme de BA Spécialisation en traduction se présente sous deux formules : la formule standard et la formule coopérative. Les conditions d'admission au BA spécialisé en traduction de formule coopérative comprennent, autre celles du programme spécialisé standard, d'autres filtrages du type lettre d'intention, examen écrit, entrevue. La formule coopérative comprend les mêmes cours, en nombre et en nature, que la formule standard; cependant, la séquence des

cours varie et trois stages rémunérés de quatre mois chacun, viennent s'ajouter et alternent avec les sessions d'étude (voir calendrier ci-après). Ces stages se déroulent au sein de services linguistiques et sont consacrés à des tâches en traduction ou dans l'un des domaines connexes : rédaction, terminologie, documentation, etc.

Année	Automne	Hiver	Été
1	Cours I	Cours II	Cours III
2	Stage I	Cours IV	Stage II
3	Cours V	Stage III	Cours VI

Les étudiantes et étudiants du programme coopératif sont encadrés chacune et chacun personnellement et doivent satisfaire aux exigences de la Faculté des arts et des sciences et de l'Institut d'enseignement coopératif pour se maintenir dans le programme coopératif. La liaison entre l'étudiante ou l'étudiant, les employeurs et l'Institut d'enseignement coopératif est du ressort du comité du programme coopératif en traduction du Département d'études françaises.

Pour plus de renseignements sur l'Institut d'enseignement coopératif, voir la §24 de cet annuaire.

3. Le programme comporte deux options : la traduction du français vers l'anglais ou de l'anglais vers le français.

Normalement, l'étudiante ou l'étudiant choisira l'une ou l'autre de ces deux options. Dans de rares cas, certaines candidates et certains candidats pourront satisfaire aux exigences des deux options.

4. Les étudiantes et étudiants du programme de BA Spécialisation en traduction doivent obtenir une note minimale de C dans tous les cours de traduction. Si la note obtenue est inférieure à C, les étudiantes et étudiants devront reprendre le cours dans l'année qui suit. Une seule reprise est permise. Si cette exigence n'est pas satisfaite ou en cas d'échec, les étudiantes et étudiants seront radiés du programme. En cas de probation ou de radiation, les étudiantes et étudiants recevront un avis écrit de la direction du département.

5. Les étudiantes et étudiants inscrits à un programme de traduction doivent remettre leurs travaux en français dans les cours de littérature.

Option A : français-anglais

1^{re} étape

- 6 crédits à choisir parmi les cours FRAA 410³, 412³ ou 413³

N.B. : Une étudiante ou un étudiant qui, à l'examen d'admission, n'a pas obtenu une note lui permettant de suivre les cours de niveau 400 peut s'inscrire au(x) cours FRAN 301⁶ ou 302³ et 303³ ou 306³ ou 321³ et suivre les cours ci-dessus en 2^e année au plus tard.

- *6 crédits ENGL 212³ et 213³ ou 396⁶

- 6 crédits à choisir parmi les cours FLIT de niveaux 300 et 400; FRAA 440³, 441³

- 6 crédits en littératures de langue anglaise

- 9 crédits FTRA 200³, 201³ et 207³

2^{re} étape

- 15 crédits FTRA 203³, 301³, 305³, 310³ et 411³

- 6 crédits de linguistique choisis en consultation avec la conseillère pédagogique ou le conseiller pédagogique

3^{re} étape

- 6 crédits à choisir parmi les cours FTRA 401³, 403³, 405³, 408³

- 3 crédits FTRA 409³

- 3 crédits à choisir entre les cours FTRA 412³, 414³ et 418³

- 3 crédits à choisir parmi FTRA 416³, 452³, 455³, 458³

Option F : anglais-français

1^{re} étape

- 6 crédits à choisir parmi les cours FRAA 410³, 412³, 413³, 423³, 430³, 431³, 432³

- *6 crédits ENGL 212³ et 213³ ou 396⁶

N.B. : Une étudiante ou un étudiant qui n'est pas admissible au cours ENGL 212³ peut s'inscrire aux cours ESL 204⁶ ou ENGL 206³ et suivre les cours ENGL 212³ et 213³ en 2^e année au plus tard.

- 9 crédits à choisir parmi les cours FLIT de niveaux 300 et 400 ou FRAA 440³, 441³

- 3 crédits à choisir parmi les cours de littérature de langue française FLIT 447³ ou 449³, ou parmi les cours FRAA 421³, 423³, 430³, 431³

- 9 crédits FTRA 200³, 202³ et 208³

2^{re} étape

- 15 crédits FTRA 204³, 304³, 306³, 310³ et 411³

- 6 crédits en linguistique à choisir entre FRAA 400³, 401³, 403³, 404³, 421³, 422³

3^{re} étape

- 6 crédits à choisir parmi les cours FTRA 402³, 404³, 406³, 408³

- 3 crédits FTRA 410³

- 3 crédits à choisir entre les cours FTRA 412³, 414³ et 418³

- 3 crédits à choisir parmi les cours FTRA 416³, 452³, 455³, 458³

*L'étudiante ou l'étudiant peut comptabiliser les 6 crédits d'ENGL 212³ et 213³ ou 396⁶ dans les 24 crédits à réaliser hors département. Dans ce cas, pour les remplacer il devra effectuer 6 crédits parmi ceux offerts au département.

Cours

Les cours du département ayant reçu de nouveaux numéros, les étudiantes et étudiants trouveront une liste d'équivalences à la section 200.1.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Si une étudiante ou un étudiant s'inscrit à un cours de langue d'un niveau inférieur ou supérieur à ses connaissances, le département se réserve le droit de lui demander de s'inscrire à un cours d'un niveau plus approprié.

In cases where students are enrolled in language classes which do not match their linguistic skills, the Department reserves the right to advise them to transfer into a class at a more appropriate level.

Langue

- **Français langue seconde**

FRAN 211 French Language: Elementary (6 credits)

This course is restricted to students having no previous training in French. It includes a comprehensive introduction to the basic structures and vocabulary of French and should enable students to acquire an ability to speak and understand simple conversational French. Both oral and written aspects of the language are presented, with special emphasis on oral skills.

Laboratory sessions are included.

NOTE: Students who have received credit for FRAN 200 or FRAN 201 may not take this course for credit.

FRAN 212 French Language: Transitional Level (6 credits)

Prerequisite: FRAN 211 or equivalent. The aim of this course is to provide students who have studied either one year of French at the university or post-secondary level, or two years of French at the secondary level or equivalent, with an opportunity to improve their levels of comprehension and expression so that they will be able to communicate with greater ease in written and oral French. Students will expand their repertory of linguistic structures and vocabulary through in-class directed conversation groups, homework, oral lab, and written exercises. Laboratory sessions are included.

FRAN 213 Langue française : niveaux intermédiaires I et II (6 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours s'adresse aux étudiantes et étudiants ayant suivi soit quatre ans de français à l'école secondaire, soit deux ans de français au niveau collégial, soit 12 crédits de français à l'université, ou l'équivalent. Par un apprentissage et approfondissement de mécanismes grammaticaux, du vocabulaire, de techniques de compréhension et production écrites et orales, l'étudiant sera amené à développer les compétences nécessaires pour communiquer avec aisance en français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 204 ou 205 ou 214 ou 215 ne peuvent obtenir de crédits pour ce cours.

FRAN 214 Langue française : niveau intermédiaire I (3 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours s'adresse aux étudiantes et étudiants ayant suivi soit quatre ans de français à l'école secondaire, soit deux ans de français au niveau collégial, soit 12 crédits de français à l'université, ou l'équivalent. Par un apprentissage et approfondissement de mécanismes grammaticaux, du vocabulaire, de techniques de compréhension et production écrites et orales, l'étudiant sera amené à développer les compétences nécessaires pour communiquer avec aisance en français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 204 ou 213 ne peuvent obtenir de crédits pour ce cours.

FRAN 215 Langue française : niveau intermédiaire II (3 crédits)

Préalable : FRAN 214 ou l'équivalent. Ce cours est la suite du FRAN 214. Il vise à donner à l'étudiant une plus grande aisance dans son utilisation du français oral et écrit. Les travaux prendront la forme d'exercices variés de grammaire, de vocabulaire, de compréhension et production de textes écrits, et d'interaction orale.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 205 ou 213 ne peuvent obtenir de crédits pour ce cours.

FRAN 218 Initiation au français oral (3 crédits)

Préalable : FRAN 213 ou l'équivalent. Ce cours de niveau intermédiaire s'adresse à des étudiantes et à des étudiants qui ont une connaissance de base du français et qui désirent renforcer leur compétence en communication orale. Une démarche combinant compréhension auditive et expression orale permettra de développer aussi bien les habiletés à comprendre la langue parlée que l'aisance à prendre la parole.

FRAN 219 Initiation au français écrit (3 crédits)

Préalable : FRAN 213 ou l'équivalent. Ce cours de niveau intermédiaire s'adresse à des étudiantes et étudiants qui ont une bonne compétence en communication orale en français et qui désirent renforcer leur compétence en communication écrite. Il a principalement pour objectif d'amener les étudiantes et les étudiants à consolider leurs connaissances de la structure de la phrase de base et de ses transformations, et à enrichir leur vocabulaire. Les étudiantes et les étudiants seront également initiés à la composition de textes divers et à deux techniques d'expression : le plan et le résumé.

FRAN 221 Correction phonétique (3 crédits)

Préalable : FRAN 212 ou l'équivalent. Ce cours s'adresse à des étudiantes et des étudiants dont la langue maternelle n'est pas le français et qui souhaitent améliorer leur prononciation. Une approche systématique, qui combine des activités de perception et d'articulation allant des sons isolés à la phrase, leur permettra d'acquérir et de mettre en pratique les règles de la phonétique française (pronunciation, liaison, intonation).

FRAN 298 Étude d'un sujet particulier (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

FRAN 301 Langue française : niveaux d'approfondissement I et II (6 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours d'approfondissement est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression écrite et orale. Le cours est essentiellement axé sur la pratique de la lecture, sur la compréhension de textes et de documents audiovisuels, ainsi que sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 302 ou 303 ne peuvent obtenir de crédits pour ce cours.

FRAN 302 Langue française : niveau d'approfondissement I (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Ce cours de français, niveau d'approfondissement I, est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression orale et écrite. Le cours est essentiellement axé sur la pratique de la lecture, sur la compréhension de textes et de documents audiovisuels, ainsi que sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 301 ne peuvent obtenir de crédits pour ce cours.

FRAN 303 Langue française : niveau d'approfondissement II (3 crédits)

Préalable : FRAN 302 ou l'équivalent. Ce cours de français, niveau d'approfondissement II, est destiné aux étudiantes et étudiants qui possèdent déjà une bonne connaissance du français mais qui ont besoin d'améliorer leur expression écrite et orale. Le cours est essentiellement axé sur la pratique de la grammaire et de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 301 ne peuvent obtenir de crédits pour ce cours.

FRAN 305 Communication orale (3 crédits)

Préalable : FRAN 301 ou 303 ou l'équivalent. Ce cours s'adresse à des étudiantes et des étudiants non francophones qui souhaitent améliorer les aptitudes nécessaires à une communication orale efficace en français. Des présentations théoriques et des activités pratiques exploitant des situations de communication variées leur permettront d'acquérir une plus grande aisance et de mieux organiser leur discours. Des activités d'écoute basées sur des documents authentiques leur permettront d'augmenter leur capacité de compréhension en français.

FRAN 306 Communication écrite (3 crédits)

Préalable : FRAN 301, 303 ou l'équivalent. Acquisition des techniques nécessaires à la rédaction. Étude des différents styles de langue écrite par opposition à ceux de la langue parlée. Pratique de l'analyse et du commentaire de texte.

FRAN 315 Correction Phonétique (Niveau avancée) (3 crédits)

Préalable : FRAN 221, 301, 303 ou l'équivalent. Ce cours s'adresse à l'étudiante ou l'étudiant qui peut s'exprimer clairement du point de vue phonétique et qui désire acquérir une performance en prononciation. Le cours est essentiellement axé sur les particularités prosodiques et phonétiques du français. Une importance est également accordée à l'intonation expressive.

FRAN 318 Le français des affaires I (3 crédits)

Préalable : FRAN 306 ou l'équivalent. Ce cours vise la maîtrise des techniques de la correspondance commerciale. L'accent est mis sur la formation de compétences nécessaires à une présentation et à une rédaction soignées des communications d'affaires. Au moyen de documents authentiques et d'exercices d'application on étudie, d'une part, la mise en page de la lettre d'affaires et, d'autre part, le style de la correspondance d'affaires en fonction de diverses circonstances. Le cours familiarise également l'étudiant au vocabulaire spécialisé du domaine des affaires et lui offre l'occasion de consolider et d'approfondir, par des exercices oraux et écrits, ses connaissances de la langue française (grammaire, stylistique, anglicismes).

FRAN 319 Le français des affaires II (3 crédits)

Préalable : FRAN 306 ou l'équivalent. Ce cours vise à faire acquérir à l'étudiante ou l'étudiant l'habileté à rédiger des textes administratifs dans le domaine des affaires. La révision du français (grammaire, stylistique, vocabulaire, anglicismes) fait également partie des objectifs du cours. Par l'étude de documents authentiques et la rédaction de textes administratifs, l'étudiante ou l'étudiant se familiarisera avec l'écriture professionnelle en affaires.

FRAN 320 Le vocabulaire français (3 crédits)

Préalable : FRAN 303 ou l'équivalent. Ce cours propose une présentation méthodique des divers aspects du vocabulaire français. Il comporte quatre parties : introduction générale et présentation des outils bibliographiques; origine et évolution des mots; procédés de création lexicale; variation sémantique. Les travaux prendront la forme d'exercices variés de vocabulaire, d'analyses de textes et de recherches lexicales.

N.B. : Avec le cours FRAN 306, ce cours constituerait une bonne préparation aux cours de langue de niveau 400.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 334 ne peuvent obtenir de crédits pour ce cours.

FRAN 321 Grammaire fonctionnelle du français (3 crédits)

Préalable : FRAN 301 ou 303 ou 306; ou l'équivalent. Ce cours de mise à niveau s'adresse à l'étudiante ou l'étudiant qui, possédant déjà des connaissances approfondies en français, veut développer des automatismes de correction adaptés aux différents types de communication. Axé sur la compréhension et l'expression écrite et orale, il permettra à l'étudiante ou à l'étudiant d'atteindre une meilleure utilisation de la langue française.

FRAN 398 Étude d'un sujet particulier (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

- **Langue et linguistique françaises**

FRAA 400 *Introduction à la linguistique française I* (3 crédits)

Préalables : FRAN 306 et 321 ou l'équivalent. Ce cours vise à initier l'étudiante ou l'étudiant à l'analyse descriptive de la structure linguistique du français contemporain. Il présente un aperçu des aspects phonémiques, morphosyntaxiques et lexicaux de la langue considérée comme un système. Outre les notions de base sur la linguistique générale, on y aborde les méthodes d'analyse phonétique, phonologique et morphologique du français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 330 ne peuvent obtenir de crédits pour ce cours.

FRAA 401 *Introduction à la linguistique française II* (3 crédits)

Préalable : FRAA 400 ou l'équivalent. Suite du FRAA 400, ce cours vise à poursuivre l'étude du système linguistique du français contemporain. Outre les notions de base sur la sociolinguistique et la linguistique de l'énonciation, il traite des méthodes d'analyse syntaxique, lexicale et sémantique du français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 331 ne peuvent obtenir de crédits pour ce cours.

FRAA 403 *Histoire de la langue française* (3 crédits)

Préalables : FRAA 400 ou 401 ou l'équivalent. Ce cours est une initiation à l'histoire interne et à l'histoire externe du français.

On étudiera, d'une part, les origines de cette langue et ses transformations au cours des siècles, sur les plans phonétique, orthographique, morphologique, syntaxique, lexical et sémantique et, d'autre part, l'évolution de sa situation dans le monde comme langue maternelle, langue seconde, langue de culture.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 333 ne peuvent obtenir de crédits pour ce cours.

FRAA 404 *Histoire de la langue française au Québec* (3 crédits)

Préalables : Six crédits parmi FRAN 320, FRAN 321, FRAA 400, FRAA 401, FRAA 403 ou l'équivalent. Aperçu de l'évolution du français au Québec, du XVII^e siècle à nos jours. Étude de la formation du français québécois et des influences internes et externes qu'il a subies au cours du temps. À l'aide de documents provenant d'époques successives, on s'attachera à définir ce qui caractérise les différents états du français parlé et écrit au Québec.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 466 ne peuvent obtenir de crédits pour ce cours.

FRAA 405 *Le code oratoire* (3 crédits)

Préalables : FRAN 305 et 321 ou l'équivalent. Ce cours avancé de langue s'adresse aux étudiantes et étudiants cherchant à acquérir une habileté à parler en public ou à la développer. Il porte à la fois sur la transmission et la création de discours oraux : étude des caractéristiques de la langue « oratoire »; acquisition des techniques et des moyens linguistiques appropriés pour établir une communication structurée et vivante avec un auditoire; introduction à la rhétorique et création de discours argumentatifs. Les séances de travaux pratiques permettent aux étudiantes et étudiants d'approfondir les techniques enseignées pendant le cours.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 404 ou 405 ou 408 ne peuvent obtenir de crédits pour ce cours.

FRAA 409 *Cours libre de traduction* (3 crédits)

Préalables : Six crédits parmi FRAN 306, FRAN 321, FRAA 410, FRAA 413; ou autorisation du département. Étude systématique des anglicismes; notions de méthodologie de la traduction; étude de quelques aspects de la stylistique comparée du français et de l'anglais; travaux pratiques de traduction de l'anglais au français.

N.B. : Ce cours est destiné particulièrement, mais non exclusivement, aux étudiantes et étudiants qui ne se spécialisent pas en traduction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 409 ne peuvent obtenir de crédits pour ce cours.

FRAA 410 *Grammaire du français en contextes* (3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours vise le perfectionnement des connaissances grammaticales et l'acquisition d'une excellente compréhension du fonctionnement de la langue française en tant que système. En analysant des documents de diverses natures, en produisant des textes et en présentant des exposés oraux, l'étudiante et l'étudiant seront amenés à effectuer des choix langagiers adaptés à différents contextes de communication.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 406 ne peuvent obtenir de crédits pour ce cours.

FRAA 411 *Écriture assistée par ordinateur* (3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours est fondé sur l'intégration des ressources informatiques à la pratique de l'écriture. Il permettra aux étudiantes et étudiants d'acquérir des compétences avancées dans l'utilisation du traitement de texte et d'autres outils de rédaction assistée par ordinateur (logiciels de PAO, correcteurs orthographiques et grammaticaux, aides à la rédaction) nécessaires à leur intégration au marché du travail. Il familiarisera l'étudiante et l'étudiant à la chaîne éditoriale et au travail collaboratif autour d'un document.

FRAA 412 *Grammaire de texte* (3 crédits)

Préalable : FRAN 321. Ce cours de communication écrite vise l'approfondissement des connaissances de la structuration du texte. L'accent est mis sur l'acquisition des règles spécifiques de la grammaire du texte qui dépassent le cadre d'une grammaire de la phrase. Dans cette perspective seront abordés des éléments tels que la reprise lexicale et pronominale, les articulateurs textuels et le rôle des paragraphes. Différentes organisations textuelles seront également analysées et ce, dans une perspective élargie de communication écrite.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 407 ne peuvent obtenir de crédits pour ce cours.

FRAA 413 *Rédaction I* (3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours est destiné à l'étudiante ou à l'étudiant qui possède déjà une connaissance approfondie de la langue française. Il vise l'apprentissage des exigences méthodologiques propres aux travaux universitaires en abordant l'élaboration d'un plan et d'une bibliographie ainsi que la rédaction de textes informatifs et argumentatifs. Par le biais d'exercices de lecture, de rappels grammaticaux et d'ateliers de rédaction, l'étudiante ou l'étudiant pourra corriger ses lacunes et apprendre à nuancer son expression.

FRAA 420 *Stylistique comparée* (3 crédits)

Préalable : FRAA 412 ou 413. Ce cours portera sur l'analyse des différences stylistiques, syntaxiques et socioculturelles qui régissent les différents types de textes en anglais et en français. Il permettra à l'étudiante ou à l'étudiant de mieux appréhender l'ensemble des rapports qui unissent les faits sociaux, culturels aux structures linguistiques, d'acquérir une expression écrite nuancée dans les divers champs de référence ou domaines de la culture contemporaine et d'être capable de transférer/traduire des procédés stylistiques d'une langue à l'autre.

FRAA 421 *Sémantique française* (3 crédits)

Préalable : FRAA 401. Étude formelle de la signification et de la segmentation du sens en français fondée sur une approche sémiotique de la langue. Les étudiantes et étudiants feront l'apprentissage de méthodes d'analyse leur permettant d'inventorier les effets de sens et de les ordonner en fonction de critères objectifs.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 469 ne peuvent obtenir de crédits pour ce cours.

FRAA 422 *Questions actuelles en linguistique française* (3 crédits)

Préalable : FRAN 321; trois crédits parmi FRAA 400, 401, 403, 404 ou l'équivalent. Ce cours propose l'étude d'un sujet particulier du domaine de la linguistique. Plus précisément, ce cours aborde des questions qui peuvent être rattachées au domaine de l'énonciation, de la sociolinguistique, des politiques linguistiques, du traitement automatique du langage ou d'autres domaines de recherche en linguistique. Des présentations théoriques, des ateliers d'observation ou des exercices d'application permettront à l'étudiante et à l'étudiant de mieux cerner la problématique abordée.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 471 ne peuvent obtenir de crédits pour ce cours.

FRAA 423 *Rédaction II* (3 crédits)

Préalable : FRAA 413 ou l'équivalent. Ce cours vise l'approfondissement des compétences rédactionnelles par l'apprentissage de techniques de recherche documentaire et de synthèse textuelle, et par l'écriture de textes combinant ces techniques comme le compte rendu critique, le dossier ou le texte de vulgarisation.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 403 ne peuvent obtenir de crédits pour ce cours.

FRAA 430 *Stylistique avancée* (3 crédits)

Préalable : FRAA 423 ou autorisation du département. Ce cours vise l'acquisition de procédés et techniques permettant à l'étudiante ou l'étudiant d'améliorer la concision, l'expressivité et la clarté de ses productions écrites. L'analyse de la façon dont l'organisation textuelle, les constituants syntaxiques, les procédés énonciatifs, lexicaux et rhétoriques concourent à modifier et nuancer le sens permettront à l'étudiante ou l'étudiant de rendre ses productions mieux adaptées à un registre, à un type d'écrit et à des visées sémantiques données. Ce cours alternera la présentation des connaissances théoriques avec le travail en atelier d'écriture et les exercices pratiques qui en permettront l'assimilation.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 470 ne peuvent obtenir de crédits pour ce cours.

FRAA 431 *Rédaction professionnelle* (3 crédits)

Préalable : FRAA 413 ou l'équivalent. Ce cours vise l'apprentissage de compétences propres à la rédaction professionnelle. Il aborde les différentes étapes d'élaboration d'un document ainsi que la rédaction de textes variés. Par le biais d'exercices grammaticaux, d'ateliers de rédaction et de travaux inspirés de situations réelles, l'étudiante ou l'étudiant pourra acquérir de l'autonomie dans la production de documents professionnels.

FRAA 432 *Écriture pour le Web* (3 crédits)

Préalables : FRAN 321 ou l'équivalent. Ce cours vise à familiariser l'étudiante ou l'étudiant aux techniques d'écriture pour le web et aux technologies associées à ce média. Il permettra de mieux comprendre ce que l'hypertexte et l'écrit sur support numérique impliquent du point de vue du traitement de l'information et des spécificités linguistiques et ergonomiques. Il vise à initier l'étudiante et l'étudiant à la création et à la traduction de pages et de sites web.

FRAA 440 *Création littéraire I* (3 crédits)

Préalable : FRAN 321 ou l'équivalent. Ce cours vise à sensibiliser l'étudiante ou l'étudiant aux exigences de l'écriture fictionnelle. Par le biais d'ateliers et de travaux d'écriture, il aborde, entre autres, les questions de langage, de rythme, de forme et de pensée qui soutiennent l'élaboration d'un univers fictionnel, que ce soit dans une nouvelle, un poème, une pièce de théâtre ou un autre genre.

FRAA 441 *Création littéraire II* (3 crédits)

Préalable : FRAA 413 ou 440 ou l'équivalent. Ce cours vise à approfondir les exigences de la création littéraire par le biais de lectures et d'ateliers d'écriture ainsi que par l'élaboration d'un projet individuel.

FRAA 491 Tutorat en langue, linguistique ou rédaction (3 crédits)

Préalables : 12 crédits de langue, de linguistique ou de rédaction au niveau « 400 ». Étude d'un sujet particulier dans le domaine de la langue, de la linguistique ou de la rédaction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 491 ne peuvent obtenir de crédits pour ce cours.

FRAA 492 Tutorat en langue, linguistique ou rédaction (3 crédits)

Préalables : 12 crédits de langue, de linguistique ou de rédaction au niveau « 400 ». Étude d'un sujet particulier dans le domaine de la langue, de la linguistique ou de la rédaction.

FRAA 493 Projet de rédaction (3 crédits)

Préalables : FRAA 430 et autorisation du département. Ce cours n'est ouvert qu'aux étudiantes et étudiants de la majeure en rédaction professionnelle. Il offre l'occasion d'approfondir un aspect particulier du domaine de la rédaction en permettant à l'étudiante ou l'étudiant de présenter un projet individuel en accord avec une professeure ou un professeur du département qui supervisera son travail tout au long de la session.

FRAA 498 Étude avancée d'un sujet particulier (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi le même sujet sous le numéro FRAN 498 ne peuvent obtenir de crédits pour ce cours.

Littérature

FLIT 220 Introduction aux textes littéraires (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Introduction à la lecture critique et aux caractéristiques des différents genres littéraires au moyen d'un choix de nouvelles, romans, pièces de théâtre, essais et poèmes de la francophonie.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 220 ne peuvent obtenir de crédits pour ce cours.

N.B. : Ce cours est réservé aux étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français.

FLIT 230 Introduction aux cultures de la francophonie (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Introduction aux diverses cultures de la francophonie et à leurs spécificités historiques, sociales et linguistiques.

N.B. : Les étudiantes et étudiants qui ont suivi FLIZ 230 ou FRAN 270 ne peuvent obtenir de crédits pour ce cours.

N.B. : Ce cours est réservé aux étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français.

FLIT 240 Introduction aux littératures de la francophonie (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Étude des littératures de la francophonie, lecture d'œuvres représentatives de leur diversité.

N.B. : Les étudiantes et étudiants qui ont suivi FLIZ 240 ou FRAN 271 ne peuvent obtenir de crédits pour ce cours.

N.B. : Ce cours est réservé aux étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français.

FLIT 250 Cultures populaires (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Étude comparée de la culture populaire dans les pays de la francophonie des années 1960 à nos jours : événements historiques, littérature, presse, mode, chanson, télévision, cinéma, publicité.

N.B. : Ce cours est réservé aux étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français.

FLIT 280 Introduction aux études littéraires (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Initiation aux études littéraires et notions et formation à l'analyse des œuvres. Apprentissage et formation aux approches, aux notions et aux outils qui permettent de développer l'appréciation des faits textuels en une démarche qui mène à mieux lire et comprendre les œuvres.

N.B. : Ce cours est réservé aux étudiantes et étudiants ayant effectué leurs études secondaires dans une langue autre que le français.

FLIT 298 Étude d'un sujet particulier (3 crédits)

Préalable : FRAN 213 ou 215 ou l'équivalent. Les sujets particuliers qui sont étudiés sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 298 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FLIT 300 Littérature et culture françaises du Moyen Âge au XVII^e siècle (3 crédits)

Aperçu général de la littérature française du Moyen Âge, de la Renaissance et du XVII^e siècle et du contexte historique, social et culturel qui a donné naissance aux œuvres de l'époque.

FLIT 302 *Littérature et culture françaises du XVIII^e siècle à aujourd’hui* (3 crédits)

Aperçu général de la littérature française du XVIII^e siècle à aujourd’hui et du contexte historique, social et culturel qui a donné naissance aux œuvres de ces diverses époques.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 322 ne peuvent obtenir de crédits pour ce cours.

FLIT 303 *Littérature et culture québécoises de 1534 à 1900* (3 crédits)

Panorama de la littérature québécoise, de la Nouvelle-France à la fin du XIX^e siècle, vue dans une perspective socio-historique. Par l'étude de textes significatifs, on retracera le processus historique de différenciation et d'affirmation collective des Québécoises et Québécois.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 251 ou 252 ne peuvent obtenir de crédits pour ce cours.

FLIT 305 *Littérature et culture québécoises de 1900 à aujourd’hui* (3 crédits)

Panorama de la littérature québécoise du début du XX^e siècle à aujourd’hui vue dans une perspective socio-historique. Étude des grandes étapes de la production littéraire avec, comme toile de fond, un aperçu général de l'histoire politique, économique, sociale et culturelle du Québec. Étude des principaux courants de pensée.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 251 ou 253 ne peuvent obtenir de crédits pour ce cours.

FLIT 308 *Littératures et cultures de la Francophonie* (3 crédits)

Étude de la culture de pays francophones (principalement de l'Afrique, des Antilles ou d'autres pays entièrement ou partiellement francophones). Ce cours a pour but, au moyen de documents imprimés et audio-visuels, de faire connaître les conditions socio-politiques de ces pays plutôt que l'histoire des faits exceptionnels.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 364 ne peuvent obtenir de crédits pour ce cours.

FLIT 310 *Le Moyen Âge* (3 crédits)

Introduction à la lecture des premières œuvres de la littérature française : chansons de geste, lais, romans, poésie, théâtre, fabliaux et nouvelles, chroniques et écrits didactiques. Présentation de leur contexte culturel : le monde féodal et la société urbaine, la culture savante et la culture populaire, les milieux intellectuels et artistiques.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 420 ne peuvent obtenir de crédits pour ce cours.

FLIT 312 *La Renaissance* (3 crédits)

Étude des mythes, des valeurs, des symboles qui structurent le monde mental des « acteurs » de la Renaissance française. Les cercles et les foyers de rayonnement intellectuel notables (la Cour, Lyon, les collèges) sont étudiés en détail.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 425 ne peuvent obtenir de crédits pour ce cours.

FLIT 314 *Le XVII^e siècle* (3 crédits)

Étude de la littérature du XVII^e siècle (baroque et classicisme) et de ses principales thématiques, à travers des œuvres de divers genres, notamment dramatique, romanesque et poétique.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 429 ne peuvent obtenir de crédits pour ce cours.

FLIT 316 *Lumières en France* (3 crédits)

Analyse de l'émergence d'un pouvoir intellectuel de plus en plus autonome en France au XVIII^e siècle, par rapport à l'Église, par rapport à l'État. Étude du cadre historique et littéraire dans lequel s'est formée et affirmée la philosophie des Lumières.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 432 ne peuvent obtenir de crédits pour ce cours.

FLIT 318 *Le XIX^e siècle I* (3 crédits)

Étude des principaux courants de la littérature de la première moitié du XIX^e siècle (romantisme, réalisme) et de leurs principales thématiques telles que les transformations sociales, historiques, politiques et économiques.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 418 ou FRAN 440 ne peuvent obtenir de crédits pour ce cours.

FLIT 319 *Le XIX^e siècle II* (3 crédits)

Étude des principaux courants de la littérature de la seconde moitié du XIX^e siècle (réalisme, naturalisme, Parnasse, décadence et symbolisme) et de leurs principales thématiques telles que le progrès, la science, les débats politiques, le rôle des femmes et le statut de la littérature.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 420 ne peuvent obtenir de crédits pour ce cours.

FLIT 320 *Le XX^e siècle I* (3 crédits)

Aperçu de la littérature française de la première moitié du XX^e siècle, une période marquée par une remise en question du roman réaliste, une succession tapageuse d'avant-gardes esthétiques et un désir de témoigner des angoisses existentielles suscitées par les bouleversements majeurs qui agitent l'Europe.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 422 ou FRAN 446 ne peuvent obtenir de crédits pour ce cours.

FLIT 321 *Le XX^e siècle II* (3 crédits)

Aperçu de la littérature française de l'après-guerre à aujourd'hui, une période marquée par un désenchantement croissant face aux « grands récits » historiques, une reconfiguration ludique des genres et des structures ainsi qu'une volonté de décloisonnement et de métissage (légitimation des parallittératures, émergence de revendications identitaires, ouverture à la littérature migrante et mondiale).

N.B. : Il n'est pas nécessaire d'avoir suivi le FLIT 320 pour s'inscrire à ce cours.

FLIT 341 *Le roman québécois jusqu'en 1960* (3 crédits)

La pratique romanesque de 1900 à 1960 dans la réalité socio-politique et culturelle. Du roman de la fidélité au roman de l'interrogation, en passant par le roman d'observation, le roman de la critique sociale et le roman de l'exploration intérieure. (Re)lecture des œuvres marquantes dont plusieurs, grâce à la radio, au cinéma et à la télévision, ont joué un rôle important dans la formation de l'imaginaire québécois.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 352 ne peuvent obtenir de crédits pour ce cours.

FLIT 343 *Le roman québécois contemporain* (3 crédits)

La pratique romanesque depuis la Révolution tranquille : évolutions et orientations. On insistera sur les aspects suivants : rupture, modernité et post-modernité; poétique et politique; diversité des pratiques : des recherches formelles aux « belles histoires »; éclatement de l'espace fictionnel, sous la poussée notamment des écritures de femmes et des écritures (im)migrantes. La lecture de textes marquants sera proposée aux étudiants et étudiantes.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 353 ne peuvent obtenir de crédits pour ce cours.

FLIT 345 *Littérature québécoise depuis 1980* (3 crédits)

Étude des évolutions et des orientations de la production littéraire québécoise depuis les années 1980 à travers l'analyse d'œuvres de différents genres (roman, théâtre, poésie, essai).

FLIT 349 *L'essai au Québec* (3 crédits)

Étude des grands thèmes et de l'évolution des formes de la pensée québécoise à travers l'essai. Analyse des regards pluriels portés sur la culture, la politique. Évaluation de ces composantes mouvantes dans la configuration de la société québécoise actuelle. Lecture d'œuvres représentatives.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 358 ne peuvent obtenir de crédits pour ce cours.

FLIT 351 *Le théâtre québécois* (3 crédits)

Évolution du théâtre québécois, théories et pratiques. Identification et étude des principaux axes de son développement. Situation du théâtre dans le réseau des discours esthétiques et socio-culturels. Étude de pièces et de dramaturges marquants.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 345 ou 347 ne peuvent obtenir de crédits pour ce cours.

FLIT 360 *Littérature de la francophonie au féminin* (3 crédits)

Introduction à l'écriture des femmes francophones, principalement d'Afrique et des Caraïbes ou d'autres pays entièrement ou partiellement francophones. Analyse du regard particulier qu'elles posent sur elles-mêmes et sur la société. Étude des rapports qu'elles entretiennent avec le français (langue maternelle, langue d'usage, langue imposée...). Évaluation de l'apport spécifique de ces femmes à la littérature de leur pays.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 360 ne peuvent obtenir de crédits pour ce cours.

FLIT 362 *Littérature maghrébine* (3 crédits)

Histoire de la littérature marocaine, algérienne et tunisienne écrite directement en français par des écrivains d'origine arabe ou berbère. Marquée par les influences combinées de la culture française et de l'Islam, cette littérature sera étudiée dans son développement et sa spécificité. Lecture et analyse d'œuvres marquantes datant de l'époque coloniale jusqu'à nos jours.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 256 ne peuvent obtenir de crédits pour ce cours.

FLIT 364 *Littératures africaine et antillaise* (3 crédits)

Histoire et développement de la littérature de langue française des Antilles et d'Afrique subsaharienne au XX^e siècle. Issue de l'époque coloniale, cette littérature sera étudiée en fonction de la grande mutation des années soixante et de la problématique géopolitique des années qui ont suivi les indépendances. Lecture et analyse d'œuvres marquantes provenant de divers pays membres de la francophonie.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 257 ne peuvent obtenir de crédits pour ce cours.

FLIT 382 *Le monde du cinéma français* (3 crédits)

Ce cours, abondamment illustré de films ou d'extraits de films, étudie à la fois la relation qui s'est établie, depuis plus de cent ans, entre le cinéma français et les cultures de langue française, et l'impact de ce cinéma sur celle-ci. Ce cours analyse aussi les différences, similitudes, points de tension et de rencontre entre ce cinéma et les autres cinémas nationaux.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 373 ou 374 ne peuvent obtenir de crédits pour ce cours.

FLIT 398 *Étude d'un sujet particulier* (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.
N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 398 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FLIT 424 *La littérature française actuelle* (3 crédits)

Aperçu de la littérature française des trente dernières années, marquée par plusieurs phénomènes, dont la reconfiguration des genres et des structures, la post-modernité, l'écriture au féminin, la revendication de la différence, la réhabilitation du « polar », la remise en question de la théorie et l'émergence d'une multi-culture qui témoigne des phénomènes migratoires inhérents au « village global ».

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 448 ne peuvent obtenir de crédits pour ce cours.

FLIT 443 *La poésie québécoise* (3 crédits)

Histoire de la poésie de langue française au Québec, des origines à nos jours. Étude des mouvements et des formes à travers le temps, et lecture des œuvres les plus significatives. On insistera sur l'émergence progressive de la modernité et sur la spécificité des thèmes du répertoire poétique québécois, au confluent de l'histoire et des bouleversements sociaux.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 354 ou 355 ne peuvent obtenir de crédits pour ce cours.

FLIT 446 *Littératures populaires* (3 crédits)

Ce cours propose l'étude des littératures populaires d'expression française à travers l'analyse des thématiques, des structures et des modalités de réception.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 445 ne peuvent obtenir de crédits pour ce cours.

FLIT 447 *Les Voix de Montréal* (3 crédits)

À travers des textes d'écrivaines et d'écrivains montréalais, on cherchera à rendre compte de la dimension plurielle de l'écriture et de la culture québécoises. On privilégiera les parcours transculturels des auteures et auteurs venus d'un ailleurs géographique et culturel, mais qui inscrivent leurs différences dans le texte québécois par la publication ou la traduction de leurs œuvres en français.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 460 ne peuvent obtenir de crédits pour ce cours.

FLIT 449 *Littérature québécoise – Canadian Literature* (3 crédits)

Étude comparée des littératures québécoise et canadienne-anglaise. Analyse thématique, idéologique et stylistique. Examen des similitudes, des analogies et des traits distinctifs. Textes choisis à la fois parmi les œuvres traditionnelles et les œuvres contemporaines.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 455 ou 456 ne peuvent obtenir de crédits pour ce cours.

FLIT 451 *Imaginaires, mythes et symboles* (3 crédits)

Ce cours décrit et analyse l'évolution de grands symboles et archétypes de l'imaginaire des littératures d'expression française.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 441 ne peuvent obtenir de crédits pour ce cours.

FLIT 452 *Littérature pour la jeunesse* (3 crédits)

Évolution de la littérature produite ou adaptée pour la jeunesse, du XVII^e siècle à aujourd'hui. Son état actuel, rapports avec la littérature générale : aspects éthiques, esthétiques et didactiques. Étude approfondie d'œuvres marquantes de la francophonie, particulièrement au Québec.

FLIT 454 *Histoire du livre et de l'édition* (3 crédits)

Introduction à l'histoire du livre, du manuscrit au numérique. Le livre sera situé dans son contexte culturel, social et économique et on observera l'évolution des conditions de production et de diffusion. Différentes questions pourront être abordées, parmi lesquelles les métiers du livre, les rapports entre éditeur et auteur, l'édition au Québec et au Canada.

FLIT 456 *Textes et résonances médiatiques* (3 crédits)

Étude de la relation entre le texte et ses dimensions médiatiques en abordant une ou plusieurs périodes historiques ainsi qu'une thématique particulière (relations aux images, supports, médias, hypertexte, etc.). Analyse des rapports entre l'écrit et sa diffusion en posant la question de la relation de l'un à l'autre, de leur influence mutuelle et des transformations qui résultent de leur enchevêtrement.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 380 ne peuvent obtenir de crédits pour ce cours.

FLIT 462 *Littératures coloniales et postcoloniales* (3 crédits)

Analyse de textes clés publiés au cours du XIX^e et du XX^e siècle, en contexte colonial français, mais aussi à la lumière du courant postcolonial, et de textes publiés de la fin de l'empire colonial français à nos jours, ouvrant à des réflexions sur la tradition anti-impérialiste, les subaltern studies et une lecture de la mondialisation.

FLIT 464 *Littératures mondiales contemporaines* (3 crédits)

Étude de quelques textes littéraires fondamentaux (d'expression française ou en traduction) qui sous-tendent les interrogations contemporaines.

FLIT 466 *Littératures des Amériques* (3 crédits)

Ce cours étudie des textes littéraires francophones ou en version française des Amériques (Québec, Canada, États-Unis, Caraïbes, Amérique latine) et analyse des représentations, interactions, hybridations et évolutions de ces littératures.

FLIT 471 *La littérature québécoise au féminin* (3 crédits)

Étude des principales écrivaines québécoises et de l'évolution de la conscience féminine. Analyse de la représentation qu'elles font d'elles-mêmes et du monde, de leurs modes d'expression et de l'influence du féminisme sur le littéraire. Textes choisis dans l'ensemble de la production des femmes, avec une attention particulière à l'écriture des jeunes écrivaines.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 451 ne peuvent obtenir de crédits pour ce cours.

FLIT 472 *La littérature française au féminin* (3 crédits)

Études d'œuvres de la littérature française au féminin. Analyse de la représentation que les écrivaines font d'elles-mêmes et du monde, de leurs modes d'expression et de l'influence du féminisme sur le littéraire.

N.B. : Les étudiantes et étudiants qui ont suivi FLIT 474 ou FRAN 476 ne peuvent obtenir de crédits pour ce cours.

FLIT 475 *Idées sur le monde contemporain* (3 crédits)

Étude de textes de théoriciens et essayistes francophones reconnus dont les travaux et la pensée ont marqué la critique littéraire contemporaine.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 479 ne peuvent obtenir de crédits pour ce cours.

FLIT 477 *Corpus contemporains* (3 crédits)

Étude d'œuvres de langue française et de pratiques actuelles qui explorent divers aspects du texte littéraire : formes d'écriture, supports autres que le livre, modalités d'interaction, statuts de l'auteur et du texte.

FLIT 494 *Tutorat en littérature* (3 crédits)

Préalables : 12 crédits en littérature et autorisation du département. Étude d'un sujet particulier dans le domaine de la littérature.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 494 ne peuvent obtenir de crédits pour ce cours.

FLIT 495 *Tutorat en littérature* (3 crédits)

Préalables : 12 crédits en littérature et autorisation du département. Étude d'un sujet particulier dans le domaine de la littérature.

N.B. : Toute étudiante et tout étudiant s'inscrivant pour la seconde fois au cours FLIT 494 obtient les crédits FLIT 495.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 495 ne peuvent obtenir de crédits pour ce cours.

FLIT 496 *Recherche dirigée* (6 crédits)

Préalables : 12 crédits dans la spécialité et autorisation du département. Ce cours n'est ouvert qu'aux étudiantes et étudiants des programmes de majeure, de spécialisation ou d'honneurs. Il offre l'occasion d'approfondir l'étude d'un sujet à déterminer par l'étudiante ou l'étudiant en accord avec sa conseillère ou son conseiller et/ou une professeure ou un professeur du département. Chaque étudiante et étudiant exécute des travaux individuels sous le contrôle de la professeure ou du professeur spécialiste de la matière.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 496 ne peuvent obtenir de crédits pour ce cours.

FLIT 498 *Étude d'un sujet particulier* (3 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours FRAN 498 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

Traduction

FTRA 200 *Méthodologie de la traduction* (3 crédits)

Préalables : ENGL 207 et FRAN 306 ou équivalent. Ce cours a pour but d'initier l'étudiante et l'étudiant aux problèmes de la traduction. Il sera une introduction générale aux différentes approches du texte à traduire : analyse du discours, grammaire contrastive, stylistique comparée, terminologie et recherche documentaire.

N.B. : Ce cours comporte plusieurs sections, les unes réservées aux étudiantes et étudiants de l'option française, les autres à celles et ceux de l'option anglaise.

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 200 ne peuvent obtenir de crédits pour ce cours.

FTRA 201 *Traduction générale du français à l'anglais I* (3 crédits)

Préalable : FTRA 200. Traduction du français à l'anglais de textes généraux et analyse des problèmes liés au transfert linguistique. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 201 ou 202 ne peuvent obtenir de crédits pour ce cours.

FTRA 202 *Traduction générale de l'anglais au français I* (3 crédits)

Préalable : FTRA 200. Traduction de l'anglais au français de textes généraux et analyse des problèmes liés au transfert linguistique. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 201 ou 202 ne peuvent obtenir de crédits pour ce cours.

FTRA 203 *L'anglais en contact avec le français au Québec* (3 crédits)

Ce cours s'adresse aux étudiantes et étudiants anglophones en traduction, langue, littérature et rédaction. Il les sensibilisera aux problèmes liés au contact de l'anglais avec le français au Québec et leur permettra de corriger leurs propres erreurs de façon systématique. Le cours est axé sur la langue écrite et on travaillera uniquement sur des textes journalistiques.

FTRA 204 *Le français en contact avec l'anglais au Québec* (3 crédits)

Ce cours s'adresse aux étudiantes et étudiants francophones en traduction, langue, littérature et rédaction. Il les sensibilisera aux problèmes liés au contact du français avec l'anglais au Québec et leur permettra de corriger leurs propres erreurs de façon systématique. Le cours est axé sur la langue écrite et on travaillera uniquement sur des textes journalistiques.

FTRA 207 *Traduction générale du français à l'anglais II* (3 crédits)

Préalable : FTRA 200. Ce cours s'adresse aux étudiantes et étudiants anglophones et porte sur la traduction du français à l'anglais de textes généraux, et sur l'analyse des problèmes liés au transfert linguistique. (A)

FTRA 208 *Traduction générale de l'anglais au français II* (3 crédits)

Préalable : FTRA 200. Ce cours s'adresse aux étudiantes et étudiants francophones et porte sur la traduction de l'anglais au français de textes généraux, et sur l'analyse des problèmes liés au transfert linguistique. (F)

FTRA 298 *Étude d'un sujet particulier* (3 crédits)

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 298 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 299 *Étude d'un sujet particulier* (6 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 299 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 301 *Traduction littéraire du français à l'anglais* (3 crédits)

Préalable : FTRA 201. Sensibilisation aux problèmes spécifiques à la traduction littéraire. Travaux pratiques : traduction de textes de genres variés. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 301 ou 302 ne peuvent obtenir de crédits pour ce cours.

FTRA 304 *Traduction littéraire de l'anglais au français* (3 crédits)

Préalable : FTRA 202. Sensibilisation aux problèmes spécifiques à la traduction littéraire. Travaux pratiques : traduction de textes de genres variés. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 303 ou 304 ne peuvent obtenir de crédits pour ce cours.

FTRA 305 *Initiation à la traduction économique du français à l'anglais* (3 crédits)

Préalable : FTRA 207. Sensibilisation aux problèmes que pose dans le domaine de l'économie la traduction du français à l'anglais. (A)

FTRA 306 *Initiation à la traduction économique de l'anglais au français* (3 crédits)

Préalable : FTRA 208. Sensibilisation aux problèmes que pose dans le domaine de l'économie la traduction de l'anglais au français. (F)

FTRA 310 *Initiation à la recherche documentaire et terminologique* (3 crédits)

Préalable : FTRA 201 ou 202. Le cours fournit les outils permettant de repérer les problèmes de terminologie en traduction. Sont traités : les cheminement documentaire et terminologique (terminologie bilingue ou unilingue, langues de spécialités); la création de produits terminographiques (surtout thématiques); l'intervention linguistique et ses modalités (perspective sociolinguistique). (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 310 ne peuvent obtenir de crédits pour ce cours.

FTRA 398 *Étude d'un sujet particulier* (3 crédits)

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 398 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 399 *Étude d'un sujet particulier* (6 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 399 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 401 *Traduction littéraire avancée : du français à l'anglais* (3 crédits)

Préalable : FTRA 301. Étude des différents principes et des différentes techniques de la traduction littéraire; aperçu de la traduction littéraire au Canada. Travaux pratiques : analyse critique et comparaison de traductions et de leur original; traduction de textes français. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 401 ne peuvent obtenir de crédits pour ce cours.

FTRA 402 *Traduction littéraire avancée : de l'anglais au français* (3 crédits)

Préalable : FTRA 304. Étude des différents principes et des différentes techniques de la traduction littéraire; aperçu de la traduction littéraire au Canada. Travaux pratiques : analyse critique et comparaison de traductions et de leur original; traduction de textes anglais. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 402 ne peuvent obtenir de crédits pour ce cours.

FTRA 403 *Traduction scientifique et technique du français à l'anglais* (3 crédits)

Préalable : FTRA 201. Initiation aux différents problèmes de la traduction dans les langues de spécialités scientifiques et techniques (français-anglais). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 403 ne peuvent obtenir de crédits pour ce cours.

FTRA 404 *Traduction scientifique et technique de l'anglais au français* (3 crédits)

Préalable : FTRA 202. Initiation aux différents problèmes de la traduction dans les langues de spécialités scientifiques et techniques (anglais-français). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 404 ne peuvent obtenir de crédits pour ce cours.

FTRA 405 *Traduction commerciale et juridique du français à l'anglais* (3 crédits)

Préalable : FTRA 201. Initiation aux différents problèmes de la traduction dans les langues de spécialités de l'administration, du commerce et du droit (français-anglais). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé en traduction. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 405 ne peuvent obtenir de crédits pour ce cours.

FTRA 406 *Traduction commerciale et juridique de l'anglais au français* (3 crédits)

Préalable : FTRA 202. Initiation aux différents problèmes de la traduction dans les langues de spécialités de l'administration, du commerce et du droit (anglais-français). Le cours est divisé en plusieurs parties, chaque partie correspondant à un domaine spécialisé. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 406 ne peuvent obtenir de crédits pour ce cours.

FTRA 408 *Adaptation publicitaire* (3 crédits)

Préalable : FTRA 201 ou 202. Initiation à l'adaptation de textes publicitaires. À partir d'exemples empruntés à la publicité écrite, radiophonique ou télévisée, les étudiantes et étudiants seront amenés à se familiariser avec les problèmes linguistiques, affectifs et sociaux soulevés par le travail d'adaptation. (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 408 ne peuvent obtenir de crédits pour ce cours.

FTRA 409 *Révision et correction en traduction* (3 crédits)

Préalable : FTRA 301 ou 305. Ce cours abordera les différentes méthodes de révision et de correction de textes rédigés ou traduits en anglais; il sensibilisera les étudiantes et étudiants aux aspects humains et techniques du métier de réviseure et réviseur; on touchera aussi aux problèmes de l'évaluation de la qualité des traductions. (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 409 ou 410 ne peuvent obtenir de crédits pour ce cours.

FTRA 410 *Révision et correction en traduction* (3 crédits)

Préalable : FTRA 304 ou 306. Ce cours abordera les différentes méthodes de révision et de correction de textes rédigés ou traduits en français; il sensibilisera les étudiantes et étudiants aux aspects humains et techniques du métier de réviseure et réviseur; on touchera aussi aux problèmes de l'évaluation de la qualité des traductions. (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 409 ou 410 ne peuvent obtenir de crédits pour ce cours.

FTRA 411 *Terminologie et mondialisation* (3 crédits)

Préalable : FTRA 310. Le cours porte sur certains points fins en terminologie et en terminographie modernes : synonymie, marques sociolinguistiques, néonymie, normalisation et internationalisation. Il traite spécifiquement du rôle de la terminologie dans la gestion de l'information unilingue et multilingue dans les entreprises et dans les organismes nationaux et internationaux. L'aspect pratique prend, entre autres, la forme de rédaction de rapports de recherche et l'utilisation d'outils terminotiques. (F/A)

FTRA 412 *Théories de la traduction* (3 crédits)

Préalable : FTRA 301 ou 304 ou 305 ou 306. Ce cours est une initiation aux différentes théories actuelles de la traduction. Est examiné l'apport de secteurs disciplinaires clés tels que la linguistique, la sémiotique, la sociocritique, dans le développement de la traductologie moderne. (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 412 ne peuvent obtenir de crédits pour ce cours.

FTRA 414 *Histoire de la traduction* (3 crédits)

Préalable : FTRA 301 ou 304 ou 305 ou 306. Cours d'initiation à l'histoire de la traduction où sont traités les grands courants de la traduction depuis l'Antiquité classique. Sera également abordée la traduction dans certaines sociétés non occidentales. On procèdera par thèmes et par aires géographiques en mettant l'accent sur les époques clés de grands changements politiques et culturels. (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 414 ne peuvent obtenir de crédits pour ce cours.

FTRA 416 *Informatique et traduction* (3 crédits)

Préalables : FTRA 201 ou 202, et connaissance du traitement de textes. Ce cours porte sur la langue de l'informatique, la théorie et les concepts fondamentaux qui s'y rapportent. Il comporte des exercices de traduction, et une initiation aux outils informatisés pour les traducteurs : Internet, bases de données, systèmes de traduction assistée, utilitaires. (F/A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 416 ne peuvent obtenir de crédits pour ce cours.

FTRA 418 *Web, technologies, traduction : théories et critiques* (3 crédits)

Préalable : FTRA 412 ou 414. Ce cours porte sur la réflexion théorique et épistémologique des pratiques contemporaines issues du contexte de la mondialisation par rapport aux technologies, au Web multilingue et à la traduction. Sont examinés les aspects et les enjeux culturels, sociaux, linguistiques, scientifiques, techniques, philosophiques, institutionnels, politiques et idéologiques. Le cours comporte des discussions hebdomadaires et un travail approfondi de recherche sur l'analyse des courants actuels des technologies et du Web en mettant l'accent sur la traduction et la communication mondiale.

N.B. : Les étudiantes et étudiants qui ont suivi le même sujet sous le numéro FTRA 498 ne peuvent obtenir de crédits pour ce cours.

FTRA 420 *Stage de formation : de l'anglais au français* (6 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et tous les candidats.) (F)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 420 ne peuvent obtenir de crédits pour ce cours.

FTRA 421 Stage de formation : du français à l'anglais (6 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et tous les candidats.) (A)

N.B. : Les étudiantes et étudiants qui ont suivi TRAD 421 ne peuvent obtenir de crédits pour ce cours.

FTRA 422 Stage de formation : de l'anglais au français I (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (F)

FTRA 423 Stage de formation : du français à l'anglais I (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (A)

TRA 424 Stage de formation : de l'anglais au français II (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction de l'anglais au français et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (F)

FTRA 425 Stage de formation : du français à l'anglais II (3 crédits)

Préalables : 60 crédits en traduction et autorisation de la coordinatrice ou du coordinateur des stages. Le stage a pour but d'initier l'étudiante ou l'étudiant à l'activité professionnelle dans le domaine de la traduction du français à l'anglais et de lui faire connaître le monde du travail. (Le département fera tout son possible pour faciliter l'obtention d'un stage mais ne peut s'engager à trouver un stage pour toutes les candidates et candidats.) (A)

FTRA 452 Traduction automatique (TA) et traduction assistée par ordinateur (TAO) (3 crédits)

Préalables : FTRA 416. Ce cours permet d'analyser les aspects morphologiques, lexicaux, syntaxiques et sémantiques des systèmes de traduction automatisée. L'étudiante et l'étudiant apprennent à appliquer les concepts analysés à un système commercialisé. Ils évaluent des traductions machine, font des exercices simples de programmation portant sur des problèmes linguistiques; ils appliquent des outils de gestion et de traduction au matériel à localiser à l'aide de logiciels de localisation, de logiciels de terminologie, et de mémoires de traduction.

FTRA 455 Gestion de projets (3 crédits)

Préalables : 12 crédits FTRA. Ce cours traite de la gestion des projets de traduction/localisation multilingues, depuis la rédaction de l'offre de services, jusqu'au contrôle de la qualité et la livraison, en passant par la résolution de problèmes et la gestion en situation de crise. Il comprend une partie théorique et des mises en situation. Les étudiantes et étudiants se familiarisent avec l'évaluation des ressources (humaines et matérielles) nécessaires pour exécuter le travail, l'élaboration d'échéanciers et le suivi d'un budget. Ils apprennent à gérer les ressources affectées aux projets afin de pouvoir respecter le mandat qui leur est confié.

FTRA 458 Pratique de la localisation (3 crédits)

Préalables : 12 crédits FTRA. L'étudiante et l'étudiant étudieront dans ce cours les stratégies de localisation et les processus de localisation : la localisation de logiciels et la localisation de sites web; les acteurs dans les projets de localisation; la situation et le travail du traducteur dans les projets de localisation; les types de fichiers à localiser : ressources, code source, fichiers d'aide, guides imprimés, matériel marketing; les types de logiciels localisés : logiciels système, logiciels de gestion, logiciels client, logiciels multimédia, logiciels web.

FTRA 492 Tutorat en traduction (3 crédits)

Préalables : 12 crédits de traduction au niveau « 400 » et permission du département. Étude d'un sujet particulier dans le domaine de la traduction.

N.B. : Les étudiantes et étudiants qui ont suivi FRAN 492 ne peuvent obtenir de crédits pour ce cours.

FTRA 498 Étude avancée d'un sujet particulier (3 crédits)

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 498 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

FTRA 499 Étude avancée d'un sujet particulier (6 crédits)

Les préalables de ces cours, ainsi que les sujets particuliers qui y sont étudiés, sont indiqués dans le *Undergraduate Class Schedule*.

N.B. : Les étudiantes et étudiants qui ont suivi un cours TRAD 499 ayant le même contenu ne peuvent obtenir de crédits pour ce cours.

31.120

EXERCISE SCIENCE

Faculty

Chair

RICHARD COURTEMANCHE, PhD Montr., Associate Professor

Professors

ROBERT D. KILGOUR, PhD Flor.State
ROBIN N. MICHEL, PhD Montr.

Associate Professors

SIMON L. BACON, PhD Birm.
RICHARD DEMONT, PhD Pitt.
ALAIN LEROUX, PhD McG.
DAVID L. PARIS, PhD Ore.

Assistant Professors

TRACIE BARNETT, PhD Montr.
ANDREAS BERGDAHL, PhD Lund
THANH DANG-VU, MD PhD Liège, Belgium
PETER J. DARLINGTON, PhD W.Ont.
GEOFFREY DOVER, PhD Flor.
VÉRONIQUE PÉPIN, PhD Ariz.State
SYLVIA SANTOSA, PhD McG.
NANCY ST-ONGE, PhD Montr.

Lecturer

ROBERT PANENIC, MA McG.

Affiliate Professors

ROBERT BOUSHEL, DSc Boston
STELLA DASKALOPOULOU, MD, PhD Athens
KIM LAVOIE, PhD C'dia.
RICHARD POUND, LLD C'dia.

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Richard J. Renaud Science Complex, Room: SP 165
514-848-2424, ext. 3327

Department Objectives

The Department of Exercise Science is committed to teaching and research in the areas of exercise, health, and physical activity while emphasizing the fields of athletic therapy and clinical exercise physiology. The curriculum permits students to explore the biomechanical and physiological responses to physical activity of healthy individuals and persons with a variety of pathologies and disabilities. Lectures and laboratories are combined with supervised involvement in research, and community and professional activities. Students are provided with an education which is compatible with obtaining employment in the health and fitness field or continuing their studies in health-related professional or graduate schools.

The BSc Honours, Specialization, and Major programs in Exercise Science provide students with the opportunity to acquire essential knowledge and a strong foundation in the field of exercise science. Students are exposed to a concentrated series of courses that incorporate the application of biological sciences to exercise, physical activity, and health-related areas including athletic therapy and clinical exercise physiology.

The fundamental concepts associated with Clinical Exercise Physiology (CEP) include the adaptation of traditional exercise forms, assessment techniques, and training protocols which address the needs of individuals with a disease or functional disability

(e.g. heart disease, diabetes, neurological disorders). Students entering the field of CEP acquire an appreciation of persons with a disability, their lifestyle, and their exercise possibilities. The form of exercise application ranges from adapted physical activities to competitive sports.

The BSc Specialization in Exercise Science/Athletic Therapy is accredited by the Canadian Athletic Therapists Association (CATA) and is directed toward the preparation of students seeking to become a Certified Athletic Therapist in Canada (CAT[C]). A CAT(C) is devoted to the health care of physically active individuals. The scope of practice of the CATA includes prevention, immediate care, and reconditioning of musculoskeletal injuries. Some of the techniques used to accomplish prevention of injury are postural evaluation, conditioning, and providing prophylactic support. Immediate care and rehabilitation of musculoskeletal injury consist of injury assessment, first aid and emergency care, exercise and modality therapy, and preparing individuals for safe return to physical activity or athletic participation. Student members (certification candidates) of the CATA must fulfill the academic and practical requirements of a program accredited by the CATA in order to enter the CATA certification exam process. The Department of Exercise Science offers one of seven such programs in Canada.

While the major offers core applied-science, health, and fitness courses, the BSc Honours also introduces undergraduate students to research concepts and protocols. The AT and CEP Specializations offer courses providing a theoretical knowledge base in the respective areas of study.

Programs

Students are required to complete the appropriate profile for entry into the Exercise Science programs (see §31.002 — Programs and Admission Requirements — Profile). Students entering the major and specialization programs should refer to §16.3.11 — Academic Performance, and §31.003.1 — WGPA Requirements. Students considering entry into the honours program should refer to §16.2.3 — Concentration Requirements.

Application Procedures

All newly admitted students enter the BSc Major in Exercise Science. Admission to the BSc Honours in Exercise Science, BSc Specialization in Exercise Science/Athletic Therapy or BSc Specialization in Exercise Science/Clinical Exercise Physiology is by internal transfer only. Upon completion of a specified list of courses, any student may submit a request for an internal transfer.

Eligibility Requirements for Internal Transfer

To be eligible to transfer from the BSc Major into the BSc Honours program, the following courses must be completed with a minimum GPA of 3.30: EXCI 250, 252, 253, 254, 257 and CATA 262.

To be eligible to transfer from the BSc Major into the BSc Specialization in Exercise Science/Athletic Therapy or the BSc Specialization in Exercise Science/Clinical Exercise Physiology, the following courses must be completed with a minimum GPA of 3.00: EXCI 210, 250, 252, 253, 254, 257; CATA 262 and 263. Due to the limited number of internship site placements in Athletic Therapy and Clinical Exercise Physiology, not all students with a minimum of 3.00 are guaranteed transfer into the specialization.
NOTE: Those students who fail to complete all the required courses for transfer or fail to achieve at least a minimum GPA of 3.30 for the honours program or 3.00 for the specialization program in the first year of study will not be considered for transfer. These students will remain registered in the BSc Major in Exercise Science.

NOTE: Students enrolled in the BSc Specialization in Exercise Science/Athletic Therapy or the BSc Specialization in Exercise Science/Clinical Exercise Physiology must maintain a cumulative GPA of not less than 3.00 calculated for courses required within their program. Any student who is unable to meet this GPA requirement will be removed from his/her program and placed in the BSc Major in Exercise Science.

Internship Eligibility Requirements

To be eligible to register for an internship, students must complete the following internship eligibility requirements specific to each internship course.

To be eligible to register for the Athletic Therapy Field Internship I (CATA 365⁶) the following prerequisite courses must be completed:
BIOL 201³ or equivalent
CATA 262³, 263³
CHEM 205³, 206³ or equivalent
EXCI 250³, 252³, 253³, 254³, 257³
MATH 203³, 205³ or equivalent
PHYS 204³, 224¹ or equivalent

To be eligible for the Athletic Therapy Field Internship II (CATA 485³) the following prerequisite course must be completed:
CATA 365⁶

To be eligible to register for the Athletic Therapy Clinical Internship I (CATA 475⁶) the following prerequisite courses must be completed:
CATA 337³, 339³, 348³, 365⁶
EXCI 351³, 352³, 355³, 357³, 358³
PHYS 205³, 225¹ or equivalent

To be eligible to register for the Athletic Therapy Clinical Internship II (CATA 495³) the following prerequisite courses must be completed:

PHYS 206³, 226¹ or equivalent

EXCI 445³, 451³

CATA 437³, 439³, 475⁶

To be eligible to register for the Clinical Exercise Physiology Internship I (EXCI 383³) the following prerequisite courses must be completed:

BIOL 201³ or equivalent

CATA 262³

CHEM 205³, 206³, or equivalent

EXCI 210³, 250³, 252³, 253³, 254³, 257³, 380³

MATH 203³, 205³ or equivalent

PHYS 204³, 224¹ or equivalent

To be eligible to register for the Clinical Exercise Physiology Internship II (EXCI 483³) the following prerequisite courses must be completed:

EXCI 351³, 352³, 355³, 357³, 358³, 383³, 422³ (previously or concurrently)

PHYS 205³, 225¹ or equivalent

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BSc Honours in Exercise Science

Stage I

18 EXCI 250³, 252³, 253³, 254³, 257³; CATA 262³

Stage II

21 EXCI 322³, 323³, 351³, 352³, 355³, 357³, 358³

Stage III

18 EXCI 420³, 424³, 425³, 426⁶, 445³

3 Chosen from EXCI 440³, 453³, 455³, 458³

NOTE: Students seeking admission to the honours program must apply to the Department Honours Committee normally following the completion of 24 program credits. Students must meet the University regulations concerning the honours degree (§16.2.3). For additional information concerning programs and courses, students should consult the Department.

96 BSc Specialization in Exercise Science/Athletic Therapy

Stage I

24 CATA 262³, 263³; EXCI 210³, 250³, 252³, 253³, 254³, 257³

Stage II

30 CATA 337³, 339³, 348³, 365⁶; EXCI 351³, 352³, 355³, 357³, 358³

Stage III

18 CATA 437³, 439³, 475⁶; EXCI 445³, 451³

3 Chosen from EXCI 420³, 422³, 423³, 440³, 461³

Stage IV

15 CATA 441³, 462³, 485³, 495³; EXCI 471³

6 Chosen from CATA 447³; EXCI 450³, 455³, 458³, 492³; MANA 300³

66 BSc Specialization in Exercise Science/Clinical Exercise Physiology

Stage I

24 EXCI 210³, 250³, 252³, 253³, 254³, 257³; CATA 262³, 263³

Stage II

21 EXCI 351³, 352³, 355³, 357³, 358³, 380³, 383³

Stage III

18 EXCI 422³, 423³, 445³, 450³, 451³, 483³

3 Chosen from EXCI 420³, 440³, 455³, 458³, 492³

42 BSc Major in Exercise Science

Stage I

18 EXCI 250³, 252³, 253³, 254³, 257³; CATA 262³

Stage II

15 EXCI 351³, 352³, 355³, 357³, 358³

Stage III

6 EXCI 420³, 445³

3 Chosen from EXCI 440³, 450³, 453³, 455³, 458³, 492³

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

CATA:

CATA 262 Emergency Care in Sport and Exercise (3 credits)

Prerequisite: EXCI 253 previously or concurrently. This course identifies common emergency situations in the athletic environment, and provides theoretical and practical components of management skills to safely deal with these situations. Specific signs and symptoms of basic emergency conditions are discussed. Planning of events to prepare for sport-related emergencies and administration of initial emergency techniques are included. Lectures and laboratory.

NOTE: The Corporation des thérapeutes du sport du Québec (CTSQ) accepts successful completion of this course as equivalent to a first aid course which is a partial requirement towards provincial recognition as a Level I Sport First Aider.

CATA 263 Principles of Athletic Therapy (3 credits)

Prerequisite: CATA 262. The course considers topics in athletic therapy from professional, preventive, and pathological perspectives. The course deals with injury classification, clinical flexibility, strength testing, cryotherapy, and sports dermatology. Preventive techniques such as pre-season physical examinations, protective equipment, hazard recognition, and taping techniques are also addressed. Acute and chronic pathologies associated with physical activity, as well as issues including sudden death and communicable diseases in athletics, and the adolescent athlete will be discussed. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 263 or 335 may not take this course for credit.

CATA 337 Assessment of the Upper and Lower Extremities (3 credits)

Prerequisite: CATA 263; CATA 339 concurrently; enrolment in the Athletic Therapy Specialization. This course examines normal function of the upper and lower extremities of the human body. Abnormal function and various pathologies of these structures are addressed in depth. Making use of principles based on applied anatomy and physiology, students learn about clinical assessment procedures and implementation of evaluation methods addressing orthopaedic dysfunction. Types of surgical procedures are discussed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 338 may not take this course for credit.

CATA 339 Rehabilitation of the Upper and Lower Extremities (3 credits)

Prerequisite: CATA 337 concurrently; enrolment in the Athletic Therapy Specialization. This course examines concepts in the rehabilitation process including tissue healing, and introduces students to various exercise protocols and manual techniques specific to the upper and lower extremities. Students learn how to implement safe and effective rehabilitation protocols to address orthopaedic dysfunction of these areas. Patient education to facilitate rehabilitation, documentation treatment plans and treatment outcomes are addressed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 338 may not take this course for credit.

CATA 348 Therapeutic Modalities in Sports Medicine (3 credits)

Prerequisite: CATA 337, 339; enrolment in the Athletic Therapy Specialization. Students are introduced to the parameters of therapeutic modalities and their physiological effects. Various modalities such as heat, cold, ultrasound, muscle stimulation, interferential current and Transcutaneous Electrical Nerve Stimulation (T.E.N.S.) are examined. For each modality, topics include instrumentation, set-up, and practical application. Basic concepts of manual treatment approaches, such as mobilizations, myofascial release, traction, and massage, are introduced. Indications and contraindications and precautions for all treatments are presented. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 348 or 448 may not take this course for credit.

CATA 365 Athletic Therapy Field Internship I (6 credits)

Prerequisite: Enrolment in the Athletic Therapy Specialization and fulfillment of internship eligibility requirements. This course offers students the opportunity to work in an emergency or preventive setting with a sports team, although some clinical component may be introduced. Students must be certification candidates of the Canadian Athletic Therapists Association (CATA) and the Corporation des thérapeutes du sport du Québec (CTSQ). This course involves a commitment of 400 hours over two terms. Weekly seminars with agency supervisors are mandatory.

NOTE: Students who have received credit for CATA 390 may not take this course for credit.

CATA 437 Assessment of the Hip, Spine and Pelvis (3 credits)

Prerequisite: CATA 339; CATA 439 concurrently; enrolment in the Athletic Therapy Specialization. This course examines normal function of the hip, spine, and pelvis of the human body. Abnormal function and various pathologies of these structures are addressed in depth. Making use of principles based on applied anatomy and physiology, students learn about clinical assessment procedures and implementation of evaluation methods addressing orthopaedic dysfunction. Surgical procedures are discussed. Lectures and laboratory.

NOTE: Students who have received credit for CATA 438 may not take this course for credit.

CATA 439 Rehabilitation of the Hip, Spine and Pelvis (3 credits)

Prerequisite: CATA 437 concurrently; enrolment in the Athletic Therapy Specialization. This course examines concepts in rehabilitation, introducing the students to various exercise protocols and manual techniques specific to hip, spine, and pelvis.

Students learn how to implement advanced, safe, and effective rehabilitation protocols to address orthopaedic dysfunction of these areas. Lectures and laboratory.

NOTE: Students who have received credit for CATA 438 may not take this course for credit.

CATA 441 Concepts in Manual Therapy (3 credits)

Prerequisite: Enrolment in the Athletic Therapy Specialization and completion of 75 university credits. This course provides students with an understanding of the fundamental theory and practical basis for using various manual therapy techniques to keep athletes competition-ready, to help in their recovery from injury, and to improve their performance. The course explains various techniques in detail and describes the procedures involved in conducting effective treatment sessions. Muscle Energy, Active Release, Myofascial Release, and Sports Massage are some of the techniques discussed, demonstrated, and practised. Determining goals and organization of a treatment session, and the choice and application of techniques are also discussed. The goal of the course is to help athletic therapists determine the most appropriate manual therapy techniques for a variety of orthopaedic pathologies. Lectures and laboratory.

CATA 447 Special Topics in Athletic Therapy (3 credits)

Prerequisite: CATA 348; enrolment in the Athletic Therapy Specialization. This course focuses on recent research outcomes and new issues in athletic therapy specific to prevention, assessment, and rehabilitation of athletic injuries. The course content varies within the domains of the Canadian Athletic Therapists Association depending upon the most current issues such as surgical techniques, new medications, advanced assessment and modality techniques, and issues related to professional development and the workplace environment. Information is presented from a variety of courses and disciplines to enhance the knowledge base received from core Athletic Therapy courses. Lectures only.

CATA 462 Advanced Emergency Care (3 credits)

Prerequisite: CATA 262; enrolment in the Athletic Therapy Specialization. This course completes the preparation of Athletic Therapy students in the area of emergency care of sports-related injury. It identifies the less common and more complicated emergency situations experienced in the athletic therapy setting. Advanced theoretical and practical components are presented. This course develops the ability of the student to care for the athlete beyond the initial stages of emergency management and towards advanced life support. Lectures and laboratory.

CATA 475 Athletic Therapy Clinical Internship I (6 credits)

Prerequisite: CATA 365; enrolment in the Athletic Therapy Specialization and fulfillment of internship eligibility requirements. Students must be certification candidates of the Canadian Athletic Therapists Association and the Corporation des thérapeutes du sport du Québec. The course offers a minimum 400-hour supervised work opportunity. Under the supervision of a Certified Athletic Therapist, students are shown basic administrative skills as seen in private rehabilitation clinics or within the Department of Exercise Science.

NOTE: Students who have received credit for CATA 480 may not take this course for credit.

CATA 485 Athletic Therapy Field Internship II (3 credits)

Prerequisite: CATA 475; enrolment in the Athletic Therapy Specialization and fulfillment of internship eligibility requirements. This course offers students the opportunity to work in an emergency or preventive setting with a sports team, although some clinical component may be introduced. Students must be certification candidates of the Canadian Athletic Therapists Association (CATA) and the Corporation des thérapeutes du sport du Québec (CTSQ). This course involves a minimum commitment of 200 hours over one or two terms. Weekly seminars with agency supervisors are mandatory.

NOTE: Students who have received credit for CATA 390 may not take this course for credit.

CATA 495 Athletic Therapy Clinical Internship II (3 credits)

Prerequisite: CATA 475; enrolment in the Athletic Therapy Specialization and fulfillment of the internship eligibility requirements. Students must be certification candidates of the CATA and the CTSQ. The course offers a supervised period of work in a rehabilitation or athletic therapy clinic, for a minimum of 200 hours including a weekly seminar.

NOTE: Students who have received credit for CATA 480 may not take this course for credit.

EXCI:

EXCI 202 The Body Human: Form and Function (3 credits)

This course provides insight into the manner in which common injuries and diseases impact on the anatomical structures and functional systems of the body. The various medical treatments and procedures available to maintain or restore the structural and functional integrity of the body are also addressed. Conditions of a cardiovascular, pulmonary, neuromuscular, metabolic and oncologic nature are discussed.

NOTE: Students who have received credit for this topic under an EXCI 298 or EXCZ 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 204 Food for Sport (3 credits)

The course introduces students to a basic understanding of how the digestive system functions, and then examines the role of diet on sport performance. Students learn about the impact of the major food stuffs (carbohydrates, fats, proteins, vitamins, minerals, water) on performance outcomes. The use of ergogenic aids commonly used to enhance sport performance are also discussed with respect to their effectiveness. Caloric balance, diet and body composition are also discussed relevant to specific sport requirements.

NOTE: Students who have received credit for this topic under an EXCI 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 206 *The Science of Sport* (3 credits)

The course introduces basic and practical knowledge of human movement in sports and physical activity. Anatomical and physiological knowledge pertinent to body movement is presented in simple and meaningful terms. Biomechanical concepts and principles applied to body movement in different sports and physical activities are also addressed. Consideration is also given to nutritional aspects and injury prevention in sport and exercise.

NOTE: Students who have received credit for this topic under an EXCI 298 number may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 210 *Introduction to Adapted and Therapeutic Physical Activity* (3 credits)

Prerequisite: Enrolment in an Exercise Science program. This course differentiates between adapted and therapeutic approaches to physical activity with respect to their historical development, inherent principles, types of disabilities and disease conditions, demographics and epidemiological data. Lectures only.

EXCI 218 *Physical Growth and Maturation* (3 credits)

This course considers normal and abnormal growth and maturation patterns of the musculoskeletal, neural, hormonal, cardiovascular, and respiratory systems of the body. In addition, socialization and psychosocial development processes with relevance to an exercise or sports environment are examined. These patterns and processes are investigated from childhood through adolescence and adulthood. Lectures only.

NOTE: Exercise Science students may not take this course for credit.

EXCI 233 *Current Issues in Personal and Community Health* (3 credits)

This course presents an overview of factors influencing personal and community health. Students are exposed to prevalent physical and mental health issues from biological, psychological, and sociological points of view. Health-related consequences of alcohol abuse, drugs, birth control, sedentary lifestyle, eating disorders, and communicable diseases are among the topics considered. Lectures only.

NOTE: Exercise Science students may not take this course for credit.

EXCI 250 *Research Methods* (3 credits)

This course provides students with a general overview of investigative research and the nature of scientific inquiry. Students receive instruction in critical inquiry and appraisal, research design, research ethics, and the role research plays in the development of professional practice/skills. Finally, this course provides the necessary knowledge and practical experience to enable students to plan and run an experimental project, including an understanding of the process of data collection, analysis, interpretation, and presentation. Lectures only.

EXCI 251 *Fundamentals of Health and Physical Activity* (3 credits)

The basic and contemporary issues of health and physical activity are discussed. General topics regarding the benefits of physical activity are examined from anatomical and physiological perspectives. Upon completion, students are able to apply the principles of fitness and wellness to their own lives, to assess their current level of fitness and wellness, to create plans for changing their lifestyle to reach wellness, and to monitor their progress using the health-related components of physical fitness: body composition, cardiovascular endurance, muscular strength and endurance, and flexibility. Lectures only.

NOTE: Students who have received credit for EXCZ 251 may not take this course for credit.

NOTE: Exercise Science students may not take this course for credit.

EXCI 252 *Introduction to Physical Activity, Health and Fitness* (3 credits)

Prerequisite: Enrolment in an Exercise Science program. This course focuses on the fundamentals of fitness assessment and the design of individualized exercise programs compatible with the responsibilities of a health/fitness instructor. Topics of study include screening clients for fitness testing and physical activity participation; the selection of appropriate tests to assess the health-related components of physical fitness such as body composition, cardiovascular endurance, muscular strength, local muscular endurance, and flexibility; interpretation of test results; and the application of exercise principles in the design of safe and effective individualized exercise prescriptions of the apparently healthy client. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 261 and 342 may not take this course for credit.

EXCI 253 *Human Anatomy I: Musculoskeletal Anatomy* (3 credits)

Prerequisite: Enrolment in an Exercise Science program. The major focus of this course covers the anatomy of the musculoskeletal system and accompanying (peripheral) circulatory and neurological systems. It also addresses introductory terminology and tissue differentiation. The structures are examined through approaches of surface anatomy, current and traditional media and/or cadaver examination. Lectures and laboratory.

EXCI 254 *Human Anatomy II: Systemic Anatomy* (3 credits)

Prerequisite: EXCI 253; enrolment in an Exercise Science program. The major focus of this course covers the anatomy of the central circulatory and central respiratory systems. It also addresses the anatomy of the brain and spinal column as well as the integumentary, digestive, and urogenital systems. The structures are examined through approaches of surface anatomy, current and traditional media and cadaver examination. Lectures and laboratory.

EXCI 257 *Human Physiology I: The Neurological, Bio-energetic and Endocrine Systems* (3 credits)

Prerequisite: EXCI 254 previously or concurrently. This course surveys the functional organization and integration of the major systems of the body. A strong focus is placed on the fundamental control and operation of the nervous system, the mechanics and

energetics of skeletal muscle function, and the actions of hormones comprising the endocrine and reproductive systems. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 353 may not take this course for credit.

EXCI 298 Selected Topics in Exercise Science (3 credits)

EXCI 299 Selected Topics in Exercise Science (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EXCI 322 Statistics for Exercise Science (3 credits)

Prerequisite: EXCI 250; enrolment in the honours program; or permission of the Department. This course builds on students' experience derived from EXCI 250 to advance their knowledge of the research process by providing details of statistical techniques and methods that are common in exercise science. Lectures only.

EXCI 323 Research Experience in Exercise Science (3 credits)

Prerequisite: EXCI 250; enrolment in the honours program. This course provides students with hands-on research experience. They learn a new technique, engage in data collection, and produce a literature review in an area related to the research of the supervising professor. Laboratory only.

EXCI 351 Introduction to the Biomechanics of Human Movement (3 credits)

Prerequisite: EXCI 253; PHYS 204, 224 or equivalent. The primary focus of this course concentrates on the mechanical principles of human movement. Fundamental principles of kinematics and kinetics are examined in a theoretical and practical context. Lectures and laboratory.

EXCI 352 Essentials of Exercise Testing and Training in Athletic Populations (3 credits)

Prerequisite: EXCI 252. This course utilizes the students' background knowledge of anatomy, physiology, biomechanics, exercise physiology, and exercise programming to design pre-season, in-season, and post-season conditioning programs for elite athletes in a variety of sports. Most importantly, this course focuses on the importance of applying scientific principles of training in the design of exercise programs for elite athletes. The importance of skill-related (i.e. speed, agility, and power) and health-related components (i.e. cardio-respiratory endurance, and muscle strength) of physical fitness relative to performance is emphasized in this course. Some of the topics covered include ergogenic aids, regulation of skeletal muscle mass, periodization, aerobic endurance and resistance exercise training, and plyometrics. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 452 may not take this course for credit.

EXCI 355 Neural Control of Human Movement (3 credits)

Prerequisite: EXCI 254, 257. Following a brief review of the nervous system anatomy and the functional properties of the neuron, students are introduced to the basic principles of the neural control of human movement, including reference to the sensory systems (visual, auditory, vestibular, proprioceptive and kinesthetic). Select pathologies and disorders of the nervous system and their resulting neuromuscular deficits are presented, as well as neuro-rehabilitative techniques and strategies. Lectures only.

EXCI 357 Human Physiology II: The Cardiovascular and Respiratory Systems (3 credits)

Prerequisite: EXCI 257. This course deals with the structural, the fundamental mechanisms and the functional control of the cardiovascular and respiratory systems. A detailed analysis of the rhythmical control of the heart, cardiovascular hemodynamics, capillary and coronary circulations, control of arterial blood pressure, the regulation of heart rate, cardiac output, and the peripheral vasculature is discussed. With respect to respiratory physiology, selected topics including pulmonary mechanics, principles of gas exchange and diffusion, transport of oxygen and carbon dioxide in the blood, and the regulation of respiration are addressed. Lectures and laboratory.

EXCI 358 Physiology of Exercise (3 credits)

Prerequisite: EXCI 357. This course deals with the physiological adjustments and adaptations to physical activity. Special emphasis is placed on examining the functional capacity of the cardiovascular, respiratory, neuromuscular, and endocrine systems to acute exercise and the process of adaptation to exercise training. Lectures and laboratory.

NOTE: Students who have received credit for EXCI 456 may not take this course for credit.

EXCI 380 Adapted Physical Activity (3 credits)

Prerequisite: EXCI 210; enrolment in the Clinical Exercise Physiology Specialization. This course examines the pathology associated with selected physical impairments and disabilities including sensorial, neurological, and orthopaedic conditions. Appropriate adapted physical activities are presented together with contraindications to physical activity and the role of environmental factors. Students experience clinical environments through field-trip activities. Lectures only.

EXCI 383 Clinical Exercise Physiology Internship I (3 credits)

Prerequisite: Enrolment in the Clinical Exercise Physiology Specialization and fulfillment of internship eligibility requirements. This course offers students the opportunity to observe and participate in physical activity programming offered for special populations (i.e. persons with neurological and physical impairments) in a supervised setting. This course involves a commitment of 120 hours including a weekly seminar.

EXCI 398 Selected Topics in Exercise Science (3 credits)

EXCI 399 Selected Topics in Exercise Science (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

EXCI 420 Physical Activity Epidemiology (3 credits)

Prerequisite: EXCI 358. This course surveys the health-related aspects of exercise, physical activity, and physical fitness from the perspective of epidemiology. Topics include an introduction to the epidemiological process, the relationship between physical activity and disease (e.g. cardiovascular disease, obesity, cancer, mental illness), the biological mechanisms for healthy adaptations to physical activity, the behavioural determinants of physical activity, and public policy implications of the current literature.

NOTE: Students who have received credit for this topic under an EXCI 498 number may not take this course for credit.

EXCI 422 Pathophysiology in Clinical Exercise Science I (3 credits)

Prerequisite: EXCI 252, 358 or equivalent; enrolment in the Clinical Exercise Physiology Specialization. This course reviews pathophysiology, medical intervention techniques, and medication profiles of the most common cardiovascular, respiratory, oncologic and metabolic diseases. Lectures only.

EXCI 423 Pathophysiology in Clinical Exercise Science II (3 credits)

Prerequisite: EXCI 252, 358 or equivalent; enrolment in the Clinical Exercise Physiology Specialization. This course reviews pathophysiology, medical intervention techniques, and medication profiles of the most common neuromuscular and orthopaedic diseases and disabilities. Lectures only.

EXCI 424 Honours Seminar I: Issues and Methods in Exercise Science (3 credits)

Prerequisite: EXCI 322, 323; enrolment in the honours program. Using a combination of guest speakers and student presentations, this seminar is geared to critically examining current issues and methods in exercise science. Its emphasis is on practical and methodological issues as they relate to selected topics from these areas. Examples of topics include ethical issues and new emerging theories in exercise science, and utility of a particular research technique or methodology. Lectures only.

EXCI 425 Honours Seminar II: Current Topics in Exercise Science (3 credits)

Prerequisite: EXCI 322, 323; enrolment in the honours program. Using a combination of guest speakers and student presentations, this seminar is geared to critically examining current topics in exercise science. Its emphasis is on the theoretical basis of issues as they relate to selected topics in the student's specific areas of research. Lectures only.

EXCI 426 Honours Thesis (6 credits)

Prerequisite: EXCI 322, 323; EXCI 424, 425 previously or concurrently; enrolment in the honours program. This course requires the student to propose and conduct a study and submit a thesis according to a recognized and approved scientific journal format. The work is supervised by a thesis chair selected by the student from within the Department.

EXCI 440 Current Developments in the Biochemistry of Exercise (3 credits)

Prerequisite: EXCI 358 or permission of the Department. This course offers an in-depth examination of the current topics and literature in biochemistry, cellular and molecular biology, and physiology as they relate to the adaptations associated with physical activity, exercise training, or disease. The course is designed to integrate knowledge from the disciplines of Exercise Science, Biochemistry, and Biology, to facilitate the synthesis and evaluation of new ideas, and to promote the effective oral and written communication of these ideas.

NOTE: Students who have received credit for this topic under an EXCI 498 number may not take this course for credit.

EXCI 445 Nutrition in Exercise and Sport (3 credits)

Prerequisite: EXCI 358. This course provides an overview of the anatomy and in-depth study of the physiology of the digestive system prior to examining the significance of carbohydrates, lipids, and proteins as essential nutritional requirements for physical activity and optimal performance. The importance of trace minerals and vitamins is also discussed. Specific issues such as the use of nutritional beverages, ergogenic aids, eating disorders, and nutritional concerns of athletes are some of the topics presented. Lectures only.

EXCI 450 Physical Fitness Assessment, Exercise Prescription and Rehabilitation in Special Populations (3 credits)

Prerequisite: EXCI 252, 358, 422, 423 previously or concurrently. This course focuses on the assessment of the health-related components of physical fitness in individuals with chronic degenerative diseases. These health-related components include cardiorespiratory endurance, muscular fitness, flexibility, and body composition. Furthermore, students learn how to design safe and effective exercise programs through proper exercise prescription for these same individuals. Cancer, musculoskeletal disorders, and cardiovascular, pulmonary, and metabolic diseases are samples of the degenerative diseases that are examined in this course. Lectures and laboratory.

EXCI 451 Clinical Biomechanics (3 credits)

Prerequisite: EXCI 351, 355 previously or concurrently. This course addresses biomechanical aspects of the most common structural and neurological abnormalities of the spine resulting in pathological gait. It also addresses the mechanics of tissue and joint injury of the head, neck, torso, and extremities. Lectures only.

EXCI 453 *Stress, Health and Disease* (3 credits)

Prerequisite: EXCI 355, 357 or permission of the Department. This course is an introduction to the role stress plays in health and disease. Topics dealt with in this seminar-based course include defining and measuring stress, the relationship between stress and disease (e.g. cardiovascular disease, asthma, cancer, infectious illness), the pathophysiology of stress, and current issues and controversies in behavioural medicine.

NOTE: Students who have received credit for EXCI 320 or for this topic under an EXCI 398 number may not take this course for credit.

EXCI 455 *Physical Activity, Health and Aging* (3 credits)

Prerequisite: EXCI 358. This course addresses the health status, physical fitness, exercise patterns, and effectiveness of exercise prescription for the well elderly and those exhibiting symptoms of chronic diseases which commonly accompany the aging process. Lectures and laboratory.

EXCI 458 *Pediatric Exercise Science* (3 credits)

Prerequisite: EXCI 351, 358. This course introduces students to the anatomical, physiological, and psychosocial issues related to exercise and physical activity in children. Topics include influence on growth and health, injury potential, endurance exercise, weight training, youth in sport, competitive and collaborative play, stress in childhood, and the strategies for improving exercise habits of children. Lectures only.

EXCI 461 *Pharmacology for Sport and Exercise* (3 credits)

Prerequisite: EXCI 358. This course provides the latest information on over-the-counter and prescription medications commonly used in sport. It offers a sound review of pharmacology and pharmokinetic principles and explores the latest practice implications for certified athletic therapists and exercise specialists. The course includes indications, contraindications, and side effects of common therapeutic medications used in sport. Class discussions also cover natural products and the effects of their interactions with prescription and non-prescription pharmaceuticals. Lectures only.

EXCI 471 *Pain Management Strategies* (3 credits)

Prerequisite: EXCI 358. This course relates theory and research to the practical experiences of client/athletic-practitioner interactions, relationships, and interventions. It addresses pain management principles as they relate to illness, injury, and rehabilitation. Lectures only.

EXCI 483 *Clinical Exercise Physiology Internship II* (3 credits)

Prerequisite: Enrolment in the Clinical Exercise Physiology Specialization and fulfillment of internship eligibility requirements. The course offers a supervised period of work as activity leader/exercise specialist in a hospital or rehabilitation centre assisting in performing physiological evaluations, designing exercise programs, and animating physical activities. The course involves a commitment of 120 hours including a weekly seminar.

EXCI 492 *Independent Study in Exercise Science* (3 credits)

Prerequisite: Completion of 60 credits in the Exercise Science Major or Specialization programs and written permission of the Department Chair. This course provides an opportunity to conduct a small-scale scientific research project under the supervision of a faculty member from the Department. In consultation with a faculty member, the student selects a topic, formulates a research methodology, collects data, analyzes the results, and writes a formal research report.

NOTE: Students who have received credit for EXCI 491 may not take this course for credit.

EXCI 498 *Advanced Topics in Exercise Science* (3 credits)**EXCI 499 *Advanced Topics in Exercise Science*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Faculty

Chair

DAVID F. GREENE, PhD Calg., Professor

Distinguished Professor Emeritus

BRIAN SLACK, PhD McG.

Professor

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LAURA SHILLINGTON, PhD York (Can.)

UDAYA VEPAKOMMA, PhD U.Q.A.M.

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Hall Building, Room: H 1255-26

514-848-2424, ext. 2050

Department Objectives

The Department of Geography, Planning and Environment focuses on the processes and practices of human intervention in the natural, cultural, and built environment. Human interventions are examined as cultural and political processes across the spectrum of biophysical settings and human settlements. The Department's aim is to provide a systematic understanding of biogeophysical environmental processes and human-environment interactions as a step towards improving policies, practices, and specific interventions. The curriculum reflects a balance among theoretical, technical, and applied aspects, and promotes environmental and spatial awareness and literacy. The Department aims to train professional geographers, environmental scientists, and urban planners, as well as to produce articulate and informed graduates who are committed to improving the quality and sustainability of the natural, human, and built environment.

Programs

The Department offers honours, specialization, and major programs leading to a BA in Human Environment, a BA in Urban Planning or Urban Studies, and a BSc in Environmental Science or Environmental Geography. Students wishing to follow a BSc must meet the entry profile for that program (see §31.002 — Programs and Admission Requirements — Profiles).

It is strongly recommended that students planning graduate studies follow the appropriate honours or specialization program. Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor during stage two of their program. In addition to meeting the Faculty requirements (see §31.003 Honours Regulations), the Department requires a statement of intent which specifies the proposed topic and supervisor for the Honours Essay (GEOG 491 or URBS 491).

All students in department programs must be advised annually to receive permission to register for courses or to replace, substitute, or be exempted from any course within their program. Urban Studies students should consult the director of Urban Studies; all other program students should consult the Geography undergraduate advisor.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in the Human Environment

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
- 3 Chosen from GEOG 210³; GEOL 210³; URBS 230³

Stage II

- 12 GEOG 300³, 361³, 362³, 363³
- 6 Chosen from GEOG 317³, 318³, 330³, 355³
- 6 Chosen from GEOG 371³, 372³ or 373³, 375³, 377³, 378³

Stage III

- 12 Elective credits in Geography at the 400 level
- 6 GEOG 491⁶

60 BA Specialization in the Human Environment

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
- 3 Chosen from GEOG 210³; GEOL 210³; URBS 230³

Stage II

- 12 GEOG 300³, 361³, 362³, 363³
- 6 Chosen from GEOG 317³, 318³, 330³, 355³
- 6 Chosen from GEOG 371³, 372³ or 373³, 375³, 377³, 378³

Stage III

- 12 Elective credits in Geography at the 400 level
- 6 Elective credits in Geography at the 300 or 400 level

42 BA Major in the Human Environment

Stage I

- 15 GEOG 220³, 260³, 272³, 274³, 290³
- 3 Chosen from GEOG 210³; GEOL 210³; URBS 230³

Stage II

- 12 GEOG 300³, 361³, 362³, 363³
- 3 Chosen from GEOG 317³, 318³, 330³, 355³
- 3 Chosen from GEOG 371³, 372³ or 373³, 375³, 377³, 378³

Stage III

- 6 Elective credits in Geography at the 400 level

69 BSc Honours in Environmental Science

Stage I

- 9 BIOL 225³, 226³; GEOG 290³
- 3 COMP 218³ or 248³
- 6 Chosen from GEOG 272³, 274³; GEOL 210³
- 3 GEOG 260³ or GEOL 216³
- 3 CHEM 212³ or 217³

Stage II

- 6 BIOL 322³; GEOG 363³
- 3 Chosen from BIOL 321³; GEOG 355³; GEOL 302³
- 9 Chosen from GEOG 371³, 372³ or 373³, 375³, 377³, 378³
- 6 Chosen from BIOL 350³, 351³, 353³, 367³, 381³, 385³; CHEM 271³; CIVI 361^{3.5*}; GEOL 331³; ENGR 251³

Stage III

- 3 GEOG 463³ or 465³
- 12 Chosen from BIOL 451³, 457³, 459³; CHEM 375³, 470³, 472³; GEOG 458³, 466³, 467³, 470³, 474³, 475³, 478³, 498^{3**}; GEOL 415³, 440³; CIVI 467³, 468³, 469^{3.5}, 495^{**}
- 6 Chosen from BIOL 490⁶; GEOG 491⁶; GEOL 414⁶

*Environmental Science students missing the prerequisites may apply to have all or some of these waived by the Department of Building, Civil and Environmental Engineering.

**Where the subject matter is of an environmental science nature.

69 BSc Specialization in Environmental Science*Stage I*

- 9 BIOL 225³, 226³; GEOG 290³
- 3 COMP 218³ or 248³
- 6 Chosen from GEOG 272³, 274³; GEOL 210³
- 3 GEOG 260³ or GEOL 216³
- 3 CHEM 212³ or 217³

Stage II

- 6 BIOL 322³; GEOG 363³
 - 3 Chosen from BIOL 321³; GEOG 355³; GEOL 302³
 - 9 Chosen from GEOG 371³, 372³ or 373³, 375³, 377³, 378³
 - 6 Chosen from BIOL 350³, 351³, 353³, 367³, 381³, 385³; CHEM 271³; CIVI 361^{3,5*}; GEOL 331³; ENGR 251³
- Stage III*
- 3 GEOG 463³ or 465³
 - 18 Chosen from BIOL 451³, 457³, 459³; CHEM 375³, 470³, 472³; GEOG 458³, 466³, 467³, 470³, 474³, 475³, 478³, 498^{3**}; GEOL 415³, 440³; CIVI 467³, 468³, 469^{3,5}, 495^{3**}

*Environmental Science students missing the prerequisites may apply to have all or some of these waived by the Department of Building, Civil and Environmental Engineering.

**Where the subject matter is of an environmental science nature.

45 BSc Major in Environmental Geography*Stage I*

- 15 GEOG 220³, 260³, 272³, 274³, 290³
- 3 GEOL 210³
- 3 Chosen from BIOL 225³, 226³, 227³

Stages II & III

- 12 GEOG 300³, 361³, 362³, 363³
- 12 300- or 400-level credits chosen from the BSc Geography/Geology course list or in consultation with the appropriate departmental advisor. At least three credits must be at the 400 level.

30 Minor in the Human Environment

- 15 GEOG 220³, 260³, 272³, 274³, 290³
- 3 GEOG 300³
- 12 GEOG elective credits at the 300 or 400 level

NOTE: This minor is intended for Arts students.

24 Minor in Environmental Geography

- 6 GEOG 272³, 274³
- 3 GEOL 210³
- 9 Chosen from GEOG 300³, 363³, 371³, 372³ or 373³, 375³, 377³, 378³; GEOL 302³, 331³
- 6 Chosen from GEOG 406³, 458³, 463³, 466³, 467³, 470³, 472³, 474³, 475³, 478³; GEOL 415³, 440³

NOTE: This minor is intended for Science students.

Students in programs leading to the BSc degree may take the courses in Geography/Geology listed below for credits to be applied to their program of concentration.

GEOG 260	Mapping and the Environment (3 credits)
GEOG 272	The Natural Environment: Air and Water (3 credits)
GEOG 274	The Natural Environment: Land and Life (3 credits)
GEOG 361	Research Design and Qualitative Methods (3 credits)
GEOG 362	Statistical Methods (3 credits)
GEOG 363	Geographic Information Systems (3 credits)
GEOG 371	Landscape Ecology (3 credits)
GEOG 372	Plant Reproductive Ecology (3 credits)
GEOG 373	Plant Community Ecology (3 credits)
GEOG 375	Hydrology (3 credits)
GEOG 377	Landform Evolution (3 credits)
GEOG 378	The Climate System (3 credits)
GEOG 458	Environmental Impact Assessment (3 credits)
GEOG 463	Advanced Geographic Information Systems (3 credits)
GEOG 465	Remote Sensing (3 credits)
GEOG 466	Geomedia and the Geoweb (3 credits)
GEOG 470	Environmental Management (3 credits)
GEOG 472	Environmental Change during the Quaternary (3 credits)
GEOG 473	Environment and Health (3 credits)
GEOG 474	Sustainable Forest Management (3 credits)

GEOG 475	Water Resource Management (3 credits)
GEOG 478	Climate Change: Science, Impacts and Policy (3 credits)
GEOL 210	Introduction to the Earth (3 credits)
GEOL 216	Field Methods (3 credits)
GEOL 302	Palaeobiology (3 credits)
GEOL 331	Evolution of the Earth (3 credits)
GEOL 415	Plate Tectonics and Crustal Evolution (3 credits)
GEOL 440	Seminar in Current Research on Environmental Earth Science (3 credits)

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Geography

GEOG 200 *World Geography* (3 credits)

This course provides an overview of world geography. It first examines the main environmental and social factors that geographers have employed to divide the world into a series of distinctive regions, and uses examples of specific countries to explore the distinctive geographical processes by which these patterns are transformed and perpetuated.

NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 203 *Canadian Environmental Issues* (3 credits)

This course examines the diversity and complexity of Canadian environmental issues from an interdisciplinary perspective. Natural science considerations are explored as well as the relationship of scientific understanding to policy and wider social action. Issues addressed include fisheries, animal rights, biodiversity conservation, protected areas, energy, and climate change.

NOTE: Students registered in a Human Environment, Environmental Geography, or Environmental Science program may not take this course for credit.

GEOG 204 *Global Environmental Issues* (3 credits)

This course examines a number of global environmental issues from an interdisciplinary perspective. The complex interactions and interdependencies among the biophysical, socio-economic, political, and cultural aspects of global environmental change are explored in relation to issues such as global warming, desertification, deforestation, declining biodiversity, and acid rain.

NOTE: Students registered in a Human Environment, Environmental Geography, or Environmental Science program may not take this course for credit.

GEOG 206 *Maps and Mapping* (3 credits)

This course explores the role of maps in society. Students are introduced to basic mapping concepts in order to evaluate the meaning and use of various types of maps. Samples of the following types of maps are studied: historic maps, political maps, cognitive maps, maps in newspapers and magazines, computer-generated maps, and maps on television.

NOTE: Students who have completed courses numbered GEOG 209 and above may not take GEOG 200-208 for credit.

GEOG 209 *The Geography of a Selected Region* (3 credits)

The course includes both a systematic survey as well as an in-depth focus on particular geographical issues and problems. The specific region to be studied may vary from year to year.

GEOG 210 *Geography of Global Change* (3 credits)

This course examines a variety of geographical changes related to globalization. It focuses mainly on the global political system and the global economy, and also considers transport and communications systems, culture, and environmental issues.

NOTE: Students who have received credit for GEOZ 210 may not take this course for credit.

GEOG 220 *The Human Environment: Place, Space, and Identity* (3 credits)

This course examines how geographers construct the meaning of place, the unique identity of places, the contests over identity of place, and how space is socially constructed. The ways in which these have been affected by migration and globalization are then examined within the context of an already constituted social and geographical unevenness (political, economic, environmental, and cultural).

NOTE: Students who have received credit for GEOZ 220 may not take this course for credit.

GEOG 260 *Mapping the Environment* (3 credits)

This course introduces students to the basic concepts, theory, and methods of mapping with reference to topographic and thematic maps. Through lectures, laboratories, and practical assignments, students learn about the sources of data for maps, and how these data are manipulated, represented, and interpreted in both analog and digital form (Geographic Information Systems). Lectures and laboratory.

GEOG 272 *The Natural Environment: Air and Water* (3 credits)

This course introduces the Earth's atmosphere and hydrosphere through an examination of their structural components, processes, and variability through space and time. Topics include the global energy system, air temperature cycles, weather systems, urban climate, the water cycle, oceans, lakes, and rivers.

GEOG 274 *The Natural Environment: Land and Life* (3 credits)

This course introduces the Earth's lithosphere and biosphere through an examination of their structural components, processes, and variability through space and time. Topics include the tectonic system, volcanic activity, landscape and landform development, soils, biogeochemical cycling, succession, and biomes.

GEOG 290 *Environment and Society* (3 credits)

Prerequisite: GEOG 220, 272; 274 concurrently.* This course integrates human and physical geography into a holistic view of human-environment relations. It focuses on a few key environmental issues through case studies operating at a variety of scales (global, national, regional, local), and in different places and time periods. It examines how humans interact with the environment; how they, as members of societies and bearers of culture, perceive, use, transform, and manage the physical environment in different ways and are in turn impacted by changes to that environment. Each case study highlights a specific method and tool of geographic analysis and introduces students to the value of different approaches to environmental issues.

*NOTE: Students enrolled in either the BSc Honours or Specialization in Environmental Science are not required to have the GEOG 220 prerequisite, and may substitute GEOL 210 for either GEOG 272 or 274.

GEOG 298 *Selected Topics in Geography* (3 credits)**GEOG 299 *Selected Topics in Geography*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Geography Course Guide.

GEOG 300 *Environment: Historical and Cultural Perspectives* (3 credits)

Prerequisite: GEOG 290 or permission of the Department. This course explores selected aspects of nature and culture in Western thought. It focuses on four overlapping themes: 1) it presents a broad historical overview of the questions that humans have posed concerning the habitable Earth and their relationships to it; 2) it looks in more detail at one of those questions, namely, the extent to which human agency has transformed the Earth; 3) it explores the relations between attitudes, values and behaviour, focusing mainly on the idea of wilderness; and 4) it traces the roots and describes the main characteristics of contemporary environmentalism.

GEOG 301 *The Sustainable University Campus* (3 credits)

Prerequisite: 30 university credits or permission of the Department. With the campus as the laboratory, this course explores and contributes to building a more sustainable campus community. It is designed to support Concordia's commitment to sustainability while providing students with an applied learning experience. Students gain experience in planning and implementing interdisciplinary research projects using a variety of qualitative and quantitative techniques. They learn about participatory action research, the application of sustainability concepts in a living and learning organization, and work in teams to develop creative and actionable projects that contribute to moving the University in a more sustainable direction. The course integrates theory and practice. The Concordia Campus Sustainability Assessment as well as recent literature and case studies from the sustainability assessment and reporting fields form the theoretical foundations of the course. The course uses lectures, guest speakers, workshops, and project work as learning tools.

NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.

GEOG 317 *Population Geography* (3 credits)

Prerequisite: GEOG 220 or permission of the Department. This course focuses on demographic processes and their relevance to current planning and policy issues. The lectures examine evolving patterns of fertility, mortality, and migration, the spatial and temporal processes that fashion them, and their interaction as expressed in population growth, age structure, and policy issues such as aging, low fertility in post-industrial societies, high fertility and poor health in some less developed countries. In response to now widely available electronic demographic data, the laboratory develops students' skills in the methods of demographic analysis and interpretation through the use of desktop spreadsheet programs (Excel). Lectures and laboratory.

GEOG 318 *Vanishing Borders: Regions and the New International Order* (3 credits)

Prerequisite: GEOG 220, or completion of 30 credits for students enrolled in a Social Science program, or permission of the Department. This course examines the argument that as globalization reduces and removes the effects of international boundaries, regions are becoming more important in the global economy and in the global political system. Emerging new forms of regionalism are discussed, such as transborder regions, regions based on transnational economic integration, and hi-tech regions. The changing nature of more traditional regions, such as metropolitan regions and regions based on sub-state nationalism is also considered.

GEOG 321 *A World of Food* (3 credits)

Prerequisite: 24 university credits. This course examines the geographical processes that have affected the production and consumption of food from the beginnings of agriculture to the rise of genetically modified organisms, and considers the part played by different patterns of diet and cuisine in shaping distinctive regions at the global and local scale.

NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.

GEOG 330 *Urban Geography* (3 credits)

Prerequisite: GEOG 220 or permission of the Department. The geographer's view of the city is explored at two scales: cities as elements of an urban system, including topics such as urbanization and the functional structure of cities; and intra-urban patterns, including the spatial arrangement of land-use and social areas.

GEOG 333 *Urban Transportation* (3 credits)

Prerequisite: GEOG 220 or URBS 230 or permission of the Department. This course examines the past evolution and recent functioning of various transport modes in cities around the world. Recent debates about desirable levels of car, transit, and non-motorized modes feature prominently. Techniques of analyzing urban transport and public policy options are considered in light of burgeoning concerns about sustainable development and the worldwide growth of motorization.

NOTE: Students who have received credit for URBS 310 may not take this course for credit.

GEOG 342 *The Making of the Irish Landscape* (3 credits)

Prerequisite: Second-year standing or permission of the Department. This course focuses on the evolution of the Irish landscape and examines the physical, political, social, economic and attitudinal processes that have shaped the cultural landscape from prehistoric times to the present.

NOTE: Students who have received credit for this topic under a GEOG 398 number may not take this course for credit.

GEOG 355 *Resource Analysis and Management* (3 credits)

Prerequisite: GEOG 290 or permission of the Department. The course is concerned with the use of the Earth's natural resources and with the economic, institutional, and ecological factors that affect, condition, and control the use of these resources. It examines various approaches to analyzing, evaluating, and resolving resource issues and conflicts. These approaches are applied to Canadian forestry, fisheries, water, energy, and mineral resources.

GEOG 361 *Research Design and Qualitative Methods* (3 credits)

Prerequisite: GEOG 260 or permission of the Department. This course introduces students to commonly employed methods and techniques for undertaking social science research. After reviewing the philosophical considerations underlying particular research traditions and the merits and limitations of distinct types of research strategies, the course examines specific sets of methods and the kinds of questions and research topics for which they are best suited. The focus is on qualitative methods but also examines the complementarity of qualitative and quantitative techniques and the broader research designs in which quantitative techniques can be employed. Readings are supplemented with in-class and field exercises. Occasional involvement in fieldwork outside of class time is required.

NOTE: Students who have received credit for GEOG 360 may not take this course for credit.

GEOG 362 *Statistical Methods* (3 credits)

Prerequisite: GEOG 361 or permission of the Department. This course introduces statistical methods for geographers. Topics include sampling, data manipulation, probability distributions, statistical inference, hypothesis testing, correlation and regression. Lectures and laboratory.

NOTE: Students who have received credit for GEOG 360 may not take this course for credit.

GEOG 363 *Geographic Information Systems* (3 credits)

Prerequisite: GEOG 260 or permission of the Department. This course is an introduction to current theoretical and practical approaches to Geographic Information Systems (GIS) through which students acquire basic skills and understanding in the use of GIS for spatial analysis. Training is centred on a series of practical assignments using ArcGIS software and for the term project, students explore the potential of GIS for addressing a real-world problem. Lectures and laboratory.

NOTE: Students who have received credit for URBS 335, 387, or 487 may not take this course for credit.

GEOG 371 *Landscape Ecology* (3 credits)

Prerequisite: GEOG 272, 274. The objective of this course is to combine perspectives and principles originating in ecology and geography for application in conservation, restoration, and more sustainable land use. Students examine how natural processes and human activities interact and contribute to landscape change, and how landscape patterns influence the abundance and distribution of plants and animals. Topics include natural processes such as fire, water, and the movement of organisms; human activities such as transportation infrastructure and urban development; and methods for analyzing landscape structure such as patches, corridor networks, and landscape metrics. Lectures and laboratory.

GEOG 372 *Plant Reproductive Ecology* (3 credits)

Prerequisite: GEOG 272, 274; or permission of the Department. This course looks at pollination, seed abscission and dispersal, granivory, germination and seedbeds. The applied issues addressed here include allergies, the impoverishment of pollinator diversity, the problem of contamination by GM crops, and the capacity of plant species to migrate at the pace required by fast climate change. There is a mandatory one-day field trip as well as a lab component.

NOTE: Students who have received credit for GEOG 373 or 374 may not take this course for credit.

GEOG 373 *Plant Community Ecology* (3 credits)

Prerequisite: GEOG 272, 274; or permission of the Department. This course examines plant community dynamics as a consequence of the population dynamics of the constituent plant species. The role of natural disturbances (such as hurricanes, ice storms, and fire) in community dynamics is stressed, particularly as they affect forests. Applied issues such as vegetation mapping, prescribed burning in national parks, and species' responses to climate change are explored in depth. There is a mandatory one-day field trip as well as a lab component.

NOTE: Students who have received credit for GEOG 372 or 374 may not take this course for credit.

GEOG 375 *Hydrology* (3 credits)

Prerequisite: GEOG 272, 274; or permission of the Department. The course examines the hydrologic cycle, with a main focus on surface hydrology. Topics covered include the organization of the river network, precipitation over a watershed, runoff, flood frequency analysis, estimation of peak streamflows, flow, and sediment transport in rivers. Assignments provide experience in the practical aspects of hydrological data treatment using Canadian examples. The course aims at understanding the mechanics of processes governing the motion of water on hillslopes and in rivers, which are essential to water management. Lectures and tutorial.

GEOG 377 *Landform Evolution* (3 credits)

Prerequisite: GEOG 272; GEOG 274 or GEOL 210; or permission of the Department. This course examines the processes responsible for the development and evolution of the Earth's landforms, including human modifications to those landforms. Topics include the study of fluvial, coastal, glacial, periglacial, and arid landforms. Lectures and laboratory.

NOTE: Students are strongly encouraged to take GEOL 210.

GEOG 378 *The Climate System* (3 credits)

Prerequisite: GEOG 272; GEOG 274 or GEOL 210; or permission of the Department. This course examines the interacting components of the climate system (atmosphere, ocean, ice, land and vegetation) and the key features of the present-day weather and climate systems; including a focus on how the climate system has changed in the past, and the processes, both natural and human-induced, which drive and moderate these changes. Methods used to reconstruct past climate changes, and the use of climate models to understand climate system interactions and change are discussed.

GEOG 398 *Selected Topics in Geography* (3 credits)**GEOG 399 *Selected Topics in Geography*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOG 400 *Political Ecology* (3 credits)

Prerequisite: GEOG 300 or permission of the Department. This course explores the politics of the environment from the perspective of critical human geography. Land degradation and transformation, environmental governance, social movements, and environmental conflicts are some of the topics that are covered. The course examines how political struggles not only rearrange the environment, but also forge new environmental meanings, identities, and spaces.

GEOG 406 *Tropical Forests* (3 credits)

Prerequisite: GEOG 372 or 373 or 374; or permission of the Department. This course focuses on three themes: how tropical forest ecosystems function and change; the causes and consequences of deforestation and faunal impoverishment; and the ecological and sociological problems faced by conservationists in the tropics.

GEOG 407 *Indigenous Resource Management* (3 credits)

Prerequisite: GEOG 300 or permission of the Department. This course explores the relationship between indigenous peoples and the environment. It focuses on two primary themes: first, it looks at ways in which ecological knowledge shapes indigenous resource management, land tenure, and sea-rights systems; and second, it examines the roles of indigenous peoples and state authorities in land, sea, and resource management.

NOTE: Students who have received credit for GEOG 304 or for this topic under a GEOG 498 number may not take this course for credit.

GEOG 417 *Population and the Environment* (3 credits)

Prerequisite: GEOG 317 or permission of the Department. This course examines the scientific basis for concern that the world is, or soon will be, overpopulated. Two themes are emphasized: (1) environmental stress is the product of lifestyles and the production systems that support lifestyles, as well as population numbers and growth; (2) the relationship between population and environment is mediated by social organization; people are both constrained by social structures, and intelligent human agents of demographic and environmental change. The course examines these issues from theoretical, historical, empirical, and policy perspectives.

GEOG 418 *Geographies of Postcolonialism* (3 credits)

Prerequisite: GEOG 300 or permission of the Department. Based largely on scholarship about the Americas, this course introduces students to theories of the colonial present and trace geographies of a variety of contemporary colonial processes and anti-colonial struggles.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 430 *The Social and Cultural Geographies of Montreal* (3 credits)

Prerequisite: GEOG 361 or URBS 360. This course explores the social and cultural geographies of Montreal with particular emphasis on how the spatial distribution of communities influences urban planning and public policy at the local and regional levels. Complex webs of identities and solidarities informed by socio-economic, linguistic, ethno-cultural, and sexual orientation factors shape the city living experience of individuals and populations alike. Through lectures, discussions, assignments and field trips, students are introduced to a variety of analytical perspectives that investigate the socio-cultural dynamics that contribute to shaping urban settlements, human-environment interactions and local social networks.

NOTE: Students who have received credit for URBS 320 or 420 may not take this course for credit.

GEOG 431 *Urban Planning in the Developing World* (3 credits)

Prerequisite: GEOG 330 or permission of the Department. This course explores the growth and planning of large metropolitan areas in developing nations, with a focus on East and South East Asia. Issues and problems associated with recent urbanization are examined along with potential solutions offered by urban planning and public policies. The planning roles of institutions including governments, multilateral development agencies, and non-governmental organizations are reviewed.

NOTE: Students who have received credit for GEOG 430 or URBS 481, or for this topic under a URBS 398, URBS 498, or GEOG 498 number, may not take this course for credit.

GEOG 435 *Transportation Impact Assessment* (3 credits)

Prerequisite: URBS 310 or GEOG 333; URBS 335 or GEOG 363; or permission of the Department. This course introduces students to the quantitative analysis of the environmental (e.g. emissions) and social impacts (e.g. accessibility) of transportation system interventions. Students are introduced to, and gain hands-on experience with, the traditional transportation planning and modelling process aided by the use of a Geographic Information System (GIS)-based transportation decision aid tool. A real-world case-study region and transportation system are used to illustrate the different elements of the planning and modelling process and how this can be used in impact assessment. Lectures and laboratory.

NOTE: Students who have received credit for URBS 435 or for this topic under a GEOG 498 or URBS 498 number may not take this course for credit.

GEOG 440 *Geography and Public Policy* (3 credits)

Prerequisite: 33 credits in Geography or permission of the Department. This course examines the relationship between geographical approaches to problems and issues, and the public policy process. It discusses such topics as the relevance of geographical information and geographical research to policy makers, the need for assessment of the spatial and environmental impact of public policies, and the role of geographers in the public policy process.

GEOG 450 *Industrial Restructuring* (3 credits)

Prerequisite: GEOG 318 or URBS 380 or permission of the Department. In the age of globalization and heightened market uncertainty, firms are assuming new spatial and organizational forms to remain innovative and competitive. This course surveys both theories and policies on these restructuring initiatives in advanced capitalist countries. In addition to assessing the new challenges and opportunities that firms face in the present context, the course examines the changing role of national, state, and local governments in encouraging and shaping new economic development strategies.

NOTE: Students who have received credit for URBS 450 or for this topic under a GEOG 498 or URBS 498 number may not take this course for credit.

GEOG 458 *Environmental Impact Assessment* (3 credits)

Prerequisite: GEOG 355 or permission of the Department. This course examines the conceptual bases, procedures, and methodology of Environmental Impact Assessment (EIA). The effectiveness of EIA as a decision-making process in the promotion of good environmental planning is analyzed, including its role in assessing the potential effects of certain activities on the natural environment as well as on social, cultural, and economic aspects of the environment.

GEOG 463 *Advanced Geographic Information Systems* (3 credits)

Prerequisite: GEOG 363 or URBS 335; or permission of the Department. This course focuses on database structure and management as well as advanced spatial analysis techniques. It considers both practical and theoretical questions of interpretation of GIS in the context of particular problems and real data sets. The course involves hands-on use of ArcGIS software in a laboratory setting. Lectures and laboratory.

GEOG 465 *Remote Sensing* (3 credits)

Prerequisite: GEOG 363 or URBS 335, or permission of the Department. This course provides basic knowledge about the theory and practice of remote sensing, its potential and limits. The course is divided in five parts: 1) fundamentals of remote sensing, where the physical basis of remote sensing is explained; 2) sensors and orbits (different types of sensors, passive, active, and thermal sensors); 3) digital image processing, looking at image enhancement, filtering, classification, and how to obtain thematic data from raw imagery; 4) applications of remote sensing such as forestry, urban studies, water pollution, and agriculture; and 5) problems and challenges associated with remote sensing. Practical examples for all these topics will be covered in the laboratory sessions. Lectures and laboratory.

GEOG 466 *Geomedia and the Geoweb* (3 credits)

Prerequisite: GEOG 363 or URBS 335; or permission of the Department. This course introduces students to geospatial technologies that have dramatically changed the way one interacts with the environment. Students acquire the geovisualization skills required to design meaningful maps in the context of the Geoweb, and are exposed to the growing body of literature that critically envisions the socio-political dimensions of these new forms of cartographic expression. Lectures and laboratory.

GEOG 467 *Environmental Modelling* (3 credits)

Prerequisite: GEOG 362 or BIOL 322; enrolment in the BSc Honours Environmental Science or BA Honours Human Environment; permission of the Department. The different approaches to modelling the biophysical, built, or human environment are examined. The conceptualization of simple models to examine how human interventions affect the environment is investigated. Different modelling approaches such as system models, computer visualization and simulation are covered. Students develop a model scheme related to a topic of interest. Lectures and laboratory.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 470 Environmental Management (3 credits)

Prerequisite: GEOG 375 or 377, or permission of the Department. This course provides students with an understanding and appreciation of the field of environmental management and its contribution to addressing the impacts of human activities on the natural environment. Assessment of the limitations associated with conventional command-and-control approaches to environmental management are considered. The course also focuses on emerging concepts and frameworks associated with a recent rethinking of environmental management approaches, including complex adaptive systems, social-ecological systems, and resilience.

GEOG 472 Environmental Change during the Quaternary (3 credits)

Prerequisite: Six credits of physical geography at the 300 level or permission of the Department. This course examines environmental change over the last three million years to show how the biophysical environment and the landscape of the Earth have changed during the time that humans have lived on the planet. Theories covered include climate and sea-level changes as well as changes in vegetation associations, sea-ice cover, and numbers of mammals. Particular attention is paid to the degree and frequency of change and techniques of assessing environmental change.

NOTE: Students who have received credit for GEOG 372 or this topic under a GEOG 498 number may not take this course for credit.

GEOG 473 Environment and Health (3 credits)

Prerequisite: GEOG 317 or permission of the Department. This course examines geographical approaches to the study of health, focusing on the investigation of spatial variations in disease incidence, the ecology of selected diseases, and the links between health and the biophysical, social, and built environment. Focus is placed on critical examinations of approaches and methods of explanation.

GEOG 474 Sustainable Forest Management (3 credits)

Prerequisite: GEOG 372 or 373 or 374; or permission of the Department. This course looks at changes in the exploitation and sustainable management of the forest resource in Canada and the United States. Topics include the evolution of harvesting strategies and their effect on species composition; the effects of technological changes in cutting, transportation, and milling on forests; and the recent evolution of the tension between environmentalists and foresters. There is a mandatory field trip.

GEOG 475 Water Resource Management (3 credits)

Prerequisite: GEOG 355; GEOG 375 or 377; or permission of the Department. This course examines the complexity of, and necessity for, better water resource management from the viewpoint of ecological and economic sustainability as well as social equity and basic human health and dignity. Topics include the qualities, values, and uses of water — consumptive and non-consumptive, economic and environmental; major regional and global water management issues; factors affecting water supply reliability and challenges to maintain and improve long-term quality and equitable service in different situations; and the ways domestic, industrial, and agricultural water users can conserve water.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 478 Climate Change: Science, Impacts and Policy (3 credits)

Prerequisite: GEOG 378 or equivalent; or permission of the Department. This course examines the science, impacts and policy options surrounding recent and future global climate change. The first part of the course focuses on the basic science of global warming including the greenhouse effect, climate models, and predictions of future climate change, and an assessment of possible climate impacts. The course concludes with an overview of potential solutions to climate change, including national and international climate policy, energy alternatives, and technological approaches to reducing human impacts on the climate system.

NOTE: Students who have received credit for this topic under a GEOG 498 number may not take this course for credit.

GEOG 490 Internship in Geography (3 credits)

Prerequisite: Permission of the Department. This course provides final-year students the opportunity to apply their geographical skills and training in a workplace environment. In consultation with the supervisor, students identify a placement related to their interests, develop and carry out a project approved by both employer and academic supervisor, and/or keep a daily log of how the tasks and duties performed relate to and build upon their academic studies. The internship involves 100 hours of unpaid work and contribution to a seminar series.

GEOG 491 (also listed as URBS 491)**Honours Essay** (6 credits)

Prerequisite: Permission of the Department. The course requires the student to propose and conduct a research project and to produce a substantial report under the supervision of a faculty advisor.

GEOG 495 Field Research (3 credits)

Prerequisite: 30 program credits and permission of the Department. This course gives the student the experience of field research in human-environment interactions. The field excursion, often in combination with a local organization, is typically two or three weeks in duration.

GEOG 498 Advanced Topics in Geography (3 credits)**GEOG 499 Advanced Topics in Geography** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

Geology

GEOL 203 *Introduction to Environmental Geology* (3 credits)

Prerequisite: GEOL 210 recommended. Environmental geology is concerned with the physical, chemical, and biological processes that have acted, and continue to act, upon the planet, shaping its evolution. The course examines the interactions of lithosphere, mantle, core, biosphere, atmosphere, cryosphere, and hydrosphere. The Earth's climate is in part determined by these Earth system interactions, and climate change throughout the Earth's history is a central theme of the course.

GEOL 204 *Natural Disasters* (3 credits)

This course introduces students to natural disasters. Students gain an understanding of the geological and meteorological environments of the world that allow humans to plan for avoidance and mitigation of disasters. Topics may include plate tectonics, earthquakes, volcanoes, tsunamis, landslides and mudslides, hurricanes, floods, wildfires, ice storms, thunderstorms, and tornadoes.

NOTE: Students who have received credit for this topic under a GEOL 298 number may not take this course for credit.

GEOL 206 *Earthquakes, Volcanoes, and Plate Tectonics* (3 credits)

This course is for students with little or no previous background in the earth sciences, providing an up-to-date account of our present knowledge of earthquakes and volcanoes, and the use of this information in the development of the theory of plate tectonics. Areas of concentration are: nature, distribution, and causes of earthquakes and volcanic eruptions, measuring earthquakes, great earthquakes and volcanic eruptions in world history, products of volcanic eruptions, and hazards from, and prediction of, earthquakes and volcanic eruptions. The theory of plate tectonics and the evolution of mountain belts of the world are studied. Lectures only.

GEOL 208 *The Earth, Moon and the Planets* (3 credits)

The course emphasizes the cosmic perspective of the Earth and focuses attention on how the results of the last two decades of planetary exploration have brought about an intellectual revolution concerning the planets, especially their surface features, processes, and histories. Lectures only.

GEOL 210 *Introduction to the Earth* (3 credits)

This course provides an overview of the physical processes that govern how the Earth works. Topics include origin of the solar system and Earth; analysis of the internal structure of the Earth; minerals and rocks; igneous and metamorphic processes; deformation of the crust; surficial processes, including weathering, deposition and glaciation. The course culminates with the integration of these geological processes in the theory of plate tectonics, and goes on to examine the interactions of crust, mantle, atmosphere, and biosphere from this perspective. Laboratory work includes the identification of rocks and minerals, map exercises, and a field trip. Lectures and laboratory.

GEOL 216 *Field Methods* (3 credits)

Prerequisite: GEOL 210. The purpose of this course is twofold: to learn the basic methods that geologists, physical geographers, and environmental scientists use in the field (including learning how to map, measuring stratigraphic sections, and solving field problems based on observations) and to become familiar with the immediate geological environment of the Montreal region from the young Quaternary sediments, Mesozoic intrusive rocks and Paleozoic assemblages (including rocks of the St. Lawrence Lowlands) to the ancient Precambrian, crystalline basement. Two-week field school in the spring, immediately after the final examination.

GEOL 298 *Selected Topics in Geology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOL 302 *Palaeobiology* (3 credits)

Prerequisite: GEOL 210. General discussion covers taphonomy, processes and patterns of evolution, extinction, ontogeny, palaeoecology and taxonomy. Systematics, morphology, biostratigraphic value of selected macro-invertebrate fossils will be included in the latter half of the course. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 212 may not take this course for credit.

GEOL 331 *Evolution of the Earth* (3 credits)

Prerequisite: GEOL 210 or permission of the Department. The geological evolution of planet Earth is studied in the context of the theory of plate tectonics using interpretations of stratigraphic, structural, seismic, paleontologic, and geochronologic data. A systematic review of the geological evolution of the Earth and development of life forms is examined from the time of formation of the Earth to the present, including case studies of mountain belts. In the lab, rock suites and geological maps representative of different periods of Earth history are examined. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 310 may not take this course for credit.

GEOL 398 *Selected Topics in Geology* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

GEOL 414 Undergraduate Research (6 credits)

Prerequisite: For third-year honours students. Honours students in their final year are expected to show competence in isolating and examining a geological problem under the supervision of a faculty advisor. A written application to take the course, including a brief outline of the research project, must be made to the Department before April 15 of the second year. The application is reviewed by a committee and a decision forwarded by mail. The results of research must be presented in the form of an undergraduate thesis, two copies of which must be submitted by April 1.

NOTE: Written requests from specialization students, with appropriate academic records, to take the course will be considered.

GEOL 415 Plate Tectonics and Crustal Evolution (3 credits)

Prerequisite: GEOL 210; GEOL 331 or GEOG 377; or permission of the Department. Techniques of data collection in tectonics. Structure and rheology of the upper mantle. Tectonics of crustal types to include shields, platforms, passive continental margins, phanerozoic foldbelts, continental rifts, island-arc trench belts and oceanic rises, sea-floor spreading, plate tectonics, magma associations, and plate reconstructions. Crustal origin and growth. Lectures and laboratory.

NOTE: Students who have received credit for GEOL 315 may not take this course for credit.

GEOL 440 Seminar in Current Research on Environmental Earth Science (3 credits)

Prerequisite: GEOL 331 or GEOG 377, or 60 credits in an Engineering program, or permission of the Department. This course covers current research in environmental Earth science; topics vary from year to year, but will generally include: mantle-biosphere-atmosphere interactions, the carbon and methane cycles, and the geological climate record. Evaluation is based on seminar participation and written work.

NOTE: Students who have received credit for this topic under a GEOG or GEOL 498 number may not take this course for credit.

GEOL 498 Advanced Topics in Geology (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

31.130.1 URBAN STUDIES

Urban Studies is a multidisciplinary program, designed to introduce the student to the processes of planned change in urban environments. Urban Studies provides a core of urban-planning courses involving field studies, planning projects, and the acquisition of technical skills. Complementary courses in Sociology, Political Science, Economics, and Geography provide the necessary approaches and understanding in order to consider complex urban development. The program is designed for students planning to undertake a post-graduate degree in planning or a related field and also provides required training for work in the planning, real estate, and social service fields.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

All course substitutions must be approved by the director of Urban Studies and Urban Planning. Students enrolled in the Major in Urban Studies, or other undergraduate programs in Arts and Science, seeking to transfer to the BA Specialization in Urban Planning normally request a transfer at the end of their first year, after completing a minimum of nine URBS credits. A minimum GPA of 2.7 is required to transfer. Students request transfer by submitting a short letter of intent to the Department by April 30. The director communicates the decision directly to students by the end of May.

For the following programs URBS 230³ and URBS 240³ may serve as prerequisites for courses in Anthropology and Sociology.

66 BA Honours in Urban Planning

Stage I

15 URBS 230³, 240³, 250³, 260³, 293³

Stage II

15 URBS 300³, 333⁶, 335³, 360³

12 Chosen from GEOG 330³; URBS 310³, 338³, 380³; and up to 3 credits from ARTH 374³, POLI 349³

Stage III

12 URBS 433⁶, 491⁶

12 Chosen from URBS 420³, 450³, 460³, 480³, 481³, 486³, 488³, 490³, 495³; and up to 6 credits from GEOG 463³, 465³, 466³

63 BA Specialization in Urban Planning

Stage I

15 URBS 230³, 240³, 250³, 260³, 293³

Stage II

15 URBS 300³, 333⁶, 335³, 360³

12 Chosen from GEOG 330³; URBS 310³, 338³, 380³; and up to 3 credits from ARTH 374³, POLI 349³

	<i>Stage III</i>
6	URBS 433 ⁶
15	Chosen from URBS 420 ³ , 435 ³ , 450 ³ , 460 ³ , 480 ³ , 481 ³ , 483 ³ , 486 ³ , 488 ³ , 490 ³ , 495 ³ ; and up to 6 credits from GEOG 463 ³ , 465 ³ , 466 ³
42	BA Major in Urban Studies
	<i>Stage I</i>
12	URBS 230 ³ , 240 ³ , 250 ³ , 260 ³
	<i>Stage II</i>
9	URBS 300 ³ , 335 ³ , 360 ³
12	Chosen from GEOG 318 ³ , 330 ³ ; URBS 310 ³ , 338 ³ , 380 ³ ; and up to 3 credits from ARTH 374 ³ , POLI 349 ³
	<i>Stage III</i>
9	Chosen from URBS 420 ³ , 450 ³ , 460 ³ , 480 ³ , 481 ³ , 486 ³ , 488 ³ , 490 ³ , 495 ³ ; and up to 3 credits from GEOG 463 ³ , 465 ³ , 466 ³
30	Minor in Urban Studies
6	URBS 230 ³ , 240 ³
24	Chosen from GEOG 220 ³ , 330 ³ ; URBS 250 ³ , 260 ³ , 293 ³ , 300 ³ , 310 ³ , 338 ³ , 380 ³ , 420 ³ , 450 ³ , 460 ³ , 480 ³ , 481 ³ , 486 ³ , 488 ³ , 490 ³

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

URBS 210 *Urban Issues* (3 credits)

This course presents contemporary issues regarding the city and includes a behind-the-scenes look at how planning and development are carried out. The principles and practices of community planning are addressed to enable students to develop critical thinking skills about the metropolitan world in which they live.

URBS 230 *Urban Development* (3 credits)

This course examines how and why cities grow and change over time. The relationships between socio-cultural, economic, and physical aspects of urban development are considered at the local, city, and regional scales.

NOTE: Students who have received credit for URBS 280 may not take this course for credit.

URBS 240 *Planning* (3 credits)

This course examines the emergence and evolution of contemporary planning ideas within the broader historical context of 19th- and 20th-century city development. Special attention is given to how planning theories and practices have informed the development and management of urban, suburban and rural environments.

URBS 250 *Representation Methods in Urban Studies* (3 credits)

This course introduces students to theories and methods of graphic representation. It focuses on methods used to analyze and communicate data with an emphasis on spatial information on built and social environments. The representation methods include two- and three-dimensional views, cartography, as well as data visualization. Physical and digital tools are covered. Lectures and laboratory.

URBS 260 *Analytical Methods in Urban Studies* (3 credits)

This is an introduction to qualitative research skills associated with urban studies. The emphasis is on the use of data sources and collection techniques along with analytical procedures appropriate to questions of urban planning and public policy. Lectures and laboratory.

URBS 293 *Law and Regulation in Urban Planning* (3 credits)

Urban planning as governmental activity is defined by planning legislation in Quebec. This course covers the major bodies of legislation on urban plans, local development plans, environmental protection, agricultural land preservation, heritage and economic development. The law is a framework for development control and direct intervention at the municipal, regional and provincial levels. This is an essential course for those intending to practise urban planning at the municipal level and a good background for the Urban Planning laboratories.

NOTE: Students who have received credit for this topic under a URBS 298 or 398 number may not take this course for credit.

URBS 298 *Selected Topics in Urban Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and Geography Course Guide.

URBS 300 *Neighbourhood and Community Planning* (3 credits)

Prerequisite: GEOG 220 or URBS 230. This course examines theories, issues, and techniques of community-level planning in urban and suburban environments. Particular place-based or identity-based communities and their participation in planning processes are considered. Models of community change and local development are reviewed, along with the policies and supportive infrastructure in cities, including Montreal. Local governance, decision-making, and public participation are considered in light of municipal and regional institutions which currently predominate in Canada's metropolitan areas.

URBS 310 *Urban Transportation* (3 credits)

Prerequisite: GEOG 220 or URBS 230 or permission of the Department. This course examines the past evolution and recent functioning of various transport modes in cities around the world. Recent debates about desirable levels of car, transit, and non-motorized modes feature prominently. Techniques of analyzing urban transport and public policy options are considered in light of burgeoning concerns about sustainable development and the worldwide growth of motorization.

NOTE: Students who have received credit for GEOG 333 may not take this course for credit.

URBS 333 *Urban Laboratory* (6 credits)

Prerequisite: URBS 250, 260; enrolment in the BA Honours in Urban Planning or BA Specialization in Urban Planning. With an emphasis on first-hand knowledge of an area-based problem, students study an urban problem and simulate solutions. Theory and case studies are used to develop appropriate interventions. Plans are prepared and, under the supervision of the professor, are evaluated by the peer group and experts in the field.

URBS 335 *Geographic Information Systems* (3 credits)

Prerequisite: URBS 250. This course is an introduction to current theoretical and practical approaches to Geographic Information Systems (GIS) through which students acquire basic skills and understanding in the use of GIS for spatial analysis. Training is centred on a series of practical assignments using ArcGIS software and for the term project, students explore the potential of GIS for addressing a real-world problem. Lectures and laboratory.

NOTE: Students who have received credit for GEOG 363, URBS 387, or URBS 487 may not take this course for credit.

URBS 338 *Urban Ecology* (3 credits)

Prerequisite: 24 credits; or permission of the Department. Focusing on the impacts of human activities on fauna, flora, soils and air, this course introduces students to ecosystems found in urban environments. This course also examines the flux of energy and materials to and from the city, and places a strong emphasis on policy and planning practices related to urban forestry, site restoration, greening initiatives, environmental justice, and on practices that foster biodiversity and responsible resource management. The course also looks at historical and contemporary views on the relationship between the city and nature.

URBS 360 *Quantitative Research Methods* (3 credits)

Prerequisite: URBS 260. This course covers the most commonly employed methods for quantitative social science research. Students are taught the basics of introductory classical statistics (both descriptive and inferential) and gain experience applying these methods with commonly used software tools and real-world data. Lectures and laboratory.

URBS 380 *Urban and Regional Economic Development* (3 credits)

Prerequisite: URBS 230, 240. This course draws on economic and geographical concepts to examine the process of urbanization. Students begin by focusing on the conventional tools and models for analyzing the nature and structure of cities, and at theories concerning the location of economic activity. It also examines key planning issues associated with the (evolving) role of cities as place of production, distribution, and consumption and considers the role of public policy in addressing these issues. Methods for defining and measuring urban economies for the purpose of analysis are reviewed.

URBS 398 *Selected Topics in Urban Studies* (3 credits)

Special topics in urban studies.

URBS 420 *The Social and Cultural Geographies of Montreal* (3 credits)

Prerequisite: GEOG 361 or URBS 360. This course explores the social and cultural geographies of Montreal with particular emphasis on how the spatial distribution of communities influences urban planning and public policy at the local and regional levels. Complex webs of identities and solidarities informed by socio-economic, linguistic, ethno-cultural, and sexual orientation factors shape the city living experience of individuals and populations alike. Through lectures, discussions, assignments and field trips, students are introduced to a variety of analytical perspectives that investigate the socio-cultural dynamics that contribute to shaping urban settlements, human-environment interactions and local social networks.

NOTE: Students who have received credit for URBS 320 or GEOG 430 may not take this course for credit.

URBS 433 *Advanced Urban Laboratory* (6 credits)

Prerequisite: URBS 333. This is an advanced course in urban design. An overview of current theory and practice is presented. An urban problem is developed and appropriate interventions are considered. These interventions are simulated and the results assessed.

URBS 435 *Transportation Impact Assessment* (3 credits)

Prerequisite: URBS 310 or GEOG 333; URBS 335 or GEOG 363; or permission of the Department. This course introduces students to the quantitative analysis of the environmental (e.g. emissions) and social impacts (e.g. accessibility) of transportation system interventions. Students are introduced to, and gain hands-on experience with, the traditional transportation planning and modelling process aided by the use of a Geographic Information System (GIS)-based transportation decision aid tool. A real-world case-study region and transportation system are used to illustrate the different elements of the planning and modelling process and how this can be used in impact assessment. Lectures and laboratory.

NOTE: Students who have received credit for GEOG 435 or for this topic under a GEOG 498 or URBS 498 number may not take this course for credit.

URBS 450 *Industrial Restructuring* (3 credits)

Prerequisite: GEOG 318 or URBS 380 or permission of the Department. In the age of globalization and heightened market uncertainty, firms are assuming new spatial and organizational forms to remain innovative and competitive. This course surveys both theories and policies on these restructuring initiatives in advanced capitalist countries. In addition to assessing the new challenges and opportunities that firms face in the present context, the course examines the changing role of national, state, and local governments in encouraging and shaping new economic development strategies.

NOTE: Students who have received credit for GEOG 450 or for this topic under a URBS 498 or GEOG 498 number may not take this course for credit.

URBS 460 *Reading the Urban Form* (3 credits)

Prerequisite: URBS 360 and completion of 48 university credits; or permission of the Department. This course focuses on the physical reality of the city, or its urban form, as well as the ongoing process of city building and urban morphogenesis. It introduces tools to properly describe, quantify, and interpret urban form in its spatial and temporal dimensions. It seeks to develop a better understanding of the processes of which the contemporary urban artifact is the result. Along with theoretical presentations, the course makes use of case studies conducted in different urban and cultural contexts, and introduces many examples of practical applications of morphological analysis in urban planning and design.

NOTE: Students who have received credit for this topic under a URBS 498 number may not take this course for credit.

URBS 480 *Impact Assessment* (3 credits)

Prerequisite: URBS 360 and completion of 48 university credits; or permission of the Department. The impacts of projects on urban and suburban communities and the environment are studied within the context of environmental protection legislation. The methods of assessment are then applied to specific cases.

URBS 481 *Urban Planning in the Developing World* (3 credits)

Prerequisite: GEOG 330 or URBS 380 or permission of the Department. This course explores the growth and planning of large metropolitan areas in developing nations, with a focus on East and South East Asia. Issues and problems associated with recent urbanization are examined along with potential solutions offered by urban planning and public policies. The planning roles of institutions including governments, multi-lateral development agencies, and non-governmental organizations are reviewed.

NOTE: Students who have received credit for this topic under a URBS 398, GEOG 398, URBS 498, or GEOG 498 number may not take this course for credit.

URBS 483 *Directed Studies/Practicum in Urban Planning I* (3 credits)

Prerequisite: Completion of 60 university credits; enrolment in the Specialization in Urban Planning. Through a case study or practicum of 120 hours with a private or public institution, or community interest group, students acquire experience in a professional working environment.

URBS 484 *Directed Studies/Practicum in Urban Planning II* (3 credits)

Prerequisite: Completion of 60 university credits; enrolment in the Specialization in Urban Planning. Through a case study or practicum of 120 hours with a private or public institution, or community interest group, students acquire experience in a professional working environment.

URBS 486 *Behaviour and the Environment* (3 credits)

Prerequisite: URBS 360 and completion of 48 university credits; or permission of the Department. Human behaviour is seen both as a determinant and as an outcome of environment. Behavioural topics include perception and attitudes, spatial behaviour, spatial cognition, and time-path analysis. Student projects involve applying the theory to a location study, a facility management study, or other relevant application.

URBS 488 *Analyzing Choice* (3 credits)

Prerequisite: URBS 360 or GEOG 362; or permission of the Department. This course examines the theory and statistical techniques commonly used to analyze choice. Students design, administer and analyze the results of a stated preference survey on a topic related to people's choices and the environment.

URBS 490 *Public Space and the Public Interest* (3 credits)

Prerequisite: URBS 360 and completion of 48 university credits; or permission of the Department. Public space is understood as physical space, as well as the space of media and communications, which are openly accessible to all members of a community. Changing definitions of public space are examined in the context of societal and cultural change. The roles of agents and stakeholders in changing the definitions of public interest are also examined. Legal and normative frameworks for the definition of space, control, and access are also introduced.

NOTE: Students who have received credit for this topic under a URBS 498 number may not take this course for credit.

URBS 491 *Honours Thesis or Project* (6 credits)

Prerequisite: Completion of 60 university credits; enrolment in the Honours in Urban Planning. Students may undertake independent, supervised research leading to the production of an honours thesis. They may also undertake a major urban study leading to recommendations for public or private interventions.

NOTE: Students who have received credit for GEOG 491 may not take this course for credit.

URBS 495 *International Field Research* (3 credits)

Prerequisite: 60 university credits and permission of the Department. The political, social, and cultural realities of planning in a setting outside Canada are explored in a field course. Preparation for the field experience at home is accompanied by a stay in the chosen international city, where a field investigation is conducted, usually in collaboration with local partner organizations.

NOTE: Students who have received credit for this topic under an URBS 398 or 498 number may not take this course for credit.

URBS 498 *Advanced Topics in Urban Studies* (3 credits)

Special topics in urban studies.

31.160

HISTORY

Faculty

Chair

NORMAN INGRAM, PhD Edin., Professor, Provost's Distinction

Associate Chair

FREDERICK BODE, PhD Yale, Professor

Distinguished Professors Emeriti

ALAN H. ADAMSON, PhD Lond.
DONALD E. GINTER, PhD Calif.(Berkeley)
ROBERT TITTLER, PhD N.Y.
MARY VIPOND, PhD Tor.

Professors

GRAHAM CARR, PhD Maine
FRANK R. CHALK, PhD Wis.(Madison)
PETER GOSSAGE, PhD U.Q.A.M.
STEVEN HIGH, PhD Ott.
SHANNON McSHEFFREY, PhD Tor., Provost's Distinction
RONALD RUDIN, PhD York (Can.), Provost's Distinction

Associate Professors

RACHEL BERGER, PhD Camb.
CAROLYN FICK, PhD C'dia.
ANDREW IVASKA, PhD Mich.
WILSON CHACKO JACOB, PhD N.Y.
NORA E. JAFFARY, PhD Col.
ERICA LEHRER, PhD Mich.
BARBARA LORENZKOWSKI, PhD Ott.
TED McCORMICK, PhD Col.
ELENA RAZLOGOVA, PhD George Mason
ERIC H. REITER, PhD Tor.
ALISON ROWLEY, PhD Duke
ROSEMARIE SCHADE, DPhil York (U.K.)

Assistant Professor, James M. Stanford Professorship in Genocide and Human Rights Studies

MAX BERGHOLZ, PhD Tor.

Assistant Professors

MATTHEW PENNEY, PhD Auck.
TIMOTHY SEDO, PhD Br.Col.
THERESA VENTURA, PhD Col.
ANYA ZILBERSTEIN, PhD M.I.T.

Senior Lecturer

GAVIN TAYLOR, PhD William & Mary

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
J.W. McConnell Building, Room: LB 1001
514-848-2424, ext. 2435

Department Objectives

It is the mission of the Department of History not only to train historians but to produce articulate and informed graduates who share its commitment to serving the broader community. The Department therefore encourages strength in both teaching and research, responsiveness to a wide range of intellectual perspectives, and involvement in community affairs.

Programs

Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.

60 BA Honours in History

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits. Students must have a minimum cumulative GPA of 3.3 (B+). All students must maintain a minimum cumulative GPA of 3.3 as well as a minimum annual GPA of 3.3 within courses in History. The minimum acceptable grade in any course is normally "C."

A. Honours Essay Option

- 6 History of Europe (HIST 201³, 202³)
- 3 History of Asia or Africa (from among HIST 242³, 261³, 262³, 263³, 264³)
- 3 History of the Americas (from among HIST 203³, 205³, 209³, 210³, 251³, 253³, 276³, 277³)
- 6 HIST 200-level courses
- 15 HIST 300-level courses
- 3 HIST 304³ (*Tutorial Preparation for the Honours Essay*)
- 3 HIST 402³ (*The Philosophy and Practice of History*)
- 3 HIST 403³ (*Methodology and History*)
- 6 HIST 493⁶ (*Honours Essay Tutorial*)
- 12 HIST 400-level seminars

B. Seminar Option

- 6 History of Europe (HIST 201³, 202³)
- 3 History of Asia or Africa (from among HIST 242³, 261³, 262³, 263³, 264³)
- 3 History of the Americas (from among HIST 203³, 205³, 209³, 210³, 251³, 253³, 276³, 277³)
- 6 HIST 200-level courses
- 18 HIST 300-level courses
- 3 HIST 402³ (*The Philosophy and Practice of History*)
- 3 HIST 403³ (*Methodology and History*)
- 18 HIST 400-level seminars

C. Public History with Internship Option

- 6 History of Europe (HIST 201³, 202³)
- 3 History of Asia or Africa (from among HIST 242³, 261³, 262³, 263³, 264³)
- 3 History of the Americas (from among HIST 203³, 205³, 209³, 210³, 251³, 253³, 276³, 277³)
- 6 HIST 200-level courses
- 6 HIST 300-level courses
- 3 HIST 300-level courses or elective credits from related disciplines
- 3 HIST 306³
- 6 Chosen from HIST 379³, 380³, 381³, 387³, 388³, 389³, 397³
- 3 HIST 402³ (*The Philosophy and Practice of History*)
- 3 HIST 403³ (*Methodology and History*)
- 9 HIST 400-level seminars
- 3 HIST 481³
- 3 HIST 485³
- 3 HIST 486³

60 BA Specialization in History

- 6 History of Europe (HIST 201³, 202³)
- 6 History of Asia or Africa (from among HIST 242³, 261³, 262³, 263³, 264³)
- 6 History of the Americas (from among HIST 203³, 205³, 209³, 210³, 251³, 253³, 276³, 277³)
- 9 HIST 200-level courses
- 27 HIST 300-level courses
- 6 Chosen from any HIST 300- or 400-level courses

60 BA Joint Specialization in English and History

- 6 ENGL 261³, 262³
- 6 Periods before 1800 (British) from ENGL 302⁶, 304⁶ through 328³, 430³ through 441³
- 6 Canadian, American, and postcolonial from ENGL 244³, 360⁶ through 388³, 449³ through 455³

- 6 19th century and 20th century (British and European) from ENGL 324⁶, 331³ through 359³, 394³, 442³, 443³, 446³
 6 Elective credits from ENGL 224³ through 499³
 6 History of Europe (HIST 201³, 202³)
 9 HIST 200-level courses
 9 HIST 300-level courses
 6 HIST 300- or 400-level courses
- 42 BA Major in History**
 6 History of Europe (HIST 201³, 202³)
 3 History of Asia or Africa (from among HIST 242³, 261³, 262³, 263³, 264³)
 3 History of the Americas (from among HIST 203³, 205³, 209³, 210³, 251³, 253³, 276³, 277³)
 6 Chosen from any HIST 200-level courses
 18 Chosen from any HIST 300-level courses
 6 Chosen from any HIST 300- or 400-level courses

- 24 Minor in History**
 6 HIST 201³, 202³
 12 HIST 200 -level courses
 6 HIST 300-level courses

- 24 Minor in Law and Society**
 3 ANTH/HIST/POLI/SOCI 285³
 6 Chosen from ANTH 202³; HIST 205³; POLI 204³; SOCI 261³
 15 Chosen from ANTH 380³, 363³; FPST 301³, 321³; HIST 309³, 315³, 316³; PHIL 343³, 345³; POLI 311³, 320³, 350⁶, 388³, 398O³; PSYC 242³; RELI 312³; SOCI 262³, 263³, 362³; of which no more than 3 credits may be at the 200 level; of which no more than 12 credits may be from one department.

NOTE: For details on the course descriptions in the program listed above, please refer to the individual departmental course listings.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are generally open only to students who have successfully completed 24 credits. Students who do not have this prerequisite may register with the permission of the Department.
- (2) 400-level courses are generally open to honours and specialization students, or students of high academic standing with the permission of the Department.

HIST 201 *Introduction to European History to 1789* (3 credits)

A survey of the history of Europe to the French Revolution, with emphasis on the development of ideas and political institutions.

NOTE: Students who have received credit for HISZ 201 may not take this course for credit.

HIST 202 *Introduction to European History, from 1789 to the Present* (3 credits)

A survey of the history of Europe from the French Revolution to the present, with emphasis on the development of ideas and political institutions.

NOTE: Students who have received credit for HISZ 202 may not take this course for credit.

HIST 203 *History of Canada, Pre-Confederation* (3 credits)

A survey of Canadian history, from settlement to Confederation, emphasizing readings and discussions on selected problems.

HIST 205 *(also listed as SCPA 205)*

History of Canada, Post-Confederation (3 credits)

A survey of Canadian history from Confederation to the present, emphasizing readings and discussions on selected problems.

NOTE: Students who have received credit for HISZ 205 or SCPA 205 may not take this course for credit.

HIST 209 *Quebec to 1867* (3 credits)

An introductory survey of the history of Quebec from its origins as a colony to the creation of modern Canada by the British North American Act of 1867. Particular emphasis is placed on a consideration of those elements of Quebec's past which best assist in the comprehension of the trends prevalent in modern Quebec.

HIST 210 *(also listed as SCPA 210)*

Quebec since Confederation (3 credits)

A survey of the history of Quebec from the time of Confederation until the present. While due emphasis is placed on political developments in the province, the purpose of the course is to acquaint the student with the significant economic and social trends in modern Quebec.

NOTE: Students who have received credit for SCPA 210 may not take this course for credit.

HIST 211 (also listed as IRST 211)***History of Ireland*** (3 credits)

This survey course traces the history of Ireland from the earliest times to the present, with emphasis on the 19th and 20th centuries. Special attention is given to the development of Irish nationalism and relations with Great Britain.

NOTE: Students who have received credit for IRST 211 or for this topic under an IRST 298 number may not take this course for credit.

HIST 212 (also listed as IRST 210)***The Irish in Canada*** (3 credits)

From 17th-century fishermen and traders arriving in Newfoundland to displaced victims of the Famine in the 19th century, to contemporary immigrants from Ireland, the Irish have had a presence in all parts of Canada from the earliest days of settlement. This course examines the emigration and settlement patterns of Irish immigrants in the various regions of Canada across a period of three centuries, paying particular attention to their role in the social, economic, political, cultural, and educational development of Canadian society. The course explores the various strategies by which Irish immigrants both adapted to and transformed the particular host society in which they found themselves, and looks at other immigrant communities as a means of understanding the special contribution of the Irish to Canada.

NOTE: Students who have received credit for IRST 210 or for this topic under a HIST 398 number may not take this course for credit.

HIST 213 (also listed as IRST 205)***The Irish in Montreal*** (3 credits)

Drawing on a diversity of historiographical materials, this interdisciplinary course examines the story of the Irish in Canada with a particular emphasis on Quebec, from the French colonial period through the City of Montreal's golden era of mercantile prominence in the mid-19th century to the break-up of its older Irish neighbourhoods a century afterwards. Starting with the demographics of Irish immigration and settlement, it devotes special attention to social and cultural relations between the Irish and other ethnic groups.

NOTE: Students who have received credit for IRST 205 or for this topic under a HIST 398 number may not take this course for credit.

HIST 219 (also listed as CLAS 230)***Ancient Near East*** (3 credits)

A political, social, economic, and intellectual history of the ancient Near East, this course surveys the period from the origins of civilization in the middle of the fourth millennium to Alexander the Great's conquest of the Persian Empire in the latter part of the fourth century BC.

NOTE: Students who have received credit for CLAS 230 may not take this course for credit.

HIST 223 (also listed as CLAS 240)***Greek History from the Bronze Age to Alexander*** (3 credits)

This course offers a political, social, economic, and cultural history of Greece from the Minoan-Mycenaean period in the second millennium to the end of Classical Greek civilization in the fourth century BC, with special emphasis placed upon Athens.

NOTE: Students who have received credit for CLAS 240 may not take this course for credit.

HIST 225 (also listed as CLAS 242)***History of the Roman Republic*** (3 credits)

This course offers a political, social, economic and cultural history of Rome from the city's origins to the establishment of the Roman Empire under the Emperor Augustus.

NOTE: Students who have received credit for CLAS 242 may not take this course for credit.

HIST 235 *The Holocaust* (3 credits)

Beginning with a discussion of Jewish communities in Europe and America before 1933, this course traces the evolution of anti-Semitism, nationalism, and racism, the rise of Hitler and the Nazi movement, the shaping of Nazi ideology, the growing demonization of the victims of the Holocaust and the genocide against them in their various countries, resistance by the victims, and the parts played by bystanders in the outcome of the Holocaust.

NOTE: Students who have received credit for RELI 338 may not take this course for credit.

HIST 242 *History of the Middle East* (3 credits)

This course surveys the history of the Middle East from the rise of Islam to the present. It traces broadly the formation of an Islamic World over a millennium and follows its engagements with modernity, examining closely the shift from the overarching paradigm of the multi-ethnic/multilingual Ottoman Empire to that of the mono-ethnic/monolingual modern nation state. This course covers the political history of the region including the experience of British and French colonialism, the rise of nationalist movements, and the Arab-Israeli conflict, and focuses on its social, intellectual, and cultural history.

NOTE: Students who have received credit for HIST 240 or 241 may not take this course for credit.

HIST 251 *History of the United States to the Civil War Era* (3 credits)

This course surveys American history from settlement to the Civil War Era. It deals with the political and economic framework of American history, and with social and cultural trends.

HIST 253 *History of the United States since the Civil War Era* (3 credits)

This course surveys American history from the Civil War Era to the present. It deals with the political and economic framework of American history, and with social and cultural trends.

HIST 261 *History of South Asia* (3 credits)

This course is an introduction to the intellectual traditions, social structures, and political institutions of South Asia, with particular attention to developments during the past two centuries.

HIST 262 *History of China* (3 credits)

A survey of China's history from earliest times to the modern era.

HIST 263 *History of Japan* (3 credits)

This course surveys Japan's history from earliest times to the modern era. In addition to tracing political developments, it explores other themes such as the changing role of the samurai in history and the evolution of Japanese art, literature, and popular culture.

HIST 264 *History of Africa* (3 credits)

This course is an introductory survey of the history of Africa. It examines the major phenomena of African historical experience, including the development of precolonial kingdoms and trans-Saharan trade, the slave trade, colonial conquests, the rise of nationalism, the challenges of independence, and recent crises such as the Rwandan genocide and HIV-AIDS. Emphasis is placed on popular cultural expression through which people on the continent have experienced, understood, remembered, and negotiated broad historical shifts.

HIST 276 *History of Latin America: The Colonial Period* (3 credits)

This course surveys Latin America up to the wars of independence from Spain. The main themes examined are pre- and post-Columbian indigenous cultures; the Spanish conquest; patterns of colonial trade and economy; the role of the church; and the Bourbon reforms.

HIST 277 *History of Latin America: The Modern Period* (3 credits)

This course surveys Latin American society in the 19th and 20th centuries. The principal topics covered are the social and economic roots of political instability; Mexico under Porfirio Díaz; the Mexican Revolution; Argentina and Brazil under Perón and Vargas; U.S.-Latin American relations; Castro's Cuba; revolution and counter-revolution in contemporary Latin America.

HIST 281 *Film in History* (3 credits)

This course examines how selected commercial films interpret historical events or provide insight into the politics, society, and culture of the times in which they were produced. The course is designed to help develop critical skills for the understanding of film in an historical framework.

NOTE: Students who have received credit for HISZ 281, or for this topic under a HIST 298 or HISZ 298 number, may not take this course for credit.

HIST 283 *The 20th Century: A Global History* (3 credits)

This course introduces students to the history of some of the forces and institutions that have shaped the history of the world in the 20th century, which has been characterized by widespread warfare, genocides, and massive violations against human rights and the natural environment. It has also been a time of unprecedented prosperity of some groups and parts of the globe, as well as an era of tremendous scientific advances.

NOTE: Students who have received credit for HISZ 283 or LOYC 210, or for this topic under a HIST 298 or HISZ 298 number, may not take this course for credit.

HIST 285 *Introduction to Law and Society* (3 credits)

This interdisciplinary course examines the roles law plays in Canada and internationally, from the perspectives of history, political science, anthropology, sociology, and philosophy.

NOTE: Students who have received credit for ANTH 285, POLI 285, or SOCI 285, or for this topic under an ANTH 298, HIST 298, POLI 298, or SOCI 298 number, may not take this course for credit.

HIST 298 *Selected Topics in History* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

HIST 300 *British North America* (3 credits)

Prerequisite: See N.B. number (1). This course examines British imperial policy, cross-cultural contact and the development of colonial societies in 18th- and 19th-century North America.

HIST 301 *Late-19th-Century Canada* (3 credits)

Prerequisite: See N.B. number (1). This course examines the politics of confederation and explores the social, economic, and cultural impact of modernization.

HIST 302 *Natives and Newcomers* (3 credits)

Prerequisite: See N.B. number (1). This course examines the interaction of European colonists with the first peoples of eastern North America before 1800. The emphasis is on cultural exchanges between colonists and Natives in the areas of religion, trade, diplomacy, and warfare.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 303 *Native North American History Since 1800* (3 credits)

Prerequisite: See N.B. number (1). This course examines the history of Native North Americans, focusing on the period since 1800. Topics include the emergence of the reserve system and the policy of forced assimilation devised by the governments of Canada and the United States, and the political resurgence and cultural renaissance of Native communities since the mid-20th century.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 304 *Tutorial Preparation for the Honours Essay* (3 credits)

Prerequisite: Approved honours standing in History, or permission of the Department. This course provides honours students in History with the opportunity for tutorial reading and research in preparation for the writing of the honours essay.

HIST 305 *Race and Gender in Canadian History* (3 credits)

Prerequisite: See N.B. number (1). This course examines the lives and experiences of Canadian women and men marginalized because of their race, gender and/or sexuality. By looking at people on the margins, this course explores the intersections of gender, race, and space, and speaks to two key issues of today: equality and justice.

HIST 306 *History and the Public* (3 credits)

Prerequisite: See N.B. number (1). This course is an examination of the practice of history outside the academy and an introduction to the critical analysis of presentations of history in public and popular culture. Topics include archives, corporate and popular history, museums and historic sites, preservation, film and television, theme parks, and anniversary commemorations. A special emphasis is placed on public controversies and ethical dilemmas involving historical interpretations.

HIST 307 *History of Montreal* (3 credits)

Prerequisite: See N.B. number (1). A study of the origins of the city, its role in the Empire of the St. Lawrence, and its rise to metropolitan dominance in Canada. Special emphasis on economic development and on ethnic groupings.

HIST 308 *Cultures in Contact: A History of Migrations to North America* (3 credits)

Prerequisite: See N.B. number (1). This course traces the journeys of men, women, and children who left their homelands and came to North America in search of economic opportunities and political and religious freedoms. Focusing on the 19th- and 20th-century waves of migration, students examine the communities migrants created, the discrimination they faced, and the manifold ways in which they, in turn, changed their host societies.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 309 *Law and Society in Canadian History* (3 credits)

Prerequisite: See N.B. number (1). This course examines selected issues in Canadian history through the lens of important and controversial court decisions. The influence of legal decisions on society as well as public influence on the development of law is considered.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 310 *Canada in the Early-20th Century, 1896–1939* (3 credits)

Prerequisite: See N.B. number (1). An intensive study of early-20th-century Canada concentrating on selected themes in economic, political, social, and cultural history.

HIST 311 *Contemporary Canada, 1939 to the Present* (3 credits)

Prerequisite: See N.B. number (1). An intensive study of Canada since World War II concentrating on selected themes in economic, political, social, and cultural history.

HIST 313 *Quebec in the 19th Century* (3 credits)

Prerequisite: See N.B. number (1). This course explores the major social, economic, and political issues that arose during the 1800s in the transformation of Quebec from a pre-industrial to an industrial society.

HIST 314 *Quebec in the 20th Century* (3 credits)

Prerequisite: See N.B. number (1). This course explores the major social, economic, and political issues of 20th-century Quebec in the light of the concentration of economic power into relatively few hands early in the century and the declining importance of industrial production since World War II.

HIST 315 *Rights and Freedoms in Canadian Society* (3 credits)

Prerequisite: See N.B. number (1). This course examines historical and contemporary aspects of Canada's culture of rights. Topics include the origins and workings of the Canadian Charter and critiques of rights culture.

NOTE: Students who have received credit for this topic under a HIST 398 or POLI 398 number may not take this course for credit.

HIST 316 *Conflict and Its Resolution* (3 credits)

Prerequisite: See N.B. number (1). This course examines historical, social, cultural, and legal aspects of conflict and the different institutions and techniques that have developed to resolve it. Attention is given to both domestic and international dimensions of conflict.

NOTE: Students who have received credit for this topic under a HIST 398, POLI 398, or SCPA 398 number may not take this course for credit.

HIST 318 *Modernist New York* (3 credits)

Prerequisite: See N.B. number (1). This course explores the history of "Modernist New York" from the vantage points of social and cultural history. Focusing on the decades between 1870 and 1930, it examines the interplay of culture and commerce, the histories of elites and recent immigrants, the role of race, and the dramatic changes in the cityscape.

HIST 319 *Canadian History in Literature, Art and Film* (3 credits)

Prerequisite: See N.B. number (1). An examination of some major events and themes in Canadian history as seen by writers, artists, and filmmakers. Topics will vary from year to year, but will be selected to illustrate how creative works may be combined with more conventional historical sources to enhance our understanding of the past.

HIST 320 *American Culture, 1900–1945* (3 credits)

Prerequisite: See N.B. number (1). This course examines how American cultural expression was affected by the broader historical context of the period. Attention is given to changing aesthetic styles, the impact of technology on production and reception, and the role of culture as a representation of American identity.

HIST 321 *American Culture Since 1945* (3 credits)

Prerequisite: See N.B. number (1). This course examines different forms of artistic expression in the U.S. since World War II. Attention is given to changing aesthetic styles and technological developments, as well as to the role of culture as an expression of American identity at home and abroad.

HIST 323 (*also listed as CLAS 341*)***Greek History from Alexander to the Roman Conquest*** (3 credits)

Prerequisite: See N.B. number (1). A political, social, economic, and cultural history of the Greek world from Alexander the Great to the Roman conquest of Greece in 146 BC.

NOTE: Students who have received credit for CLAS 341 may not take this course for credit.

HIST 325 *The European Renaissance* (3 credits)

Prerequisite: See N.B. number (1). This course surveys European history from the beginnings of the Italian Renaissance in the late-14th century to the Reformation in the early-16th century. Major themes include Renaissance humanism, the emergence of print culture, the exploration of the New World, changes in social structure, and the consolidation of monarchy.

HIST 326 *Reformations in Early Modern Europe* (3 credits)

Prerequisite: See N.B. number (1). This course surveys the history of Europe from the early Reformation through the end of Europe's religious wars in the mid-17th century. Major themes include the politics of religion, the growth of commerce and social change, competition for empire, and transformation in scientific and political worldviews.

HIST 327 (*also listed as CLAS 343*)***History of the Roman Empire*** (3 credits)

Prerequisite: See N.B. number (1). This course offers a political, social, economic, and cultural history of the Roman Empire from Augustus to the end of the Roman Empire in the West.

NOTE: Students who have received credit for CLAS 343 may not take this course for credit.

HIST 328 *The Scientific Revolution* (3 credits)

Prerequisite: See N.B. number (1). This course explores the Scientific Revolution in the context of early modern European society and culture. Major themes include the debates over the methods, purposes, and scope of science; the relationship between science, the supernatural, and the occult; the relationship between science, technology, and craft; and scientific networks, institutions, and means of communication.

HIST 330 (*also listed as IRST 312*)***The Great Irish Famine*** (3 credits)

Prerequisite: See N.B. number (1). This course examines the Irish Famine and its impact on Irish society, culture, and history. Beginning with a thorough examination of the economic, political, and social structures in pre-Famine Ireland, the course studies the causes of, and responses to, the Famine and its impact on society in Ireland and the world, including Quebec. Consideration is also given to the continuing re-examination of the Famine and its role in the politics of memory.

NOTE: Students who have received credit for IRST 312 or for this topic under a HIST 398 number may not take this course for credit.

HIST 332 *United States, Cuban and Mexican Relations* (3 credits)

Prerequisite: See N.B. number (1). This course examines the history of the United States' relations with both Cuba and Mexico from the mid-19th century to the present. As well as studying the ramifications of U.S. involvement in such events as the Spanish-American War (1898), the Mexican Revolution (1910), and the Cuban Revolution (1959), it examines the demographic, political, and cultural impact that Cubans and Mexicans have had on the modern development of the U.S.A.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 333 *History of Haiti: From Contact to Independence* (3 credits)

Prerequisite: See N.B. number (1). This course is a study of Haitian history from early colonization through French control to independence in 1804. It covers pre-Columbian Taino society and the Spanish conquest; the period of piracy and French buccaneering in the 16th and 17th centuries; the emergence of a colonial slave society in the 18th century; the Haitian revolution

and the rise of Toussaint Louverture; questions of class and colour; the emergence of the state; contingencies of citizenship and independence. The legacies of the colonial and revolutionary periods are fundamental to an understanding of post-independence and present-day Haiti.

NOTE: Students who have received credit for HIST 339 may not take this course for credit.

HIST 334 *History of Haiti: From Independence to Present* (3 credits)

Prerequisite: See N.B. number (1). This course is a study of Haitian history from independence to the present. It covers the early post-independence regimes; the demise of the plantation economy and the emergence of the Haitian peasantry; the indemnity to France; later 19th-century neo-colonialism and political instability; the U.S. Marine Occupation (1915 – 1934); culture, race and politics during and after the Occupation; the rise of the Duvalierist state; and post-Duvalierist political instability.

NOTE: Students who have received credit for HIST 339 may not take this course for credit.

HIST 335 *Barbarian Invasions and the Birth of Europe* (3 credits)

Prerequisite: See N.B. number (1). This course examines the arrival and settlement of new populations in the Roman world. It analyzes the changes that this event brought in its wake. Classical civilization was disrupted, but there was also a symbiosis of the old and the new, which in time gave rise to Europe in the Middle Ages.

HIST 336 *Deviancy and Orthodoxy in the History of Mexico* (3 credits)

Prerequisite: See N.B. number (1). This course traces Mexican history from the colonial period to the modern era through an analysis of the various groups that state and society have defined as deviant, including barbarians, heretics, vagrants, lunatics, prostitutes, bandits, and insurgents. This course examines what the shifting preoccupations with and the persecutions of these groups reveal about the creation of political and social orthodoxy in Mexico across time.

HIST 337 *History of Early Medieval Europe* (3 credits)

Prerequisite: See N.B. number (1). A study of European society during the Early Middle Ages. The course will explore the fall of the Roman Empire in the West, the period of invasions, the conversions to Christianity and the development of the Western Latin Church, the rise of the Carolingians, the Viking raids, and the structures of society and politics.

HIST 338 *History of Later Medieval Europe* (3 credits)

Prerequisite: See N.B. number (1). A study of European society during the Later Middle Ages. The course will explore the ramifications of the revival of urban and commercial life, the development of national monarchies in France, England, and Spain, the varying fortunes of the Holy Roman Empire, the rise and fall of papacy, the problem of dissent in a theoretically unified society, and the effects of economic chaos and epidemics in the age of the Black Death.

HIST 340 *Early Modern Britain* (3 credits)

Prerequisite: See N.B. number (1). This course surveys the connected histories of England, Scotland, Ireland, and Wales between the 15th and early-18th centuries. Attention is paid to political, social, and cultural developments, as well as to commercial and colonial expansion beyond Europe.

HIST 341 *History of Britain Since 1714* (3 credits)

Prerequisite: See N.B. number (1). This course is a survey of the political, economic, and social development of Britain since the Stuart Era.

HIST 342 *Political and Social Ideas in Early Modern Britain* (3 credits)

Prerequisite: See N.B. number (1). This course traces the history of political and social thought in England, Ireland, Scotland, and the British Atlantic from ca. 1500 to ca. 1800. Looking at both classic and lesser-known primary texts and drawing on recent work in intellectual history, it pays special attention to how changing ideas about politics, economy, society, and history reflected both long-term developments and short-term crises in state-formation, imperial expansion, commercialization, the politics of religion, and new approaches to science.

HIST 345 *Postwar Japanese History* (3 credits)

Prerequisite: See N.B. number (1). This course examines Japan since the end of World War II. While tracing Japan's rise to the status of an economic power, this course focuses primarily on social and cultural history.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 346 *Sexuality in History* (3 credits)

Prerequisite: See N.B. number (1). This course looks at the topic of human sexuality taking a broad view, both in time (from the Ancient world to the 20th century) and space (featuring Asia and Africa as well as the Western world). Rather than surveying the impossibly large canvas of sex throughout world history, this course looks at a number of particular topics (e.g. marital sexuality, same-sex relationships, sexual violence) in different cultures.

HIST 347 *Gender and Sexuality in South Asia* (3 credits)

Prerequisite: See N.B. number (1). This course surveys the history of gender and sexuality in South Asia (India, Pakistan, and Bangladesh) from 1500 to the present, beginning in the Mughal period and concluding with an investigation of the post-colonial experience. Topics may include masculinity at the Mughal court, the European woman's imperial "burden," the regulation of sexuality in the Indian anti-colonial movement, the queer experience, identity formation in diaspora, and gender and religious fundamentalism.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 348 *History of Violence: Middle East 1798 – Present* (3 credits)

Prerequisite: See N.B. number (1). This course examines the multiple facets of violence in Middle Eastern historical contexts. The objective is to develop a critical approach for thinking about the nature of violence by using a historical perspective to complicate commonplace oppositions between its legitimate and illegitimate forms or its intelligibility and unintelligibility. Students explore the differences among state-sanctioned violence, resistance movements, and terrorism.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 350 *Medieval England* (3 credits)

Prerequisite: See N.B. number (1). This course examines the history of England between the Norman Conquest in 1066 and 1500. Topics include the political, social, and cultural impact of the Norman Conquest; Jews and the expulsion of 1290; knights and peasants; the Peasant's Revolt of 1381; crime and the Robin Hood legends; heresy and popular religion; urban culture and guilds.

HIST 352 *German History in the 20th Century* (3 credits)

Prerequisite: See N.B. number (1). This course studies the ideological, cultural, political, and socio-economic development of Germany from the First World War to the present.

HIST 353 *Colonial America and the Atlantic World* (3 credits)

Prerequisite: See N.B. number (1). This course explores the economic, political, and cultural history of the Atlantic world as a context for understanding developments in 17th- and 18th-century North America, including Native-European relations, migrations, religious controversies, slavery, revolts and independence movements.

HIST 354 *Revolutionary America* (3 credits)

Prerequisite: See N.B. number (1). This course examines themes and issues in the revolutionary and early national periods of American history.

HIST 355 *United States in the 19th Century, 1815–1850* (3 credits)

Prerequisite: See N.B. number (1). A study of American political, social, and economic life from the end of the War of 1812 to about 1850 — the intensification of sectionalism. Topics include geographic expansion and the beginnings of industrialization, the characteristics of southern slave society, and the rise of a system of political parties during the age of Jackson.

HIST 356 *United States in the 19th Century: The Era of the Civil War* (3 credits)

Prerequisite: See N.B. number (1). A study of American political, social, and economic life before and after the Civil War, from about 1850 to 1890. Topics include sectionalism and the breakdown of parties during the 1850s, the tasks of Reconstruction after the war, the New South, and the problems of a maturing industrial society.

HIST 357 *Foreign Relations of the United States to 1945* (3 credits)

Prerequisite: See N.B. number (1). This course provides an analysis of United States foreign policy from the American Revolution to the conclusion of the Second World War, emphasizing the domestic debate over foreign policy, national security, and economic development; commercial and territorial expansion; and the dynamics of Canadian-American relations.

HIST 358 *Foreign Relations of the United States, 1945 to the Present* (3 credits)

Prerequisite: See N.B. number (1). This is an historical investigation of United States foreign policy from the end of the Second World War to the present, emphasizing the United States' responses to the challenge of revolutions in Asia, Africa, Europe and Latin America, American conceptions of a new world order, the rise of the multinational corporation, globalization, terrorism, humanitarian intervention, and developments in Canadian-American relations.

HIST 359 *(also listed as SOCI 366)****The History and Sociology of Genocide to 1945*** (3 credits)

Prerequisite: See N.B. number (1). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that have led to genocide up to 1945.

NOTE: Students who have received credit for SOCI 366 may not take this course for credit.

HIST 360 *(also listed as SOCI 367)****The History and Sociology of Genocide from 1945 to the Present*** (3 credits)

Prerequisite: See N.B. number (1). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that led to genocide from 1945 to the present.

NOTE: Students who have received credit for SOCI 367 may not take this course for credit.

HIST 362 *Traditional China* (3 credits)

Prerequisite: See N.B. number (1). This course examines Chinese history from its earliest emergence to the Ming dynasty in the mid-17th century. Emphasis is placed on China's political, intellectual, and cultural heritage.

HIST 363 *Africa in the 20th Century* (3 credits)

Prerequisite: See N.B. number (1). This course examines 20th-century African history. Beginning with the colonial conquests, the course traces the processes of social, cultural, and economic change that have shaped Africans' experience of colonial domination and postcolonial statehood. Emphasis is placed on the ways in which historical change has been interpreted in African cultural production.

HIST 364 *Modern South Asia* (3 credits)

Prerequisite: See N.B. number (1). British conquest established nearly two centuries of colonial rule over the world's oldest civilization. This course examines the nature of imperial control, the resistance of traditional leaders, European intellectual imperialism, Indian cultural and religious revivalism, and modern nationalism. Special attention is paid to M.K. Gandhi and Gandhism as well as to Muslim separatism and the Pakistan movement.

HIST 366 *Early Modern China* (3 credits)

Prerequisite: See N.B. number (1). This course examines Chinese history during the Qing dynasty (1644-1912), with emphasis on political, social, diplomatic, and intellectual issues.

HIST 367 *Modern China* (3 credits)

Prerequisite: See N.B. number (1). This course examines China's history since the fall of the Qing dynasty in 1912, with particular emphasis on the Nationalist and Communist revolutionary movements and on China's transformation since the establishment of the People's Republic of China in 1949.

HIST 368 *African Popular Culture* (3 credits)

Prerequisite: See N.B. number (1). This course explores the varied terrain of African popular culture in the 19th and 20th centuries. The materials examined in this course range broadly, including not only scholarly work, but also fiction, film, music, and images that provide entry points into the ways African artists, youth, officials, freedom fighters, market women, bachelors, gangsters, and others have engaged culturally with the world around them.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 369 *Middle East: Empire, Gender, and Sexuality in Modern Times* (3 credits)

Prerequisite: See N.B. number (1). This course examines the historical formation and intersection of three distinct phenomena: empire, gender, and sexuality. From the everyday practices of family life to the form of politics and the balance of geo-strategic relations, the 19th and 20th centuries witnessed a radical transformation of human organization within the Middle East and globally. Topics may include imperialism, state formation, nationalism, Orientalism, feminism, and Islam.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 370 *Japanese Popular Culture* (3 credits)

Prerequisite: See N.B. number (1). This course traces the history of Japanese popular culture from the 1600s to the present, with emphasis on the last 50 years. The major focus is on the evolution of Japanese popular media such as films, anime, and manga. Other themes such as youth culture, fashion, and the spread of Japanese popular culture outside of the country's borders are explored. No background knowledge or Japanese language skills are required.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 371 *History of the Russian Revolutionary Movement, 1825-1922* (3 credits)

Prerequisite: See N.B. number (1). This course traces the evolution of the Russian revolutionary movement from the Decembrist Revolt (1825) to the Bolshevik consolidation of power (1922). Emphasis is placed on the development of Russian conceptions of socialism, Marxism, and anarchism; the roles undertaken by women in various revolutionary groups; and the Russian contribution to the development of modern terrorism.

HIST 372 *Latin American History Via the Novel* (3 credits)

Prerequisite: See N.B. number (1). This course examines modern Latin American history and its representation by comparing "fictional" and "factual" depictions of key issues and significant events including economic imperialism, political revolution, and race relations. Texts such as Gabriel García Márquez's literary masterpiece *One Hundred Years of Solitude* are used.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 373 *The Pacific War* (3 credits)

Prerequisite: See N.B. number (1). This course explores the history of the Pacific War, from its origins in the expansion of the Japanese empire to the atomic bombings, Japan's surrender, and the shaping of postwar Asia. While covering battles, strategy and tactics, and the weapons of war, the course also looks at diverse themes such as home fronts, propaganda, and how the war has been remembered and represented since 1945.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 374 *Egypt and the World Since 1798* (3 credits)

Prerequisite: See N.B. number (1). This course explores the social, cultural, and political histories of Egypt between the Napoleonic conquest and the present. Special attention is paid to the formation of Egyptian national identity in a post-Ottoman international context.

HIST 376 *The Caribbean and the Atlantic World* (3 credits)

Prerequisite: See N.B. number (1). This course covers the period from post-Columbian contact to the late-19th century. Themes include the link between sugar and slavery; the slave trade and the emergence of plantation-based colonialism; racialized social and economic structures; slave resistance; the politics of abolition; alternative labour forms; and the rise of political movements.

HIST 377 *History of Russia, 1694-1917* (3 credits)

Prerequisite: See N.B. number (1). This course traces Russian history from the era of Peter the Great to the Bolshevik Revolution. Emphasis is placed on long-term trends that continue to affect Russia today such as political liberty, economic development, warfare and foreign affairs, and gender relations.

HIST 378 *History of the Soviet Union* (3 credits)

Prerequisite: See N.B. number (1). This course examines the main economic, social, and political developments of the history of the Soviet Union from its creation in 1917 to its collapse in 1991. Particular attention is paid to the Stalin era, the impact of World War II, and the Cold War.

HIST 379 *History through Visual Media and Material Culture* (3 credits)

Prerequisite: See N.B. number (1). Public encounters with history are increasingly mediated by television, film, the Internet, and museological experiences. This course explores the relationship between the public and the past by examining issues in the production, distribution, and reception of history via these new and changing technologies.

HIST 380 *History and Digital Media* (3 credits)

Prerequisite: See N.B. number (1). This course offers an introduction to the changes that new media and technologies are bringing to historical research, writing, presentation, and teaching of the past. The course begins with an overview of the history of the Internet and digital media, and then examines historical work on a variety of subjects — by scholars, teachers, archivists, museum curators, and popular historians — published on the web. Historical and critical readings provide the basis for the hands-on section of the course in which students develop pilot online history projects.

NOTE: Students who have received credit for this course under a HIST 387 number may not take this course for credit.

HIST 381 *History and Public Policy* (3 credits)

Prerequisite: See N.B. number (1). This course examines the uses of history and the role of the historian in the political, legal, and social arenas, focusing on cases in which the past has underwritten social movements or mediated public controversies. Topics may include professional work with government and non-governmental organizations, expert analyses and testimony before tribunals and truth commissions in human rights cases, Native land claims, reparations, restorative justice, and the repatriation of cultural artifacts.

HIST 382 *Age of Enlightenment* (3 credits)

Prerequisite: See N.B. number (1). This course surveys the intellectual and cultural history of Europe and the Atlantic World from the later 17th century through the 18th century.

HIST 383 *Age of Revolution* (3 credits)

Prerequisite: See N.B. number (1). This course focuses on the French political and English industrial revolutions and their consequences throughout Europe. Colonialism, slavery, and the Atlantic revolutions in the Americas are considered to the extent that they contributed to, or were influenced by, the revolutions in Europe.

HIST 384 *Age of Industrialization and Nationalism 1848-1914* (3 credits)

Prerequisite: See N.B. number (1). A study of the transformation of European society, economy, and politics in the years between the upheavals of the mid-19th century and the collapse of the traditional order in World War I.

HIST 385 *Age of Dictators: Europe, 1914-1945* (3 credits)

Prerequisite: See N.B. number (1). A study of the internal development and external relations of the nations of Europe from the Great War to the end of World War II. The course examines this chaotic age primarily through an investigation of the revolutionary and reactionary upheavals that kept Europe socially, politically, and economically unbalanced for 30 years.

HIST 386 *Contemporary Europe: 1945 to the Present* (3 credits)

Prerequisite: See N.B. number (1). A study of the internal development and external relations of the nations of Europe from the collapse of Nazi Germany to the present. The course concentrates on the divisions between East and West, the economic recovery of Europe and the effects of the energy crisis on social, economic, and political life throughout Europe.

HIST 387 *Selected Topics in Public History* (3 credits)

Prerequisite: See N.B. number (1). Specific topics for this course, and relevant prerequisites, will be stated in the Undergraduate Class Schedule.

HIST 388 *Telling Stories: Oral History, Memoryscapes and Digital Storytelling* (3 credits)

Prerequisite: See N.B. number (1). This course is an introduction to oral history theory, ethics, and practice, and surveys the many oral history projects underway in Montreal and around the globe.

HIST 389 *Ethnography: Doing Micro-History of the Present* (3 credits)

Prerequisite: See N.B. number (1). This course introduces basic tools of ethnographic research and documenting using both traditional and new media, with attention to ethical, political, interpersonal, and aesthetic issues.

HIST 391 *Independent Study Tutorial in History* (3 credits)

Prerequisite: See N.B. number (1). This course permits individual study, with a selected faculty member, in a specialized area not available among regular 300-level classes.

HIST 392 *France 1871 to the Present* (3 credits)

Prerequisite: See N.B. number (1). This course introduces students to the history of France from the Commune of 1871 to the Fifth Republic. This course deals with such issues as the Dreyfus Affair, the legacy of two World Wars in French history, the Vichy regime, collaboration and French fascism, the May events of 1968, and so forth. Political, social, and intellectual developments will be discussed.

HIST 393 *Vietnam War* (3 credits)

Prerequisite: See N.B. number (1). The protracted Vietnamese conflict in both its French (1940-54) and American (1955-75) phases is analyzed using lectures, audio-visual materials, documents, and soldiers' accounts. Vietnam's historical evolution and colonial experience are briefly discussed as essential to understanding the war as a military, political, and cultural struggle.

HIST 394 *Food in History* (3 credits)

Prerequisite: See N.B. number (1). This course considers the economic, political, and cultural changes in food production, diets and cuisines from 1700 to the present from a global, comparative perspective. Lectures, primary and secondary source readings, films, research and hands-on activities explore diverse topics such as hunting and gathering; cooking traditions and innovations; cultural and ethical dimensions of eating and fasting; agriculture and food markets; the politics of famine; factory farms, industrial processing, and nutritional science; the emergence of the restaurant, the supermarket, fast food; and the globalization of modern diets.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 395 *Environmental History* (3 credits)

Prerequisite: See N.B. number (1). This course surveys major themes and problems in global environmental history from the last ice age to the present, but focusing primarily on Europe, Africa, Oceania, and the Americas since 1500. Topics include the history of ideas about nature; climate change; the Columbian Exchange; the environmental impact of science, technology, population growth, and urbanization; the politics of conservation; and environmentalism.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

HIST 396 *The United States Since 1945* (3 credits)

Prerequisite: See N.B. number (1). The immediate historical background of today's America is the subject matter of this course. Major themes include civil rights, the rise of modern feminism, and economic change.

HIST 397 *History and Sound* (3 credits)

Prerequisite: See N.B. number (1). This course examines sound as a historical subject and a medium for understanding the past. Emphasizing aural rather than visual sources, it addresses a variety of topics including the history of aural art forms such as music and radio; sound recording and transmission technologies; commercial uses of sound; architectural acoustics; and the evolution of soundscapes. The course may include training in the production of radio documentaries, urban sound walks, and audio podcasts.

HIST 398 *Selected Topics in History* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

HIST 402 *The Philosophy and Practice of History* (3 credits)

Prerequisite: Approved honours standing in History, or permission of the Department. This course examines problems in the philosophy and practice of history. Particular attention is given to contemporary debates about history as a distinctive mode of understanding and explanation. This course is required of all honours students.

HIST 403 *Methodology and History* (3 credits)

Prerequisite: Approved honours standing in History, or permission of the Department. This course examines the variety of sources, methods, and modes of analysis used in the research and writing of history. It addresses both theoretical and practical aspects of method. This course is required of all honours students.

HIST 412 *Advanced Study in Canadian History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Canada. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 437 *Advanced Study in European History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Europe. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 452 *Advanced Study in American History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of the United States. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 457 *Advanced Study in Latin American and Caribbean History* (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in Latin American and/or Caribbean history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 462 Advanced Study in Asian History (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in Asian history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 467 Advanced Study in Middle Eastern History (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in Middle Eastern history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 471 Advanced Study in African History (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of Africa. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 475 Advanced Study in the History of Gender and Sexuality (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in the history of gender and sexuality. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 477 Advanced Study in the History of Human Rights and Justice (3 credits)

Prerequisite: See N.B. number (2). This advanced seminar focuses on a selected topic in the history of human rights and justice. The emphasis is on encouraging students to conduct historical investigation independently, under a professor's supervision. The specific content may vary from year to year.

HIST 479 Advanced Study in Women's History (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in women's history. The emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 481 Advanced Study in Public History (3 credits)

Prerequisite: See N.B. number (2). Advanced seminar in a selected topic in public history. In addition to weekly discussions of relevant readings, the emphasis is on encouraging students to conduct historical investigation on their own, under a professor's guidance. The specific content varies from year to year depending on the instructor.

HIST 485 Public History Workshop (3 credits)

Prerequisite: See N.B. number (2); HIST 306. This course offers students the opportunity to conceive, plan, and carry out a project that presents a historical subject to the public. Students receive training in the public presentation of the past through several media and to a variety of audiences, and are encouraged to involve relevant parties outside the academy in the development of their project.

HIST 486 Public History Internship (3 credits)

Prerequisite: See N.B. number (2); HIST 306. This internship in public history is designed to allow students to test and hone their skills in a non-academic situation. Placements will be arranged by the faculty member responsible for the course and may be drawn from various potential employment sectors: public, non-profit, and private. Students, in consultation with the employer and the faculty advisor, are expected to fully participate in the defining of their internships. Students work according to a detailed job description and devote a minimum of 100 hours to the fieldwork component of the internship, keep a logbook describing their work activities, and submit a 20-25 page written report that summarizes and evaluates their work experience, positioning it in relation to broader academic questions in the field of public history. The employers participate in the assessment of the intern's work. Students may find it useful to have second-language proficiency for the purposes of this internship.

HIST 491 Individual Study Tutorial in History (3 credits)

Prerequisite: See N.B. number (2). This course permits an individual student to pursue advanced study, with a selected faculty member, in a specialized area not available among scheduled 400-level seminars.

HIST 492 Individual Study Tutorial in History (6 credits)

Prerequisite: See N.B. number (2). This course permits an individual student to pursue advanced study, with a selected faculty member, in a specialized area not available among scheduled 400-level seminars.

HIST 493 Honours Essay Tutorial (6 credits)

Prerequisite: See N.B. number (2). This course is open only to honours students in History. The student works with an individual faculty member in a particular area of history. Students are asked to produce a sustained piece of written work, not exceeding 40 pages in length, to be read by their advisor and at least one other member of the Department.

HIST 498 Advanced Topics in History (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.170

INTERDISCIPLINARY STUDIES

Administrator

JOANNE LOCKE, MLS McG.

For the complete list of faculty members, please consult the Department website.

Program Objectives

The Faculty of Arts and Science *Principles of Education* (§31.001) reinforce the value of broadening skills and experience beyond the boundaries of a single concentration. Interdisciplinary studies involves students in a range of thought, from scientific to humanistic. Courses are designed to illuminate principles, methods, and skills that cross disciplinary boundaries. These programs are intended for students whose interests do not conform to standard academic programs.

Program

INDIVIDUALLY STRUCTURED PROGRAMS — HONOURS OR SPECIALIZATION

Under the direction of the academic advisor, Faculty of Arts and Science

Admission

Opportunities are available in some departments and programs to follow an Individually Structured Specialization or Honours program. Students must apply to the Department that seems most relevant to the central aspect of their proposed program. Students in general must have demonstrated in their previous academic endeavours that they are capable of good standing ("B" level), but in exceptional cases a student may be admitted provisionally on the recommendation of the departmental undergraduate coordinator.

Formal entry to the ISP may occur only after completion of preparatory courses such as are required in Mature Entry and Extended Credit programs. Students wishing to follow an honours program must follow the Faculty procedures and regulations concerning admission to honours programs. (See Degree Requirements — Honours, §16.2.3 and 31.003.)

Students interested in pursuing an Individually Structured Program should contact the academic advisor, Faculty of Arts and Science, at 514-848-2424, ext. 2104.

Academic Regulations

The program will consist of not less than 60 credits. The courses chosen must be based on a departmental or program core, usually the major, but not less than 24 credits. Students will thus be required to complete necessary prerequisites, and general preparation courses such as Research Methods or Statistics, so that they may later follow a regular departmental program if they so desire.

A specialization student must maintain an average of "C+" in all specialization courses for purposes of continuation in the program from year to year, as well as for graduation. The minimum acceptable grade in any single specialization course is "C-."

The program of study must be worked out at the time of registration into the program. Admission to the program must be finalized before a student registers for the final 60 credits of the 90-credit portion of their degree. To allow for the non-availability of certain courses during certain sessions, allowable substitute courses must be listed in advance. Such substitution provisions will be necessary only in the case of specialized courses that are known not to be available on a session by session basis. The intention of this regulation is to assure that the program does not become an ad hoc mixture of courses without clearly rationalized academic coherence.

Students must prepare a careful, not necessarily long, statement of their goals indicating the specific reasons for their program choice. The rationale and the sequence of courses chosen must be approved by the two departmental program coordinators and the Associate Dean, Student Academic Services.

Programs

INTERDISCIPLINARY PROGRAMS — MINORS AND CERTIFICATES

Interdisciplinary minor programs usually consist of 24 or more credits and are to be combined with a department major, specialization, or honours. Interdisciplinary certificate programs normally consist of 30 credits and can be taken as independent programs. Interdisciplinary minor and certificate programs are listed below.

Credits	Title	Cal. Sec.
30	Certificate in Arts and Science	31.170
27	Minor in Interdisciplinary Studies in Sexuality	31.170

Program

CERTIFICATE IN ARTS AND SCIENCE

The Certificate in Arts and Science is a *non-degree program* that caters to students who qualify for undergraduate degree programs, but whose preference is to follow a shorter program of study. It may also be of interest to those who already have an undergraduate degree, but wish to update their knowledge or learn new skills.

The certificate requires successful completion of 30 credits. At least 24 of these credits must be chosen from courses offered by not more than three departments in the Faculty of Arts and Science.

Students may transfer into the certificate program up to 12 credits earned in an incomplete degree or certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Students who are admitted to the Certificate in Arts and Science, and who wish to continue in a degree program, should apply for admission to their program within the first 30 credits.

For advising assistance, students should contact Student Academic Services at 514-848-2424, ext. 2104.

Program

INTERDISCIPLINARY STUDIES IN SEXUALITY

The Minor in Interdisciplinary Studies in Sexuality, offered jointly by the Faculty of Fine Arts and the Faculty of Arts and Science, draws its curriculum from a variety of disciplines. Its purpose is to investigate empirical, theoretical, and creative aspects of sexuality.

Students interested in this program should contact Dr. Frances Shaver, Chair, Department of Sociology and Anthropology and Dr. Thomas Waugh, Professor, Mel Hoppenheim School of Cinema.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

27 Minor in Interdisciplinary Studies in Sexuality

- 12 Chosen from INTE 270/FFAR 290⁶, INTE 275/FASS 291³, INTE 392/FASS 392³; SOCI 375/ANTH 375^{3*}; FMST 392³
9 Elective credits on sexuality and sexual orientation chosen in consultation with the program coordinator from periodic topics courses and other suitable courses identified in a given year, and from the following regular courses:
AHSC 312³; ENGL 393³; FMST 391³; RELI 380³; WSDB 383³.
6 Chosen each year from courses in gender and women's studies in consultation with the program coordinator from a list of available offerings within departments of the Faculties of Arts and Science and Fine Arts.

**Prerequisites waived for students having completed six credits in the Minor in Interdisciplinary Studies in Sexuality.*

NOTE: For details on the course descriptions in the program listed above, please refer to the individual departmental course listings, and the INTE courses listed below.

Elective Groups

Elective Groups (formerly referred to as Clusters) are elective courses (15 to 18 credits) on a theme. Each group provides multidisciplinary and interdisciplinary course content.

Credits	Elective Groups
18	Canadian Studies (<i>Admission suspended for 2013-14</i>)
18	Health and Lifestyle
18	Hellenic Studies
18	Introduction to Life Sciences
18	Legal Studies
15	Marketing
18	Native Studies
18	Quebec Studies
18	Spanish America
18	Preparing for Success in the Workplace: Skills, Issues and Practices
18	The Planet Earth: Studies in the Environment
15	Understanding Western Myth
15	The Basics of Business

Course information on these Elective Groups is listed in the Undergraduate Class Schedule and on the University website at www.concordia.ca.

Interdisciplinary Courses

Many courses which have an interdisciplinary approach and are recommended and/or required by a variety of departments are listed in this section.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

INTE 270 (also listed as FFAR 290)

HIV/AIDS: Cultural, Social and Scientific Aspects of the Pandemic (6 credits)

An interdisciplinary survey of the major issues and challenges of the HIV pandemic. Such topics as the biology of the virus, therapeutic, clinical and epidemiological research developments, the social costs of sexual taboos and discrimination, and media and artistic representation by and of people with HIV are presented by faculty and visiting community experts. The epidemics in the Western hemisphere, Africa, Asia, and other regions are addressed. Learning is based on lectures, weekly tutorials, and community involvement.

NOTE: Students who have received credit for FFAR 290, FFAR 390, INTE 390, or for this topic under an FFAR 398, INTE 398, or SOCI 399 number, may not take this course for credit.

INTE 275 (also listed as FASS 291)

Introduction to Sexuality Research (3 credits)

An interdisciplinary survey of approaches to research in sexuality within the humanities, the arts, and the social sciences. Basic concepts of sexual identity, values, conduct, representation, and politics are addressed through such topical concerns as pornography and censorship, and through the perennial dialogue between biological and socio-cultural models of sexuality. The relation between theories and research methods is discussed in the context of classical and current research and creative activity. The syllabus reflects the varying specializations of the instructors from year to year.

NOTE: Students who have received credit for FASS 291, FASS 391, or INTE 391 may not take this course for credit.

INTE 290 Introduction to Computer Usage and Document Design (3 credits)

This course teaches students how to use the latest Windows operating system in combination with Microsoft Office applications and how to use these tools to produce attractive, efficient, and informative documents. Basic notions of word processing, document design, data organization, and presentation are explored. The course is based on a step-by-step learning process, whereby students acquire the tools that they need to accomplish a specific task. A minimum of 40 hours of laboratory work is required.

NOTE: Computer Science students, or students enrolled in Mathematics and Statistics programs, may not take this course for credit.

NOTE: Students who have received credit or exemption for DESC 200 may not take this course for credit.

INTE 291 Web Document Development (3 credits)

Prerequisite: INTE 290 or equivalent. This course introduces students to web document development in a networked PC environment. Students learn how to create web documents, scripts, and animation using a variety of web development, scripting, and animation tools. The course format is a mix of lectures, hands-on experience in the computer laboratory, and text. A minimum of 40 hours of laboratory work is required.

INTE 293 Computer Application Development (3 credits)

This course introduces students to the use of contemporary computer tools in scientific applications. It is designed for students with some familiarity with the fundamentals of computing who wish to use computers as tools for research within science disciplines. The format is largely self-instructional, using computer-based tutorial packages. A minimum of 40 hours of laboratory work is required.

INTE 296 Discover Statistics (3 credits)

This course introduces students to the basics of statistics and is aimed at mastering the elementary analytical concepts of the subject. Topics include descriptive statistics, correlation and regression analysis, experimental analysis (test procedures), probability (distribution and theory), hypothesis testing, and analysis of variance.

NOTE: Students who have received credit for this topic under an INTE 298 number may not take this course for credit.

NOTE: See §200.7 for equivalent statistics courses.

INTE 298 Special Topics (3 credits)

INTE 299 Special Topics (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

INTE 392 (also listed as FASS 392)

Queer Theory (3 credits)

Prerequisite: 30 credits. An interdisciplinary survey of the basic post-1970 theories of sexual minorities and diversity, in their historical and cultural contexts. Authors from Michel Foucault to Eve Kosofsky Sedgwick are introduced, as well as the work of artists and performers from Derek Jarman to k.d. lang. The syllabus reflects the varying specializations of the instructors from year to year.

NOTE: Students who have received credit for FASS 392 may not take this course for credit.

INTE 398 ***Special Topics*** (3 credits)

INTE 399 ***Special Topics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

INTE 498 ***Special Topics*** (3 credits)

INTE 499 ***Special Topics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.180 JOURNALISM

Faculty

Chair

LINDA KAY, MA C'dia., Associate Professor

Distinguished Professor Emeritus

ENN RAUDSEPP, PhD McG.

Professor

MIKE GASHER, PhD C'dia.

Associate Professors

BRIAN GABRIAL, PhD Minn.

DAVID SECKO, PhD Br.Col.

Assistant Professors

ANDREA HUNTER, PhD Qu.

LISA LYNCH, PhD Rutgers

JAMES McLEAN, PhD C'dia

Senior Lecturer

PETER DOWNIE, BA New Br.,

Lecturers

JACQUES GRENIER, BA Laval

CORINNE SMITH, MJ Car.

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Communication Studies and Journalism Building, Room: CJ 3.230

514-848-2424, ext. 2465

Email: sandy@alcor.concordia.ca

Department Objectives

Journalism studies are designed to help students become the intelligent and versatile reporters and writers upon which society depends for the exercise of its democratic functions. Above all, journalism is an intellectual activity with rigorous standards for gathering, processing, and disseminating information. To help students become knowledgeable and versatile reporters and writers, the Department of Journalism offers a professional education that combines theory and practice.

Writing and production workshops emphasize the practical, simulating the assignments of working journalists. Newsroom standards are universally applied. Complementing these courses are lectures and seminars which analyze the social and political contexts in which journalism is practised.

Admission and Graduation Requirements

Enrolment in the workshops in the Department of Journalism is limited and depends on the applicants' successful completion of the admission procedures outlined in the following paragraphs. All applicants should apply through the Concordia University Admissions Application Centre. Applicants must also submit a separate application to the Department by March 1 to make an appointment for a test of English proficiency. More information can be found at journalism.concordia.ca/undergraduateprograms. A student must achieve a final mark of "C" or better in the reporting workshops in order to proceed to the next level.

To graduate with a Major or Specialization in Journalism, a student must demonstrate a working knowledge of French. Tests of oral proficiency in French are administered by the Département d'études françaises on behalf of the Department of Journalism, which is responsible for the final evaluation of each student's competence.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

These programs are designed to prepare graduates for the English-language media.

A limited number of students who have been admitted to the Major in Journalism program may be allowed to register in the Science College, with a view to combining a basic understanding of science with a training in journalism.

60 BA Specialization in Journalism/Textual

Stage I

18 JOUR 201⁶, 202³, 205³, 221⁶

Stages II & III

15 JOUR 302³, 303³, 309³, 316³, 366³

9 JOUR 404³, 428³, 444³

6 Chosen from JOUR 402³, 420³, 435³, 436³, 437³, 442³, 450³, 451³, 460³, 463³, 498³

12 General-Knowledge Credits

Category 1: Politics and History

3 Chosen from HIST 205³; POLI 204³, 351³, 356³

Category 2: Society and Culture

3 Chosen from ENGL 233³; PHIL 201³, 210³; RELI 214³; SOCI 203³

Category 3: Economics

3 Chosen from ECON 201³, 203³, 252³

Category 4: Science

3 Chosen from BIOL 200³; CHEM 208³, 209³; INTE 296³

60 BA Specialization in Journalism/Audiovisual

Stage I

18 JOUR 201⁶, 202³, 205³, 221⁶

Stages II & III

15 JOUR 302³, 316³, 321³, 330³, 366³

9 JOUR 421³, 428³, 444³

6 Chosen from JOUR 402³, 420³, 432³, 435³, 436³, 437³, 442³, 450³, 451³, 460³, 463³, 498³

12 General-Knowledge Credits

Category 1: Politics and History

3 Chosen from HIST 205³; POLI 204³, 351³, 356³

Category 2: Society and Culture

3 Chosen from ENGL 233³; PHIL 201³, 210³; RELI 214³; SOCI 203³

Category 3: Economics

3 Chosen from ECON 201³, 203³, 252³

Category 4: Science

3 Chosen from BIOL 200³; CHEM 208³, 209³; INTE 296³

72 BA Specialization in Journalism/Multi-Platform

Stage I

18 JOUR 201⁶, 202³, 205³, 221⁶

Stage II

21 JOUR 302³, 303³, 309³, 316³, 321³, 330³, 366³

Stage III

12 JOUR 404³, 421³, 428³, 444³

9 Chosen from JOUR 402³, 420³, 432³, 435³, 436³, 437³, 442³, 450³, 451³, 460³, 463³, 498³

12 General-Knowledge Credits

Category 1: Politics and History

3 Chosen from HIST 205³; POLI 204³, 351³, 356³

Category 2: Society and Culture

3 Chosen from ENGL 233³; PHIL 201³, 210³; RELI 214³; SOCI 203³

Category 3: Economics

3 Chosen from ECON 201³, 203³, 252³

Category 4: Science

3 Chosen from BIOL 200³; CHEM 208³, 209³; INTE 296³

45 BA Major in Journalism

NOTE: To graduate with a Major in Journalism students are required to complete a minor or a major in another subject.

Stage I

- 18 JOUR 201⁶, 202³, 205³, 221⁶

Textual Option

Stage II

- 15 JOUR 302³, 303³, 309³, 316³, 366³

Stage III

- 9 JOUR 404³, 428³, 444³

- 3 Chosen from JOUR 402³, 420³, 435³, 436³, 437³, 442³, 450³, 451³, 460³, 463³, 498³

Audiovisual Option

Stage II

- 15 JOUR 302³, 316³, 321³, 330³, 366³

Stage III

- 9 JOUR 421³, 428³, 444³

- 3 Chosen from JOUR 402³, 420³, 432³, 435³, 436³, 437³, 442³, 450³, 451³, 460³, 463³, 498³
-

Courses

Written work in writing and reporting workshop courses is in English; please consult the Department.

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

JOUR 201 *Introduction to Journalism: Text* (6 credits)

Prerequisite: Enrolment in a Journalism program. This course lays the foundation for all subsequent reporting and writing courses. Students learn how to do library and online research, structure and conduct interviews, and write news and feature stories for print and online outlets. Emphasis is placed on reporting stories in the community. Practical out-of-class assignments use the city of Montreal as a laboratory.

JOUR 202 *Digital Tools for Journalists* (3 credits)

Prerequisite: Enrolment in a Journalism program. Students are introduced to a range of basic tools and concepts in multimedia journalism, from basic HTML and web design to the use of web 2.0 tools to author and publish video, audio, and still photography online.

JOUR 205 *Principles of Journalistic Thought and Practice* (3 credits)

This course provides a survey of the foundational ideas about journalism and its role in society, from the time of an emergent press to the present. It addresses received ideas about journalism's place in democratic society as well as current critical thought.

JOUR 210 *The Media in Quebec* (3 credits)

This course considers the current reality of the Quebec news media as they have been informed by the history of journalism in Quebec. The course situates the media in Quebec within broader philosophical and sociological currents informing the understanding of journalism as an institution. Some of the reading material for this course is in French.

NOTE: Students who have received credit for JOUR 305 may not take this course for credit.

JOUR 215 *Contemporary News Media* (3 credits)

This course introduces students to the increasingly complex structures of modern media, and considers them in the context of journalism ideals. It examines the organizations, practices and problems of news media, focusing on key functions in day-to-day activities. In any given year, it may explore in detail a particular development or problem in the news media.

JOUR 221 *Introduction to Journalism: Audiovisual* (6 credits)

Prerequisite: Enrolment in a Journalism program. This course introduces students to the fundamentals of news across audio and visual platforms (radio, television, and online journalism); focusing on research, story development, writing, recording and editing. It also introduces students to the historical development of radio and television in Canada.

NOTE: Students who have received credit for JOUR 200 or 203 may not take this course for credit.

JOUR 298 *Special Topics in Journalism* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

JOUR 302 *Research Methods for Journalism* (3 credits)

Prerequisite: JOUR 201, 221. This course introduces students to research methods with a particular focus on primary sources, such as official documents, legal and financial records, access-to-information requests, electronic databases, as well as in-depth interviews. These methods are treated as both sources of story ideas and as essential elements of good reporting.

JOUR 303 *Feature Writing* (3 credits)

Prerequisite: JOUR 201, 221. This course is designed to help students develop and enhance their writing abilities, preparing for the broadest range of journalistic feature writing, from brief colour stories and profiles to in-depth articles. It consolidates interview techniques and introduces a variety of writing approaches.

JOUR 309 *Copy-Editing and Layout* (3 credits)

Prerequisite: JOUR 201, 221. This course develops students' copy-editing skills and introduces them to the fundamentals of page layout. While the editing component of the course is designed primarily for students in textual journalism, the techniques employed are applicable to all media forms.

JOUR 316 *Law and Ethics in Journalism* (3 credits)

Prerequisite: JOUR 201, 221. This course looks at issues and practices in journalism within the contexts of law and ethics. It aims to provide students with an understanding of professional standards and legal norms, together with a strong foundation in ethical reasoning.

NOTE: Students who have received credit for JOUR 317 or COMS 453 may not take this course for credit.

JOUR 318 *Publication Workshop* (3 credits)

Prerequisite: JOUR 201. Students experiment, under supervision, with concepts and practical applications of computerized print media layout and design at an advanced level while creating publications in a variety of formats.

NOTE: Students who have received credit for JOUR 408 or for this topic under a JOUR 498 number may not take this course for credit.

JOUR 319 *Computer-Assisted Reporting* (3 credits)

Prerequisite: JOUR 201, or permission of the Department. Students develop advanced skills in computer-assisted reporting, working with a variety of software and data storage systems to research, analyze and publish their work. The goal is to equip students with the skills necessary to be successful journalists in the information age.

NOTE: Students who have received credit for JOUR 419 or for this topic under a JOUR 498 number may not take this course for credit.

JOUR 321 *Video Journalism* (3 credits)

Prerequisite: JOUR 201, 221. This workshop course advances videography skills introduced in JOUR 221. Students refine reporting, writing, recording and editing skills in a production context.

NOTE: Students who have received credit for JOUR 336 or 339 may not take this course for credit.

JOUR 330 *Radio Newsroom* (3 credits)

Prerequisite: JOUR 221. This course seeks to replicate the working conditions and journalistic expectations of a radio newsroom. Students assume various journalistic positions including assignment editor, reporter, and newsreader, working to deadline to produce a live radio newscast.

JOUR 336 *Introduction to Television* (3 credits)

Prerequisite: JOUR 221. This is a workshop course in the fundamentals of videography, where students learn the techniques of video recording and editing, as well as how to write effectively to complement images, and how to organize and perform field and post-production functions.

NOTE: Students who have received credit for JOUR 415 may not take this course for credit.

JOUR 339 *Intermediate Television Journalism* (3 credits)

Prerequisite: JOUR 336. This course is a continuation of JOUR 336. Students learn the various production methodologies used in putting together a weekly television news and current-affairs program, and work on perfecting editing skills using more sophisticated TV-editing software.

JOUR 343 *Broadcast Public Affairs* (3 credits)

Prerequisite: JOUR 201, or permission of the Department. This course focuses on the principles, practices, and issues in Canadian and American public affairs radio and television, with a comparative look at broadcasting around the world.

NOTE: Students who have received credit for COMS 340, 342 or 343 may not take this course for credit.

JOUR 366 *Photojournalism* (3 credits)

Prerequisite: JOUR 201, 221. This is a workshop in the fundamentals of photojournalism, where students learn how to apply the theory and aesthetics of news photography to telling stories through pictures. Using digital cameras and technology, students perform a variety of exercises and assignments to help them master the techniques used in planning, taking, and laying out news photographs.

NOTE: Students who have received credit for JOUR 466 may not take this course for credit.

JOUR 398 *Special Topics in Journalism* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

JOUR 400 Advanced Reporting (3 credits)

Prerequisite: JOUR 302 or 303. Students are introduced to several areas of specialist reporting including business and editorial writing, and to a variety of journalistic treatments.

NOTE: Students who have received credit for JOUR 401 may not take this course for credit.

JOUR 402 Specialist Reporting (3 credits)

Prerequisite: JOUR 302 and 303; or permission of the Department. This workshop course focuses on a specified topic area each term (identified in the Undergraduate Class Schedule). It introduces students to the "beat," the particular research, reporting, and analytical demands of the specialty topic and the institutions which form the basis of this reporting specialty.

JOUR 404 Magazine Writing (3 credits)

Prerequisite: JOUR 302, 303. This workshop is designed for those students who want to further develop a set of research and writing skills geared specifically to the magazine market. Students produce magazine articles of publishable quality and shape the stories to fit the needs of a particular magazine by studying the overall market in depth.

JOUR 420 Gender and Journalism (3 credits)

Prerequisite: 60 credits or permission of the Department. This course focuses on gender issues in journalism, ranging from the historical context to more contemporary material. It addresses the ways in which gender affects journalism as both a practice and an institution.

NOTE: Students who have received credit for JOUR 320 or for this topic under a JOUR 398 number may not take this course for credit.

JOUR 421 Advanced Television Journalism (3 credits)

Prerequisite: JOUR 321. This workshop focuses on how to produce a television news and current affairs program. Students produce a weekly television program and learn to work as part of a news team by performing all the functions behind and in front of the camera.

JOUR 428 Multi-Platform Journalism (3 credits)

Prerequisite: JOUR 202, 302. This course further explores the theory and practice of the authoring and online publication of text, audio, video and informational graphics. Working in groups, students create multimedia "packages" and work collectively to publish an online presentation of class work at the end of the term.

NOTE: Students who have received credit for this topic under a JOUR 498 number may not take this course for credit.

JOUR 432 Documentary Journalism (3 credits)

Prerequisite: JOUR 339. This course is for students who wish to explore long-form journalism in sound and pictures, in particular, the television current-affairs documentary. Through assignments, class discussions, and exposure to notable examples of the form, students learn the fundamentals of documentary production including story development and treatment, cinematographic style, interviewing, editing, and presentation.

JOUR 435 Alternative News Media (3 credits)

Prerequisite: 60 credits or permission of the Department. This course considers the alternative news organizations in a variety of media forms. It examines both historical and present-day examples in the context of an expanding and diversifying mediascape.

NOTE: Students who have received credit for this topic under a JOUR 298 number may not take this course for credit.

JOUR 436 Citizen Journalism (3 credits)

Prerequisite: 60 credits or permission of the Department. This course considers the challenges to mainstream journalism and addresses the particularities of citizen journalism, including its sourcing and presentation strategies, and organizational structures. Students learn how to apply basic technologies involved in citizen journalism.

NOTE: Students who have received credit for this topic under a JOUR 398 number may not take this course for credit.

JOUR 437 Turning Points in Journalism History (3 credits)

Prerequisite: JOUR 205. By concentrating on seminal moments reflected in a range of news media forms, this course examines technological, sociocultural, political, and historical trends that have contributed to journalism's development as a set of complex practices. Special attention is given to innovative journalists who have advanced the field.

NOTE: Students who have received credit for JOUR 332 may not take this course for credit.

JOUR 442 International Journalism (3 credits)

Prerequisite: 60 credits or permission of the Department. This course examines cross-cultural journalism practices as they pertain to both international news coverage and local reportage in a multicultural setting. The course asks students to apply basic theoretical concepts to concrete case studies of the news.

JOUR 444 Critical Approaches to Journalism (3 credits)

Prerequisite: 60 credits or permission of the Department. This course introduces students to a scholarly critique of journalism, both as a practice and as an institution. By interrogating specific readings, students are encouraged to consider the journalist as a cultural producer operating within overlapping social, political, and economic contexts.

JOUR 450 *Independent Study* (3 credits)

Prerequisite: 60 credits and enrolment in a Journalism program. Students who have demonstrated ability may, near the end of their program, undertake an independent study on a topic not otherwise covered by the program, under the direction of one or more faculty members.

JOUR 451 *Journalism Practicum* (3 credits)

Prerequisite: 60 credits and enrolment in a Journalism program. Students who have demonstrated ability, near the end of their program, undertake a practicum at a recognized media outlet, under the supervision of a senior journalist and with permission of the Department's undergraduate program director.

NOTE: Students who have received credit for JOUR 450 may take this course for credit.

JOUR 460 *Technical Writing and Business Communication* (3 credits)

Prerequisite: 60 credits or permission of the Department. This is a writing workshop in which students learn a range of writing styles and modes used by freelance journalists in technical writing and business communication. Among other assignments, students learn how to build up a press kit, including press releases, backgrounders, and fact sheets.

NOTE: Students who have received credit for this topic under a JOUR 498 number may not take this course for credit.

JOUR 463 *Literary Journalism* (3 credits)

Prerequisite: 60 credits or permission of the Department. This course explores the literary value of selected, seminal journalistic writings by examining the work of journalists, both past and present, as well as other non-fiction writers, including those in Canada, U.S., U.K., and elsewhere. Students will appreciate how literary styles and conventions can enhance journalistic practices.

JOUR 498 *Advanced Special Topics in Journalism* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.200

MATHEMATICS AND STATISTICS

Faculty

Chair

YOGENDRA P. CHAUBEY, PhD *Roch.*, Provost's Distinction, Professor

Associate Chair

HARALD W. PROPPE, PhD *McG.*, Professor

Professors

SYED T. ALI, PhD *Roch.*

ABRAHAM J. BOYARSKY, PhD *McG.*

CHRISTOPHER J. CUMMINS, PhD *S'ton.*

CHANTAL DAVID, PhD *McG.*

JOSÉ GARRIDO, PhD *Wat.*

PAWEŁ GORA, PhD DSc *Warsaw*

RICHARD L. HALL, PhD *Lond.*

JOHN HARNAD, DPhil *Oxf.*, Provost's Distinction

ADRIAN IOVITA, PhD *Boston*

HERSHY KISILEVSKY, PhD *M.I.T.*

DMITRY KOROTKIN, PhD *Steklov Math. Inst.*

ROBERT RAPHAEL, PhD *McG.*

ALEXANDER SHNIRELMAN, PhD *Moscow State*

ANNA SIERPINSKA, PhD *Krakow*

RONALD J. STERN, PhD *Northwestern*

FRED E. SZABO, PhD *McG.*

FRANCISCO THAINE, PhD *IMPA, Rio de Janeiro*

Associate Professors

MARCO BERTOLA, PhD *Sissa*

JOSEF BRODY, PhD *Car.*

G. ELIE COHEN, PhD *McG.*

GALIA DAFNI, PhD *Prin.*

PATRICE GAILLARDETZ, PhD *Tor.*

CODY HYNDMAN, PhD *Wat.*

LEA POPOVIC, PhD *Calif.(Berkeley)*

ARUSHARKA SEN, PhD *I.Stat.I.*

ALINA STANCU, PhD *Roch.*

WEI SUN, PhD *Chinese Acad.Sci.*

XIAOWEN ZHOU, PhD *Calif.(Berkeley)*

Assistant Professors

NADIA HARDY, PhD *C'dia.*

ALEXEY KOKOTOV, PhD *Steklov Math. Inst.*

MÉLINA MAILHOT, PhD *Laval*

Lecturers

ARMEN ATOYAN, PhD *Moscow Eng-Physics Inst.*

EWA DUMA, PhD *Warsaw*

DEBARAJ SEN, PhD *C'dia.*

Affiliate Professors

JOHN DENTON, PhD *Harv.*

ANDREW GRANVILLE, PhD *Qu.*

HENRY HUNG, PhD *McG.*

BENOIT LAROSE, PhD *Montr.*

LENNAERT VAN VEEN, PhD *Utrecht*

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
J.W. McConnell Building, Room: LB 901
514-848-2424, ext. 3223

Department Objectives

The Department of Mathematics and Statistics provides the general mathematical culture necessary for training those who will either be using the tools of mathematics or statistics in their work or who will become future mathematicians or statisticians. For students who are contemplating graduate work in mathematics or statistics, the Department has leading researchers in the fields of actuarial mathematics, applied probability, computational algebra, differential geometry, dynamical systems, mathematical physics, mathematics education, number theory and statistics.

In addition to its co-op program, alternating work and academic terms, the Department offers a program in Actuarial Mathematics and prepares students for the associateship examinations of the Society of Actuaries and the Casualty Actuarial Society.

The Department also provides instruction at the remedial and introductory levels to enable students who have been out of school for some time to re-enter the academic stream; and offers special courses for teachers of mathematics who wish to keep abreast of recent ideas and applications.

Programs

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).

A student wishing to follow a program in the Department of Mathematics and Statistics but not meeting the entrance requirements should consult with one of the Department's academic advisors.

By careful choice of electives, students can select whether the emphasis of the program will be in the area of Actuarial Mathematics, Mathematical and Computational Finance, Pure and Applied Mathematics, or Statistics through specialization/honours programs in the respective areas.

The enrolment in specialization/honours will be on a selective basis, whereas the major will be open to all students. However, students with less than a 70% average in Cegep Mathematics courses will be required to take a six-credit "transition" Calculus and Linear Algebra course (MAST 214) upon entry into the MATH/STAT Major. The course will not count for credits in the major. Students in a Mathematics and Statistics program may not take any of the following courses for credit: EMAT 212, 232, 252, 271. Students wishing to take other Engineering Mathematics courses for credit must obtain prior approval of the Department.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

66 BA or BSc Honours in Actuarial Mathematics

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
3 Chosen from ACTU 286¹, 386², 486²; MAST 232³, 332³; STAT 287¹, 388²
6 Honours project ACTU 493

60 BA or BSc Specialization in Actuarial Mathematics

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
3 Chosen from ACTU 286¹, 386², 486²; MAST 232³, 332³; STAT 287¹, 388²

90 BA or BSc Specialization in Actuarial Mathematics/Finance

- 27 MATH 251³, 252³, 264³, 265³, 354³, 364³, 365³; STAT 249³, 250³
30 ACTU 256³, 257³, 357³, 457³, 458³, 459³; STAT 349³, 360³, 460³, 461³
3 Chosen from ACTU 286¹, 386², 486²; STAT 287¹
21 ECON 201³, 203³; COMM 220³, 308³; ACCO 230³; FINA 385³, 395³
9 Chosen from 400-level Finance courses

90 BA or BSc Specialization in Mathematical and Computational Finance

- 6 MACF 401³, 402³
24 MATH 251³, 252³, 264³, 265³, 364³, 365³, 370³, 473³
18 STAT 249³, 250³, 349³, 360³, 460³, 461³
12 Chosen from MACF 491³, 492³; MATH 361^{3†}, 464³, 467³, 478³, 479³; STAT 449³, 450³, 452³
24 ACCO 230³; COMM 220³, 308³; ECON 201³, 203³; FINA 385³, 395³, 412³

- 3 Chosen from FINA 411³, 413³, 455^{3*}, 465³
 3 COMP 218³ or 248³

¹NOTE: Students electing to include MATH 361 in their program are normally expected to plan to take MATH 478 and FINA 411 in order to focus on Portfolio Management and Optimization as an area of the Mathematical and Computational Finance discipline.

²NOTE: FINA 455 may only be included with prior departmental approval. The topic must be related to an area of the Mathematical and Computational Finance discipline.

66 BA or BSc Honours in Pure and Applied Mathematics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
 15 MAST 232³; MATH 366³, 369³, 370³, 464³
 9 Chosen from MATH 467³, 470³, 471³, 473³, 474³, 475³, 478³, 479³; STAT 449³, 452³
 6 MATH/STAT chosen with prior departmental approval
 6 Honours project MATH 496

60 BA or BSc Specialization in Pure and Applied Mathematics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
 15 MAST 232³; MATH 366³, 369³, 370³, 464³
 9 Chosen from MATH 467³, 470³, 471³, 473³, 474³, 475³, 478³, 479³; STAT 449³, 452³
 6 MATH/STAT chosen with prior departmental approval

66 BA or BSc Honours in Statistics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
 12 MATH 370³; STAT 349³, 360³, 450³
 6 Chosen from MATH 464³, 467³, 478³, 479³; STAT 449³, 452³, 460³, 461³, 480³ or DESC 445³
 3 Chosen from MAST 232³, 333^{3*}; MATH 366³; STAT 287¹, 388²
 9 MATH/STAT chosen with prior departmental approval
 6 Honours project STAT 499

60 BA or BSc Specialization in Statistics

- 30 MATH 251³, 252³, 264³, 265³, 354³, 361³, 364³, 365³; STAT 249³, 250³
 12 MATH 370³; STAT 349³, 360³, 450³
 6 Chosen from MATH 464³, 467³, 478³, 479³; STAT 449³, 452³, 460³, 461³, 480³ or DESC 445³
 3 Chosen from MAST 232³, 333^{3*}; MATH 366³; STAT 287¹, 388²
 9 MATH/STAT chosen with prior departmental approval

42 BA or BSc Major in Mathematics and Statistics

- 33 COMP 218³ or 248³; MAST 217³ or COMP 232³; MAST 218³, 219³, 221^{3*}, 224³, 232³, 234³, 235³, 331³, 333^{3*}
 3 Chosen from MAST 330³, 332³
 3 Chosen from MAST 223^{3*}, 334³, 335³, 397³, 398³
 3 Chosen with prior departmental approval*

*NOTE: This category may also include any other courses in the ACTU/MATH/STAT discipline, or certain courses in COMP or PHYS. It is not intended to include courses unrelated to the mathematical disciplines.

78 BA or BSc Joint Major in Mathematics and Statistics and Computer Applications

Mathematics and Statistics Component

- 42 COMP 248³; MAST 217³ or COMP 232³; MAST 218³, 219³, 221³ or COMP 233³; MAST 224³, 232³, 234³, 235³, 331³, 332³ or COMP 367³; MAST 333^{3*}, 334³ or COMP 361³; MATH 339³
Computer Science Component
 (see §71.85)

- 32 COMP 228³, 249³, 335³, 346⁴, 348³, 352³, 354⁴, 465³; ENCS 282³, 393³
 4 Chosen from COMP courses with numbers 325 or higher; SOEN 287³, 321³, 387³, 422³, 423⁴, 487⁴

NOTE: The Faculty of Arts and Science and the Faculty of Engineering and Computer Science have created a program of study which combines a comprehensive education in computer science and mathematics. This program resides in both Faculties. In the Faculty of Engineering and Computer Science, it is offered under the aegis of the Bachelor of/Baccalaureate in Computer Science, Computer Applications Option. According to their preferences and aspirations, students may apply either for a Bachelor of/Baccalaureate in Science program, or Bachelor of/Baccalaureate in Arts program or a Bachelor of/Baccalaureate in Computer Science program. The Computer Science program is described in §71.85.

24 Minor in Mathematics and Statistics

- 18 MAST 217³, 218³, 219³, 221^{3*}, 224³, 333^{3*}
 6 MATH/STAT chosen with prior departmental approval from MAST 223^{3*}, 232³, 234³, 235³, 330³, 331³, 332³, 334³, 335³, 397³, 398³

*NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Students taking a double Major or a Minor in Mathematics and Statistics and whose other program requires statistics courses should consult the Mathematics and Statistics undergraduate program advisor.

Mathematics and Statistics Co-operative Program

Director
SYED T. ALI, Professor

The Mathematics and Statistics co-operative program is offered to students who are enrolled in the BA or BSc honours or specialization programs. Students interested in applying for the Mathematics and Statistics co-op should refer to §24 where a full description of the admission requirements is provided.

Academic content is identical to that of the regular program, but six study terms are interspersed with four work terms.

Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format.

Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Mathematics and Statistics co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

Actuarial Mathematics

ACTU 256 Mathematics of Finance (3 credits)

Prerequisite: MATH 264 previously or concurrently; and permission of the Department. Measurement of interest; annuities and perpetuities; amortization and sinking funds; rates of return; bonds and related securities; life insurance.

NOTE: Students who have received credit for MATH 326 may not take this course for credit.

NOTE: Only three credits will be awarded from ACTU 256; MAST 335.

ACTU 257 Actuarial Mathematics I (3 credits)

Prerequisite: ACTU 256. Measurement of mortality; pure endowments; life insurance; net single premiums; life annuities; net annual premiums; special topics.

NOTE: Students who have received credit for MATH 327 may not take this course for credit.

ACTU 286 Actuarial Mathematics Lab I (1 credit)

This lab features problem-solving sessions for the professional examination on financial mathematics of the Society of Actuaries and the Casualty Actuarial Society.

NOTE: Students who have received credit for MATH 229 may not take this course for credit.

ACTU 357 Actuarial Mathematics II (3 credits)

Prerequisite: ACTU 257. Net level premium reserves; multiple life functions; multiple decrements, the expense factor; special topics.

NOTE: Students who have received credit for MATH 427 may not take this course for credit.

ACTU 386 Actuarial Mathematics Lab II (2 credits)

This lab will feature the use of programming languages and software applications.

NOTE: Students who have received credit for MATH 232 may not take this course for credit.

ACTU 456 Pension Mathematics (3 credits)

Prerequisite: ACTU 357. Valuation methods; gains and losses; dynamic control; special topics.

ACTU 457 Risk Theory (3 credits)

Prerequisite: ACTU 257. Applications of contingency theory in health insurance, individual and collective risk theory, ruin theory.

NOTE: Students who have received credit for MATH 428 may not take this course for credit.

ACTU 458 Credibility Theory (3 credits)

Prerequisite: ACTU 457; STAT 349 previously or concurrently. Credibility approach to inference for heterogeneous data; classical, regression and Bayesian models; illustrations with insurance data.

ACTU 459 Loss Distributions (3 credits)

Prerequisite: ACTU 457; STAT 360. Probability model fitting to loss data; estimation and testing under variety of procedures and sampling designs.

ACTU 486 Actuarial Mathematics Lab III (2 credits)

This lab will be a workshop designed to prepare students for the Actuarial Models examination of the Society of Actuaries and the Casualty Actuarial Society.

NOTE: Students who have received credit for MATH 429 may not take this course for credit.

- ACTU 491** *Topics in Actuarial Mathematics* (3 credits)
ACTU 492 *Reading Course in Actuarial Mathematics* (3 credits)
ACTU 493 *Honours Project in Actuarial Mathematics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Mathematical and Computational Finance

- MACF 401** *Mathematical and Computational Finance I* (3 credits)

Prerequisite: FINA 385; MATH 265; STAT 349 previously or concurrently. This course is a rigorous introduction to the theory of mathematical and computational finance. Multi-period binomial model; state prices; change of measure; stopping times; European and American derivative securities; interest-rate models; interest-rate derivatives; hedging; convergence to the Black-Scholes model.

- MACF 402** *Mathematical and Computational Finance II* (3 credits)

Prerequisite: MACF 401; MATH 473; STAT 461 previously or concurrently. This course is a continuation of MACF 401 and focuses on modelling and computational techniques beyond the binomial model. Simulation; Monte-Carlo methods in finance; option valuation; hedging; heat equation; finite difference techniques; stability and convergence; exotic derivatives; risk management; calibration and parameter estimation.

- MACF 491** *Topics in Mathematical and Computational Finance* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

- MACF 492** *Reading Course in Mathematical and Computational Finance* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Mathematics and Statistics

- MAST 214** *Calculus and Linear Algebra* (6 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB. Functions; maxima and minima. Velocity and acceleration. Iterative solution of equations, parametric equation of curves. Integrals; change of variables, integration by parts, double integrals, numerical integration. Conic sections. Matrices, determinants, eigen-values, eigenvectors, system of equations. Series and their convergence. Introduction to vector space and complex numbers. Word problems.

NOTE: This course can be counted as an elective towards a 90-credit degree program, but must be taken before any other post-Cegep Mathematics course except for MAST 217, which may be taken concurrently. It must be taken, upon entry, by newly admitted students in the MATH/STAT Major who have less than 70% average in Cegep Mathematics courses.

- MAST 217** *Introduction to Mathematical Thinking* (3 credits)

Prerequisite: MATH 203 or Cegep Mathematics 103 or 201-NYA; MATH 204 or Cegep Mathematics 105 or 201-NYC or equivalent. This course aims to foster analytical thinking through a problem-solving approach. Topics include construction of proofs, number systems, ordinality and cardinality, role of examples and counter examples, role of generalizations and specializations; role of symbols, notations and definitions; styles of mathematical discourse.

NOTE: Students who have received credit for MASZ 217 or MATH 216 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 217, COMP 232 and COMP 238.

NOTE: Students with more than 12 credits in post-Cegep Mathematics (excluding MAST 214) may not take this course for credit.

- MAST 218** *Multivariable Calculus I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Vector geometry; lines and planes; curves in \mathbb{R}^n ; vector functions; vector differential calculus; extrema and Lagrange multipliers. Introduction to multiple integrals and coordinate transformations. Problem solving with MAPLE.

NOTE: Students who have received credit for MATH 262 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 218; MATH 264.

- MAST 219** *Multivariable Calculus II* (3 credits)

Prerequisite: MAST 218 or equivalent. Vector integral calculus; line and surface integrals; Green's, Stokes' and Gauss' theorems; coordinate transformations and Jacobians. Power series, applications. Problem solving with MAPLE.

NOTE: Students who have received credit for MATH 263 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 219; MATH 265.

- MAST 221** *Applied Probability* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent; MAST 218 or equivalent previously or concurrently. Counting rules, discrete probability distributions; random sampling; conditional probability; means and variances, normal and other continuous sampling distributions. Applications. Use of MINITAB and/or SYSTAT.

NOTE: Students who have received credit for MATH 242, STAT 249, COMP 233, ECON 221 or ENGR 371 may not take this course for credit.

NOTE: Students who have received credit for MAST 221 may take STAT 249 for credit only with prior permission of the Department.

NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Please see §200.7 and consult the Mathematics and Statistics undergraduate program advisor.

MAST 223 *Introduction to Stochastic Methods of Operations Research* (3 credits)

Prerequisite: MAST 221 or equivalent; MAST 219 or equivalent previously or concurrently. Markov chains; queuing theory; inventory theory; Markov decision processes; applications to reliability.

NOTE: Students who have received credit for MATH 337 or STAT 349 may not take this course for credit.

NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Please see \$200.7 and consult the Mathematics and Statistics undergraduate program advisor.

MAST 224 *Introduction to Optimization* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Introduction to the theory of optimization; linear programming; the simplex method; duality and transportation problem. Introduction to graphs and networks; applications. Use of computing softwares.

NOTE: Students who have received credit for MATH 231 or 361 may not take this course for credit.

MAST 232 *Mathematics with Computer Algebra* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. An introduction to the use of a high-level mathematical programming language (MAPLE or MATHEMATICA) as a practical aid in doing mathematics. Most classes are given in an interactive way in the computer laboratory. The emphasis is on applications, not on general programming techniques or abstract structures. The aim is to arrive at a sufficient working familiarity with the computer algebra language to permit its regular use in subsequent studies and applications. The commands and online resources are introduced through a review of arithmetic, complex numbers, algebra, Euclidean geometry, trigonometry, coordinate systems and graphing, elementary functions and transformations, series, derivatives, integrals, vectors and matrices. There may be additional topics from domains such as number theory, differential equations, integral transforms, probability and statistics.

NOTE: Students who have received credit for MAST 332 or COMP 367 or 467, or for this topic under a MAST 397 number, may not take this course for credit.

MAST 234 *Linear Algebra and Applications I* (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC or equivalent. System of linear equations, matrix operations, echelon forms and LU-factorization; \mathbb{R}^n : subspaces, linear dependence, basis, dimension, matrix transformations; eigenvalues and eigenvectors in \mathbb{R}^n and applications (e.g. Markov chains, dynamical systems). The software MAPLE is extensively used.

NOTE: Students who have received credit for MATH 251, 282 or ECON 325 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 234; MATH 251.

MAST 235 *Linear Algebra and Applications II* (3 credits)

Prerequisite: MAST 234 or equivalent. \mathbb{R}^n : Orthogonality, projections, Gram-Schmidt method and QR-factorization; applications to least square methods (data fitting, inconsistent systems). Symmetric matrices, principal axes theorem and applications. Special topics (e.g. coding theory, differential equations, error analysis). The software MAPLE will be extensively used.

NOTE: Students who have received credit for MATH 252 or 283 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 235; MATH 252.

MAST 330 *Differential Equations* (3 credits)

Prerequisite: MAST 219, 234 or equivalent. First order differential equations; second order differential equations; Laplace transform methods; mathematical models and numerical methods.

NOTE: Students who have received credit for MATH 271 may not take this course for credit.

MAST 331 *Mathematical Modelling* (3 credits)

Prerequisite: MAST 221, 224 previously or concurrently, 234 or equivalent. Introduction to mathematical modelling; predator-prey models in biology, game theory, decision analysis, stability theory; modelling electric circuits.

MAST 332 *Techniques in Symbolic Computation* (3 credits)

Prerequisite: MAST 217 or COMP 238 or equivalent; COMP 248 or equivalent; MAST 232 or permission of the Department. This course is an application-oriented introduction to symbolic computation, as it applies to algebra, number theory and combinatorics covering the following topics: capabilities of symbolic systems (e.g. MAPLE), modular methods, arithmetic mod p, arithmetic mod m, matrices mod p, Chinese remainder theorem, polynomial factorization mod p. Applications to coding theory and cryptography. Combinatorial algorithms.

NOTE: Students who have received credit for MATH 232 or COMP 367 or 467 may not take this course for credit.

MAST 333 *Applied Statistics* (3 credits)

Prerequisite: MAST 221 or equivalent. Graphical and numerical descriptive methods; Estimation and hypothesis testing; linear regression and correlation; one way ANOVA; contingency and goodness of fit tests. Use of statistical software, e.g. MINITAB or SYSTAT.

NOTE: Students who have received credit for MATH 243, STAT 360, BIOL 322, COMM 215, COMP 233, ECON 221 or GEOG 362 may not take this course for credit.

NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Please see \$200.7 and consult the Mathematics and Statistics undergraduate program advisor.

MAST 334 Numerical Analysis (3 credits)

Prerequisite: MAST 219 or equivalent; MAST 232 or equivalent; MAST 235 previously or concurrently. Introduction to computing softwares; numerical solution of non-linear equations; interpolations and approximations; quadrature and numerical integration.

NOTE: Students who have received credit for MATH 311 or 354 may not take this course for credit.

MAST 335 Investment Mathematics (3 credits)

Prerequisite: MAST 218 or equivalent. Simple and compound interest; annuities; amortization and sinking funds; mortgage schemes; bonds and related securities; capital cost and depletion; spread-sheet implementation.

NOTE: Students who have received credit for MATH 326 may not take this course for credit.

NOTE: Only three credits will be awarded from MAST 335; ACTU 256.

MAST 397 Topics in Mathematics and Statistics (3 credits)**MAST 398 Reading Course in Mathematics and Statistics** (3 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Mathematics

MATH 200 Fundamental Concepts of Algebra (3 credits)

This course is designed to give students the background necessary for MATH 201. Some previous exposure to algebra is assumed. Sets, algebraic techniques, inequalities, graphs of equations. Lectures and tutorials.

NOTE: Students who have received credit or exemption for a course at the level of MATH 201 or above may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 201 Elementary Functions (3 credits)

Sets, inequalities, graphs of functions, and relations. Trigonometric, exponential, and logarithmic functions. Lectures and tutorials.

NOTE: Students who have received credit or exemption for MATH 203 or equivalent, or for a course having MATH 203 or equivalent in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 202 College Algebra (3 credits)

Prerequisite: MATH 201 or equivalent. Progressions, combinations, permutations, binomial theorem, mathematical induction, inequalities, polynomials, cartesian and polar forms of complex numbers, conics. Lectures and tutorials.

NOTE: Students who have received credit or an exemption for a course at the level of ACTU 256 or above; MAST 218 or above; MATH 251 or above; STAT 249 or above; or for a course having any of these courses in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 203 Differential and Integral Calculus I (3 credits)

Prerequisite: MATH 201 or equivalent. Functional notation. Differentiation of polynomials. The power, product, quotient, and chain rules. Differentiation of elementary functions. Implicit differentiation. Higher derivatives. Maxima and minima. Applications: tangents to plane curves, graphing, related rates. Approximations using the differential. Antiderivatives, definite integrals, area. Lectures and laboratory.

NOTE: Students who have received credit or an exemption for a course at the level of ACTU 256 or above; MAST 218 or above; MATH 251 or above; STAT 249 or above; or for a course having any of these courses in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 204 Vectors and Matrices (3 credits)

Prerequisite: MATH 201 or equivalent. Algebra and geometry of vectors, dot and cross products, lines and planes. System of equations, operations on matrices, rank, inverse, quadratic form, and rotation of axes. Lectures and tutorials.

NOTE: Students who have received credit or an exemption for a course at the level of ACTU 256 or above; MAST 218 or above; MATH 251 or above; STAT 249 or above; or for a course having any of these courses in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 205 Differential and Integral Calculus II (3 credits)

Prerequisite: MATH 203. Techniques of integration: substitutions, integration by parts, partial fractions. Improper integrals. Physical applications of the definite integral. Infinite series: tests for convergence. Power series, Taylor's theorem. Lectures and laboratory.

NOTE: Students who have received credit or an exemption for a course at the level of ACTU 256 or above; MAST 218 or above;

MATH 251 or above; STAT 249 or above; or for a course having any of these courses in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 206 Algebra and Functions (3 credits)

Coordinate systems. Radicals and distance formula. Polynomials, factoring, and graphing. Relations and functions. Linear and quadratic functions, equations, and systems. Exponents, exponential and logarithmic functions and equations. Lectures and tutorials.

NOTE: Students who have received credit or exemption for a course at the level of MATH 201 or above may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 208 Fundamental Mathematics I (3 credits)

Prerequisite: MATH 206 or equivalent. This course is a prerequisite course for John Molson School of Business students*. Matrices, Gaussian elimination, input-output analysis, progressions, compound interest, annuities, permutations and combinations, probability, binomial theorem, exponential and logarithmic functions, inequalities, linear programming. Lectures and tutorials.

*NOTE: See §14.2.2 (Mature Entry) and 61.20 (Extended Credit).

NOTE: Students who have received credit or an exemption for a course at the level of ACTU 256 or above; MAST 218 or above; MATH 251 or above; STAT 249 or above; or for a course having any of these courses in its sequence of prerequisites, may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 209 Fundamental Mathematics II (3 credits)

Prerequisite: MATH 206 or equivalent. This course is a prerequisite course for John Molson School of Business students*. Limits; differentiation of rational, exponential, and logarithmic functions; theory of maxima and minima; integration. Lectures and tutorials.

*NOTE: See §14.2.2 (Mature Entry) and 61.20 (Extended Credit).

NOTE: Students who have received credit or exemption for MATH 203 or equivalent may not take this course for credit.

NOTE: Students in programs leading to the BSc degree or the BA programs in Mathematics and Statistics may not take this course for credit to be applied to their program of concentration.

MATH 212 The Fascinating World of Numbers (3 credits)

This course deals with a blend of fascinating mathematical themes in various contexts: historical, cultural, and practical. It is intended for non-mathematics students. One of the aims of the course is to demonstrate the presence of mathematics and mathematical ideas in many aspects of modern life. At a deeper level, it is also intended to explain what mathematics is all about and why some easily stated assertions, such as Fermat's last theorem, are so difficult to prove. Students who complete the course successfully should have enough understanding and knowledge of fundamental ideas and techniques of mathematics to appreciate its power, its beauty, and its relevance in so many different fields such as architecture, art, commerce, engineering, music, and all of the sciences.

NOTE: Students who have received credit for this topic under a MATH 298 or MATZ 298 number may not take this course for credit.

NOTE: Students enrolled in a Mathematics and Statistics program and students who have taken mathematics beyond the pre-calculus level may not take this course for credit.

MATH 215 Great Ideas in Mathematics (3 credits)

Mathematics is used to unravel the secrets of nature. This course introduces students to the world of mathematical ideas and mathematical thinking. Without being overly technical, that is, without requiring any formal background from the student other than high school mathematics, the course delves into some of the great ideas of mathematics. The topics discussed range from the geometric results of the Ancient Greeks to the notion of infinity to more modern developments.

NOTE: This course is designed as a suitable elective for students following an undergraduate program. It has no formal prerequisites and will not qualify students to enrol for any other Mathematics course, and cannot be used to satisfy a Mathematics requirement in any BSc or BA program.

NOTE: Students who have received credit for INTE 215 or MATZ 215 may not take this course for credit.

MATH 220 Mathematical Methods in Chemistry (3 credits)

Prerequisite: Cegep Mathematics 203 or 201-NYC, 203 or 201-NYB or MATH 205. Partial derivatives. First-order differential equations (first- and second-order chemical reactions). Hermite, Laguerre, and Legendre equations. Solutions by power series. Eigenfunctions and eigenvalues, Sturm-Liouville theory.

MATH 251 Linear Algebra I (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Matrices and linear equations; vector spaces; bases, dimension and rank; linear mappings and algebra of linear operators; matrix representation of linear operators; determinants; eigenvalues and eigenvectors; diagonalization.

NOTE: Students who have received credit for MAST 234, MATH 282 or ECON 325 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 251; MAST 234.

MATH 252 Linear Algebra II (3 credits)

Prerequisite: MATH 251 or equivalent. Characteristic and minimum polynomials; invariant subspaces, invariant direct sums; nilpotent operators, Jordan canonical form; cyclic subspaces; rational canonical form; bilinear and quadratic forms; inner product; orthogonality; adjoint operators and orthogonal operators.

NOTE: Students who have received credit for MAST 235 or MATH 283 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 252; MAST 235.

MATH 264 Advanced Calculus I (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent. Introduction to limits and continuity in \mathbb{R}^n . Multivariate calculus: the derivative as a linear approximation; matrix representation of derivatives; tangent spaces; gradients, extrema, including Lagrange multipliers, Taylor's formula and the classification of critical points.

NOTE: Students who have received credit for MATH 262 or 344 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 264; MAST 218.

MATH 265 Advanced Calculus II (3 credits)

Prerequisite: MATH 264 or equivalent. Implicit functions and the implicit function theorem. Multiple integrals and change of variables. Curves, surfaces and vector calculus.

NOTE: Students who have received credit for MATH 263 or 345 may not take this course for credit.

NOTE: Only three credits will be awarded from MATH 265; MAST 219.

MATH 339 Combinatorics (3 credits)

Prerequisite: 18 credits in post-Cegep Mathematics. General principles of counting, permutations, combinations, identities, partitions, generating functions, Fibonacci numbers, Stirling numbers, Catalan numbers, principle of inclusion-exclusion. Graphs, subgraphs, isomorphism, Euler graphs, Hamilton paths and cycles, planar graphs, Kuratowski's Theorem, trees, colouring, 5-colour theorem, matching, Hall's theorem.

NOTE: Students who have received credit for COMP 339 may not take this course for credit.

MATH 352 Linear Algebra III (3 credits)

Prerequisite: MATH 252. Matrices, linear transformations, determinants, metric concepts, inner-product spaces, dual spaces, spectral theorem, bilinear and quadratic forms, canonical forms for linear transformation, matrix functions, selected topics.

NOTE: Students who have received credit for MATH 381 may not take this course for credit.

MATH 354 Numerical Analysis (3 credits)

Prerequisite: MATH 265 or equivalent; MATH 252 or equivalent, previously or concurrently. Error analysis in numerical algorithms; solution of non-linear equations; fixed point iterations, rate of convergence. Interpolations and approximations, Legendre polynomials. Numerical integration and quadrature.

NOTE: Students who have received credit for MATH 311 or MAST 334 may not take this course for credit.

MATH 361 Operations Research I (3 credits)

Prerequisite: MATH 251 or equivalent. Introduction to the theory of optimization; linear programming, simplex method; revised simplex method; transport and assignment problems; integer programming; introduction to graphs and networks.

NOTE: Students who have received credit for MATH 231 or MAST 224 may not take this course for credit.

MATH 364 Analysis I (3 credits)

Prerequisite: 12 credits in post-Cegep Mathematics or permission of the Department. Mathematical rigour: proofs and counter-examples; quantifiers; number systems; Cardinality, decimal representation, density of the rationals, least upper bound. Sequences and series; review of functions, limits and continuity.

NOTE: Students who have received credit for MATH 244 or 362 may not take this course for credit.

MATH 365 Analysis II (3 credits)

Prerequisite: MATH 364 or equivalent. Connectedness and compactness in the reals. Intermediate value theorem; extreme values for continuous functions. Differential and integral calculus; fundamental theorem of calculus; power series.

NOTE: Students who have received credit for MATH 245 or 363 may not take this course for credit.

MATH 366 Complex Analysis I (3 credits)

Prerequisite: MATH 265 or equivalent. Algebra and geometry of complex numbers, linear transformations, analytic functions, Laurent's series, calculus of residues, special functions.

MATH 369 Abstract Algebra I (3 credits)

Prerequisite: 12 credits in post-Cegep Mathematics or permission of the Department. Introduction to the ring of integers and the integers modulo N. Groups: definitions and examples; sub-groups, quotients and homomorphisms (including Lagrange's theorem, Cayley's theorem and the isomorphism theorems). Introduction to the Cauchy and Sylow theorems and applications.

NOTE: Students who have received credit for MATH 393 may not take this course for credit.

MATH 370 Ordinary Differential Equations (3 credits)

Prerequisite: MATH 265, 251 or equivalent. Separable equations, exact equations, integrating factors, force fields, first order linear equations, input-output concept, second order equations, Sturm-Liouville problems, applications, series solutions, reduction

of order, variation of parameters, nth-order linear equations with constant coefficients, Laplace transforms, block diagrams, and signal-flow graphs.

NOTE: Students who have received credit for MATH 271 or MAST 330 may not take this course for credit.

MATH 380 Differential Geometry (3 credits)

Prerequisite: MATH 252, 365, 370. Calculus on Euclidian spaces, tangent vectors, directional derivatives, differential forms, mappings, curves, frame fields, Serret-Frenet formulae, covariant derivatives; calculus on a surface, tangent spaces, differential forms on a surface, mappings between surfaces, integration of forms, Stokes' theorem.

MATH 387 Mathematics Lab III (2 credits)

This lab will demonstrate the use of MAPLE software for Calculus, Linear Algebra, and Statistics.

NOTE: Students who have received credit for MATH 232 may not take this course for credit.

MATH 392 Elementary Number Theory (3 credits)

Prerequisite: 18 credits in post-Cegep Mathematics. Number systems, division and factorization, number-theoretic functions, congruences, algebraic congruences and primitive roots, quadratic residues, diophantine equations.

MATH 397 History of Mathematics (3 credits)

Prerequisite: MATH 252 or permission of the Department; MATH 365. Early mathematics, Greek mathematics, European mathematics in the Middle Ages, the origin and development of analytic geometry and calculus, mathematics as free creation, the generality of mathematics in the 20th century.

MATH 433 Calculus of Variations (3 credits)

Prerequisite: MATH 265, 365, 370 or equivalent. Nature of problems, weak variations, the first variation, Euler's equation. The second variation, Jacobi's equation, Legendre's test, conjugate points. Relative maxima and minima, iso-perimetrical problems. Integrals with variable end points. Applications to problems in pure and applied mathematics; the principle of least action. Strong variations, the Weierstrass E-function.

MATH 464 Real Analysis (3 credits)

Prerequisite: MATH 265, 365 or equivalent. Metric spaces; function spaces; compactness, completeness, fixed-point theorems, Ascoli-Arzela theorem, Weierstrass approximation theorem.

MATH 466 Complex Analysis II (3 credits)

Prerequisite: MATH 265, 365, 366 or equivalent. Cauchy's theorem, singularities, maximum modulus principle, uniqueness theorem, normal families, Riemann mapping theorem.

MATH 467 Measure Theory (3 credits)

Prerequisite: MATH 265, 365 and 464 previously or concurrently, or equivalent. Lebesgue measure and integration on the real line, convergence theorems, absolute continuity, completeness of $L^2[0,1]$.

MATH 470 Abstract Algebra II (3 credits)

Prerequisite: MATH 369 or equivalent. Group action and proof of the Sylow theorems. Introduction to rings, ideals, euclidean domains, principal ideal domains and unique factorization domains; polynomial rings.

NOTE: Students who have received credit for MATH 394 may not take this course for credit.

MATH 471 Abstract Algebra III (3 credits)

Prerequisite: MATH 470 or equivalent. Rings and modules; structure theorem of modules over principal ideal domains. Noetherian rings and modules (including Hilbert basis theorem for rings and modules). Hilbert's Nullstellensatz.

NOTE: Students who have received credit for MATH 491 may not take this course for credit.

MATH 472 Abstract Algebra IV (3 credits)

Prerequisite: MATH 470 or equivalent. Elements of field and Galois theory, including straight-edge-and-compass construction and unsolvability of equations of fifth degree by radicals.

NOTE: Students who have received credit for MATH 492 may not take this course for credit.

MATH 473 Partial Differential Equations (3 credits)

Prerequisite: MATH 370 or equivalent. Canonical forms for second order linear equations with constant coefficients, classification of linear second order equations, method of separation of variables, first order PDE's, method of characteristics. Non-linear first order equations, complete integrals, Cauchy conditions, Cauchy-Kowalewski theorem, Fourier and Laplace transforms, Green's functions, integral representations, introduction to non-linear PDE's.

NOTE: Students who have received credit for MATH 371 may not take this course for credit.

MATH 474 Linear and Non-Linear Dynamical Systems (3 credits)

Prerequisite: MATH 265, 365 or equivalent, or permission of the Department. Systems of linear differential equations; fundamental matrices; non-homogeneous linear systems; non-linear systems; solutions and trajectories; the phase plane; stability concepts; Liapounov's second method; periodic solutions and limit cycles; introduction to boundary-value problems and Sturm-Liouville theory.

NOTE: Students who have received credit for MATH 373 may not take this course for credit.

MATH 475 Discrete Dynamical Systems, Chaos and Fractals (3 credits)

Prerequisite: MATH 265, 365 or equivalent, or permission of the Department. Introduction to discrete dynamical modelling; periodic points; bifurcation; period three points; symbolic dynamics; chaos; transitivity; conjugacy; complex behaviour; introduction to fractals; computer simulations.

NOTE: Students who have received credit for MATH 379 may not take this course for credit.

MATH 478 Non-Linear Programming (3 credits)

Prerequisite: MATH 361 or permission of the Department. Classical methods of optimization, Lagrange multipliers, Kuhn-Tucker conditions; line search methods, quadratic programming, gradient methods, introduction to dynamic programming.

NOTE: Students who have received credit for MATH 436 may not take this course for credit.

MATH 479 Convex and Non-Linear Analysis (3 credits)

Prerequisite: MATH 365 or permission of the Department. Support and separation of convex sets, extreme point characterizations, convex and dual cones, Farkas' theorem; minimax theorem of Game Theory, Legendre-Fenchel conjugate, infimal convolution, subgradient calculus; Lagrangians, necessary and sufficient conditions for optimality in constrained minimization; the dual problem.

MATH 494 Topics in Pure and Applied Mathematics (3 credits)**MATH 495 Reading Course in Pure and Applied Mathematics** (3 credits)**MATH 496 Honours Project in Pure and Applied Mathematics** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Statistics

STAT 249 Probability I (3 credits)

Prerequisite: Cegep Mathematics 105 or 201-NYC, 203 or 201-NYB or equivalent; MATH 264 or equivalent previously or concurrently. Axiomatic approach to probability; combinatorial probability; discrete and continuous distributions; expectation; conditional expectation; random sampling and sampling distributions.

NOTE: Students who have received credit for MATH 242, COMP 233, ECON 221 or ENGR 371 may not take this course for credit.

NOTE: Students who have received credit for MAST 221 may take STAT 249 for credit only with prior permission of the Department.

NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Please see §200.7 and consult the Mathematics and Statistics undergraduate program advisor.

STAT 250 Statistics (3 credits)

Prerequisite: STAT 249 or equivalent; MATH 265 or equivalent previously or concurrently. Point and interval estimation; hypothesis testing; Neyman Pearson Lemma and likelihood ratio tests; introduction to correlation and regression.

NOTE: Students who have received credit for MATH 243, COMP 233, ECON 221 or ENGR 371 may not take this course for credit.

NOTE: Students enrolled in a Mathematics and Statistics program who take probability/statistics courses in other departments may not receive credit for this course. Please see §200.7 and consult the Mathematics and Statistics undergraduate program advisor.

STAT 287 Statistics Lab I (1 credit)

This lab is associated with STAT 249 and 250 and features problem-solving sessions for the probability examination of the Society of Actuaries and the Casualty Actuarial Society.

NOTE: Students who have received credit for MATH 329 may not take this course for credit.

STAT 342 Industrial Statistics (3 credits)

Prerequisite: STAT 250 or MAST 333. Concepts of statistical quality control; X-bar, R, P, and C control charts, acceptance sampling, sampling inspection, continuous sampling plans.

NOTE: Students who have received credit for MATH 342 may not take this course for credit.

STAT 343 Sample Survey Theory and Applications (3 credits)

Prerequisite: STAT 250 or MAST 333. Basic sampling designs and estimators; simple random sampling, stratified, cluster and systematic sampling. Sampling with unequal probabilities; ratio and regression methods of estimation.

NOTE: Students who have received credit for MATH 343 may not take this course for credit.

STAT 347 Introduction to Non-Parametric Statistics (3 credits)

Prerequisite: STAT 250 or MAST 333. Theory of rank tests, sign test, Mann-Whitney and Wilcoxon one-sample and two-sample tests, Kruskal-Wallis test, goodness of fit tests, Kolmogorov-Smirnov test, Pearson chi-square test, rank correlation and Kendall's tau.

NOTE: Students who have received credit for MATH 347 may not take this course for credit.

STAT 349 Probability II (3 credits)

Prerequisite: STAT 249 or equivalent. Markov decision process and applications. Poisson process, queuing theory, inventory theory; applications.

NOTE: Students who have received credit for MAST 223 and/or MATH 337 and/or MATH 351 may not take this course for credit.

STAT 360 *Linear Models* (3 credits)

Prerequisite: STAT 250 or equivalent. Least-squares estimators and their properties. General linear model with full rank. Analysis of residuals; adequacy of model, lack of fit test, weighted least squares; stepwise regression, Durbin-Watson statistic; one way and two way analysis of variance.

NOTE: Students who have received credit for MATH 348, ECON 222 or PSYC 316 may not take this course for credit.

STAT 388 *Statistics Lab II* (2 credits)

This lab will use various softwares such as SYSTAT, SAS, SPLUS, MINITAB for data analysis.

NOTE: Students who have received credit for MATH 232 may not take this course for credit.

STAT 449 *Advanced Probability* (3 credits)

Prerequisite: STAT 250, 349. Central limit theorems and law of large numbers, convergence of random variables, characteristic function, moment generating function, probability generating functions, random walk and reflection principle.

NOTE: Students who have received credit for MATH 451 may not take this course for credit.

STAT 450 *Mathematical Statistics* (3 credits)

Prerequisite: STAT 250, 349 previously or concurrently, or permission of the Department. Derivation of standard sampling distributions; distribution of order-statistics; estimation, properties of estimators; Rao-Cramer inequality, Rao-Blackwell theorem, maximum likelihood and method of moments estimation, Neyman-Pearson theory, likelihood ratio tests and their properties.

NOTE: Students who have received credit for MATH 454 may not take this course for credit.

STAT 452 *Introduction to Stochastic Processes* (3 credits)

Prerequisite: STAT 449. Continuous stochastic processes. Poisson processes, continuous time Markov process, queuing models, birth and death processes, renewal theory.

NOTE: Students who have received credit for MATH 353 may not take this course for credit.

STAT 460 *Time Series and Forecasting* (3 credits)

Prerequisite: STAT 360. Time series, forecasting by trend and irregular components (using multiple regression analysis and exponential smoothing); forecasting seasonal time series, additive and multiplicative decomposition methods, Box-Jenkins methodology, moving average, autoregressive and mixed models.

NOTE: Students who have received credit for MATH 443 may not take this course for credit.

STAT 461 *Operations Research II* (3 credits)

Prerequisite: STAT 349. Simulation and Monte-Carlo techniques; selected topics in operations research.

NOTE: Students who have received credit for MATH 437 may not take this course for credit.

STAT 465 *Multivariate Statistics* (3 credits)

Prerequisite: MATH 252; STAT 360 or equivalent. Multivariate normal distribution; estimation and testing of hypothesis about mean vector; multiple and partial correlation; MANOVA; principal components analysis.

STAT 468 *Design of Experiments* (3 credits)

Prerequisite: STAT 360. Construction and analysis of standard designs, including balanced designs; block designs; orthogonal designs; response surface designs.

STAT 480 *Statistical Data Analysis* (3 credits)

Prerequisite: STAT 360 or permission of the Department. The analysis of real life data sets using computer packages. Topics involve techniques from generalized linear models; model selection; log-linear models for categorical data analysis; logistic regression; censored survival models.

NOTE: Students who have received credit for MATH 445 or DESC 445 may not take this course for credit.

STAT 497 *Topics in Statistics* (3 credits)**STAT 498 *Reading Course in Statistics*** (3 credits)**STAT 499 *Honours Project in Statistics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

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PHILOSOPHY

Faculty

Chair

DAVID MORRIS, PhD *Tor.*, Professor

Professors

MURRAY CLARKE, PhD *W.Ont.*
CHRISTOPHER B. GRAY, PhD *C.U.A.*
SHEILA MASON, PhD *Purdue*
JUSTIN SMITH, PhD *Col.*

Associate Professors

ANDREA FALCON, PhD *Padua*
MATTHIAS FRITSCH, PhD *Villanova*
PABLO GILABERT, PhD *New Sch.*
GREGORY LAVERS, PhD *W.Ont.*

Assistant Professor

MATTHEW BARKER, PhD *Wis.(Madison)*

Affiliate Professors

BELA EGYED, PhD *McG.*
GEORGE GALE, PhD *Calif.(Davis)*
KAI NIELSEN, PhD *Duke*

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
Annex PR, Room: 203
514-848-2424, ext. 2500

Department Objectives

The Department of Philosophy offers a broad range of studies in philosophy. This includes courses in the history of philosophy spanning three millennia and courses covering a diverse spectrum of philosophical topics and approaches. Many of the courses are designed for undergraduates pursuing studies in other disciplines in the humanities, social sciences, and sciences. The aim is to contribute to the development of critical, informed, and open minds.

Programs

The major and minor programs give students an understanding of the aims, methods, and content of a range of major philosophical periods and traditions. The honours program prepares students for graduate study in philosophy.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

60 BA Honours in Philosophy

Stage I

- 12 PHIL 214³, 232³, 260³, 261³
3 Chosen from PHIL 263³, 265³
Stage II
9 PHIL 330³, 360³, 361³
3 Chosen from PHIL 364³, 365³
3 Chosen from PHIL 362³, 374³, 377³
9 PHIL elective or cognate credits at the 300 or 400 level*

Stage III

- 3 Chosen from PHIL 414³, 416³, 420³, 425³, 463³, 465³, 489³
- 3 Chosen from PHIL 430³, 440³, 471³
- 3 Chosen from PHIL 480³, 481³, 483³, 485³, 486³, 487³
- 12 PHIL elective or cognate credits at the 400 level*

*PHIL elective or cognate credits to be chosen in consultation with the Department.

NOTE: Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental undergraduate advisor normally following the completion of 30 credits.

36 BA Major in Philosophy

Stage I

- 3 Chosen from PHIL 210³, 214³
- 9 PHIL 232³, 260³, 261³
- 3 Chosen from PHIL 263³, 265³

Stage II

- 6 PHIL 360³, 361³
- 3 Chosen from PHIL 362³, 374³, 377³

Stage III

- 6 PHIL elective credits at any level
- 6 PHIL elective credits at the 400 level*

*PHIL elective or cognate credits to be chosen in consultation with the Department.

24 Minor in Philosophy

- 6 Chosen from PHIL 232³, 263³, 265³
- 6 PHIL elective credits at the 200 level or higher
- 12 PHIL elective credits from the 300 level or higher

Courses

PHIL 201 Problems of Philosophy (3 credits)

In this course, students are introduced to philosophical problems such as: What is the nature of reality? How does one know what is real, and how is it distinct from misleading appearances or illusion? What is knowledge? Does knowledge require certainty? How is knowledge distinct from belief? Are people free? That is to say, do they choose their actions or are their actions determined by causes beyond their control? If people are not free, then how can they be held responsible for their actions? Can God's existence be proven? How is the mind related to the body, if at all? What is it to be a morally good person?

NOTE: Students who have received credit for PHIZ 201 may not take this course for credit.

PHIL 210 Critical Thinking (3 credits)

This course is an introduction to argumentation and reasoning. It focuses on the kinds of arguments one is likely to encounter in academic work, in the media, and in philosophical, social, and political debate. The course aims to improve students' ability to advance arguments persuasively and their ability to respond critically to the arguments of others. Students will find the skills they gain in this course useful in virtually every area of study.

NOTE: Students who have received credit for PHIZ 210 or for this topic under a PHIZ 298 number may not take this course for credit.

PHIL 214 Deductive Logic (3 credits)

This course presents the modern symbolic systems of sentential and predicate logic. Students transcribe English sentences into a logical form, analyze the concepts of logical truth, consistency, and validity, as well as learn to construct derivations in each system.

NOTE: This course may not be taken for credit by students who have taken PHIL 212.

PHIL 216 Introduction to the Philosophy of Language (3 credits)

This course provides an introduction to the main problems in the philosophy of language, concerned with the analysis of the concepts of meaning, reference, truth, necessity.

PHIL 218 Inductive Logic (3 credits)

Prerequisite: PHIL 214, or permission of the Department. This course provides an introduction to probabilistic and non-probabilistic approaches to inductive logic. Topics covered may include: Hume's problem of induction, the new riddle of induction, causality, and the interpretation of the probability calculus.

PHIL 220 Introduction to the Philosophy of Science (3 credits)

This course provides an introduction to the main problems in the philosophy of science. These include the structure of scientific theories, various models of scientific method and explanation, and the existence of unobservables.

NOTE: Students who have received credit for INTE 250 or PHIL 228 may not take this course for credit.

PHIL 226 *Mind and Action* (3 credits)

Drawing from contemporary work in philosophy and psychology, students have the opportunity to consider philosophical questions about the nature of the mind. For example: What is the relation between mind and brain? Can there be disembodied minds? What is conscious experience and how is it to be studied? Is artificial intelligence possible? The other major theme of this course is the possible motives for human action. For example: Can people act without intentions? Can they have intentions without free will? What influence do environmental, genetic, and societal factors have on their actions?

PHIL 232 *Introduction to Ethics* (3 credits)

Philosophical discussions of ethics have both practical significance (What should one do?) and theoretical interest (What does it mean to say "That's the right thing to do"?). In this course, students are introduced to some representative approaches to ethical thought and action. General questions about the nature of ethical reasoning are also considered. For example: Are there objective ethical truths or are ethical judgments merely relative to social norms? An effort is made to incorporate those ethical issues which are of specific importance to contemporary society.

NOTE: Students who have received credit for PHIZ 232 may not take this course for credit.

PHIL 233 *Applied Ethics* (3 credits)

This course focuses on ethical theory and its application to contemporary issues. The course covers central ethical theories such as virtue ethics (Aristotle), deontology (Kant), and utilitarianism (Mill). It applies these theories to contemporary moral issues such as humans' relation to the environment and nonhuman animals, abortion, consumerism, the use of recreational drugs, the rationing of health-care resources, and national and international distributive justice.

NOTE: Students who have received credit for PHIZ 233 or for this topic under a PHIL 298 or PHIZ 298 number may not take this course for credit.

PHIL 234 *Business Ethics* (3 credits)

The purpose of this course is to reflect on issues associated with corporate responsibility with a view to identifying and responding to ethical situations, rather than focusing on specific rules of governance.

PHIL 235 *Biomedical Ethics* (3 credits)

This course is primarily concerned with contemporary biomedical debates, many of which are of current social and political significance: euthanasia and physician-assisted suicide, patients' rights, animal experimentation, organ donation and transplantation, palliative care, abortion, genetic engineering, and new reproductive technologies.

NOTE: Students who have received credit for PHIZ 235 may not take this course for credit.

PHIL 236 *Environmental Ethics* (3 credits)

This course examines recent developments in ethical theories as they are applied to questions of environmental practices. Topics discussed may include the moral significance of nonhuman nature, duties to respond to climate change, economics and sustainable environmental protection, and environmental justice.

NOTE: Students who have received credit for this topic under a PHIL 298 or 398 number may not take this course for credit.

PHIL 241 *Philosophy of Human Rights* (3 credits)

This course investigates basic philosophical questions regarding human rights, such as their status between morality and law, their scope and the problem of relativism, the concept of human dignity, their relation to democracy, whether national or cosmopolitan, and the debate over the justifiability and feasibility of socio-economic rights as human rights.

NOTE: Students who have received credit for this topic under a PHIL 298 number may not take this course for credit.

PHIL 255 *Philosophy of Leisure* (3 credits)

Prerequisite: 30 university credits. This course is designed primarily for students in Therapeutic Recreation and Leisure Sciences. It consists of an examination of various leisure practices from the point of view of philosophical ideals of human fulfillment that include ethical thinking and reflection on some of the effects of global economic practices of consumption.

PHIL 260 *Presocratics and Plato* (3 credits)

This course is a study of ancient Greek philosophy from its beginnings to Plato.

PHIL 261 *Aristotle and Hellenistic Philosophy* (3 credits)

Prerequisite: PHIL 260, or permission of the Department. This course is an introduction to Aristotle and the main lines of thought in Hellenistic philosophy, including Stoicism, Epicureanism and Scepticism.

PHIL 263 *Introduction to Epistemology* (3 credits)

An introduction to the basic concepts and problems in epistemology, including belief, knowledge, scepticism, perception, and intentionality.

PHIL 265 *Introduction to Metaphysics* (3 credits)

This course is an introduction to metaphysics and the attempt to understand a mind-independent reality. This involves distinguishing those aspects of reality that are dependent on the mind from those aspects that are independent of the mind. For example, are colours mind-independent properties? Are there universal values and if so, are they mind-independent? Is there a God, and if so, what must that God be like?

PHIL 266 *Introduction to Philosophy of Religion* (3 credits)

This course explores a long philosophical tradition concerned with various issues associated with the idea of God, such as the various proofs for God's existence, and questions such as: How does the existence of evil affect one's views about God and the nature of God? What is the status of miracles? What are the varieties of religious experience, what is the nature of religious faith? How is one to understand religious language?

PHIL 275 *From Modern to Postmodern: Philosophical Thought and Cultural Critique* (3 credits)

This course focuses on key developments in modern and postmodern philosophy and their cultural influences. The course provides an introduction to philosophers (such as Kant, Nietzsche, and Foucault) and philosophical movements (such as empiricism, existentialism, and post-structuralism) of the modern era. It also introduces students to the tremendous influence that philosophical theory has had on the arts, on social and political movements, and on virtually every field of study in the humanities and social sciences.

NOTE: Students who have received credit for this topic under a PHIZ 298 number may not take this course for credit.

PHIL 285 *Non-Western Philosophy* (3 credits)

This course introduces the student to the philosophical traditions of non-Western cultures. The particular focus differs from year to year.

PHIL 298 *Introductory Topics in Philosophy* (3 credits)**PHIL 299 *Introductory Topics in Philosophy*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHIL 314 *Intermediate Logic: Metatheory* (3 credits)

Prerequisite: PHIL 214, or permission of the Department. This course presents the basic concepts of metalogic, including mathematical induction, soundness and completeness, and decidability.

PHIL 315 *Intermediate Logic: Themes and Problems* (3 credits)

Prerequisite: PHIL 214, or permission of the Department. Topics covered may include modal logic, probabilistic logic, many-valued logic, relevance logic, and historical themes in logic.

PHIL 318 *Philosophy of Biology* (3 credits)

Prerequisite: Three credits in Philosophy or permission of the Department. This course examines a variety of philosophical issues in biology. Topics covered may include: fitness, function, units of selection, the nature of species, reductionism, biological explanation of human behaviour and the ethical and epistemological consequences of evolutionary theory.

PHIL 324 *Philosophy of Social Science* (3 credits)

Prerequisite: Three credits in Philosophy or 12 credits in social science, or permission of the Department. This course offers a philosophical examination of the structure and methodology of the social sciences.

PHIL 325 *Minds, Brains and Machines* (3 credits)

Prerequisite: PHIL 226, or permission of the Department. An examination of the computer model of the mind by consideration of the classical computationalist account and its problems, together with some attention to the connectionist alternative.

PHIL 327 *Artificial Intelligence* (3 credits)

Prerequisite: Three credits in Philosophy or Computer Science. The purpose of this course is to explore the analogy between mental activity and the operation of computers or "electronic brains," with a view to answering the question: Can machines think? Topics may include the theory of the Turing machine, the Turing test of intelligence, the functionalist theory of the mind, the nature of creativity, and the implications of Gödel's incompleteness theorem.

PHIL 328 *Intermediate Philosophy of Science* (3 credits)

Prerequisite: Three credits in Philosophy or permission of the Department. This course provides an in-depth study of the nature of justification in science, theories of scientific explanation, the rationality of theory change, and debates concerning realism and antirealism.

PHIL 329 *Conceptual Revolutions in Science* (3 credits)

Prerequisite: Three credits in Philosophy or permission of the Department. This course examines the philosophical implications of major scientific revolutions. Examples of such revolutions may include the Newtonian revolution and Einstein's theories of relativity.

PHIL 330 *Contemporary Ethical Theory* (3 credits)

Prerequisite: PHIL 232 or 233 or 234 or 235 or 236 or 241, or permission of the Department. This course provides an examination of contemporary ethical theories such as deontology, utilitarianism, virtue theory, feminist ethics, and narrative ethics.

NOTE: Students who have received credit for PHIZ 330 or for this topic under a PHIL 398 or PHIZ 398 number may not take this course for credit.

PHIL 333 *Philosophical Ideas in Literature* (3 credits)

Prerequisite: Three credits in Philosophy, or permission of the Department. This course presents a comparative approach to philosophical ideas in literature, which may involve authors from different historical time frames, different world views, or different perspectives of a single author.

PHIL 339 *Aesthetics* (3 credits)

Prerequisite: Three credits in Philosophy, or permission of the Department. A survey of aesthetic theories in philosophy, with particular attention to major developments in the modern and contemporary periods.

PHIL 342 *Political Philosophy* (3 credits)

Prerequisite: Three credits in Philosophy or Political Science, or permission of the Department. This course provides analyses of important political and philosophical concepts such as globalization, nationalism, power, multiculturalism, tolerance, liberty, equality, community, economic justice, and democracy.

PHIL 343 *Philosophy of Law: General Jurisprudence* (3 credits)

This course provides a philosophical study of natural law theory, legal positivism, and legal realism. The associated issues of legal moralism, legal justice, legal obligation and its limits, and legal reasoning are addressed and applied to cases.

PHIL 344 *The Philosophy of Liberalism* (3 credits)

In this course, the student examines several perspectives from which the problem of the relation between law and morality may be treated. Conflicting concepts of law, morality, and the relation of the individual to society are discussed. The problem of authority is examined in relation to issues of civil liberties, civil rights, and the social basis of legal conflicts.

PHIL 345 *Legal Philosophy: Legal Rights and Duties* (3 credits)

This course offers a philosophical study of the nature, sources, and functions of rights and duties. Attention is given to the particular rights associated with contract and property, and their abuse, to duties arising by law alone, to excuses and justifications for failure to fulfill duties, and to enforcement, punishment, and compromise.

PHIL 352 *Philosophy of History* (3 credits)

Prerequisite: Three credits in History or Philosophy, or permission of the Department. An analysis of the nature of historical knowledge and explanation is followed by a study of classical and contemporary attempts to elucidate the meaning of history. Authors may include Augustine, Vico, Kant, Hegel, Marx, Spengler, Popper, Toynbee, Arendt.

PHIL 356 *Philosophy of Education* (3 credits)

This course examines philosophical principles underlying educational theories and problems arising from the practical implementation of those theories.

PHIL 360 *Rationalism* (3 credits)

Prerequisite: 12 credits in Philosophy including PHIL 260 and 261, or permission of the Department. This course is a study of central aspects of the work of Descartes, Spinoza, and Leibniz, covering metaphysical, ethical and epistemological issues.

PHIL 361 *Empiricism* (3 credits)

Prerequisite: 12 credits in Philosophy including PHIL 260 and 261, or permission of the Department. This course is a study of central aspects of the work of Locke, Berkeley, and Hume, covering metaphysical, ethical, and epistemological issues.

PHIL 362 *Medieval Philosophy* (3 credits)

Prerequisite: PHIL 260 and 261, or permission of the Department. This course is an introduction to the main lines of thought in medieval philosophy. Thinkers examined may include Augustine, Boethius, Abelard, Anselm, Avicenna, Averroes, Thomas Aquinas, Duns Scotus, William of Occam.

NOTE: Students who have received credit for PHIL 363 may not take this course for credit.

PHIL 364 *Intermediate Epistemology* (3 credits)

Prerequisite: Three credits in Philosophy, or permission of the Department. This course presents an intermediate study of major contemporary issues in the theory of knowledge, such as scepticism, nonempirical knowledge, contextualism, virtue epistemology, experimental epistemology, and debates between internalists and externalists concerning justification and knowledge.

PHIL 365 *Intermediate Metaphysics* (3 credits)

Prerequisite: Three credits in Philosophy, or permission of the Department. This course presents an intermediate study of major contemporary issues in metaphysics, such as realism vs. anti-realism concerning the external world; mental causation, personhood and theories of human nature; universals, essences and natural kinds.

PHIL 371 *Philosophy of Feminism* (3 credits)

Prerequisite: PHIL 232 or 263, or permission of the Department. This course provides an introduction to some of the central issues in contemporary feminist philosophy. The key arguments in feminist epistemology, feminist ethics, and sex and gender studies are discussed from a variety of perspectives.

PHIL 374 Kant and 19th-Century Philosophy (3 credits)

Prerequisite: Six credits in Philosophy, or permission of the Department. This course examines Kant and some of the main currents of post-Kantian philosophy, possibly including Hegel and post-Hegelians, the romantic reaction, positivism, and pragmatism.

NOTE: Students who have received credit for PHIL 474 may not take this course for credit.

PHIL 377 20th-Century Continental Philosophy (3 credits)

Prerequisite: Six credits in Philosophy, or permission of the Department. This course examines 20th-century French and German philosophy. Philosophers examined may include Husserl, Heidegger, Merleau-Ponty, Foucault, Derrida, and Habermas.

PHIL 378 American Pragmatism (3 credits)

Prerequisite: Six credits in Philosophy, or permission of the Department. This course provides an analysis of some classical American pragmatists, such as Peirce, Dewey, James and C.I. Lewis, together with exponents of contemporary neopragmatism, such as Putnam, Rorty, and Quine.

PHIL 385 Marxism (3 credits)

This course provides a critical analysis of the ideas of Marx and their modern development.

PHIL 387 Existentialism (3 credits)

This course acquaints the student with the fundamentals of the existentialist movement as a philosophical perspective. Philosophers considered may include Kierkegaard, Nietzsche, Heidegger, Sartre, Merleau-Ponty, Jaspers, Marcel, and Berdyaev.

PHIL 398 Intermediate Special Topics in Philosophy (3 credits)

PHIL 399 Intermediate Special Topics in Philosophy (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHIL 414 Advanced Topics in Logic (3 credits)

Prerequisite: PHIL 314, or permission of the Department. This course presents the fundamentals of an advanced topic in logic.

PHIL 416 Philosophy of Language (3 credits)

Prerequisite: 12 credits in Philosophy or permission of the Department. This course is an advanced study of a central problem in recent philosophy of language.

PHIL 420 Advanced Philosophy of Science (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course explores advanced topics in the philosophy of science, such as theory change and justification, realism and anti-realism, or reductionism; or specific issues in philosophy of physics or biology, such as evolution and development.

PHIL 425 Philosophy of Mind: Cognitive Science (3 credits)

Prerequisite: PHIL 226 or 325 or 327, or permission of the Department. This interdisciplinary course combines the philosophical study of mind with current research in psychology, neuroscience, linguistics, and computer science.

PHIL 430 Advanced Studies in Ethics (3 credits)

Prerequisite: PHIL 232 or 330, or permission of the Department. This course offers a study of one or more of the following ethical theories: deontology, utilitarianism, virtue theory, feminist ethics, care ethics, narrative ethics, contractualism, and discourse ethics, with a focus on ethical reasoning and motivation.

PHIL 440 Advanced Political Philosophy (3 credits)

Prerequisite: PHIL 241 or 342, or permission of the Department. This course uses selected historical or contemporary writings in political philosophy to treat topics such as those of power, freedom, equality, distributive justice, law, and the boundaries of the political. Specific topics for this course are stated in the Undergraduate Class Schedule.

PHIL 463 Honours Seminar in Epistemology (3 credits)

Prerequisite: PHIL 263 or 265 or 364 or 365, and 12 credits in Philosophy, or permission of the Department. This course presents an intensive study of major contemporary issues in the theory of knowledge.

PHIL 465 Honours Seminar in Metaphysics (3 credits)

Prerequisite: PHIL 263 or 265 or 364 or 365, and 12 credits in Philosophy, or permission of the Department. This course presents an intensive study of major contemporary issues in metaphysics.

PHIL 471 Advanced Topics in Feminist Theory (3 credits)

Prerequisite: PHIL 371, or permission of the Department. An examination of recent issues in one of feminist ethics, epistemology or metaphysics. Subject will vary from year to year.

PHIL 480 *Plato* (3 credits)

Prerequisite: 12 credits in Philosophy including PHIL 260 and 261, or permission of the Department. Selected themes in the major dialogues of Plato are analyzed in depth.

PHIL 481 *Aristotle* (3 credits)

Prerequisite: 12 credits in Philosophy including PHIL 260 and 261, or permission of the Department. Selected passages from the major works of Aristotle are analyzed in depth.

PHIL 483 *Advanced Topics in the History of Philosophy* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course presents an intensive study of selected topics in the history of philosophy.

PHIL 485 *Kant* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course is an intensive study of Kant's *Critique of Pure Reason* and related works.

PHIL 486 *Hegel* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course is an analysis of selected themes from Hegel's works.

PHIL 487 *Early Analytic Philosophy* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course investigates selected philosophical problems as they arise in the writings of such early analytic philosophers as Moore, Russell, Ayer, Carnap, the early Wittgenstein, and Frege.

PHIL 488 *Contemporary Analytic Philosophy* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course investigates selected philosophical problems as they arise in the writings of such analytic philosophers as the later Wittgenstein, Quine, Ryle, Austin, Sellars, Davidson, Putnam, and others.

PHIL 489 *Phenomenology* (3 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. This course examines the phenomenological approach to philosophical problems, theoretical or practical. It may include discussion of the seminal works of Husserl, Heidegger, and Merleau-Ponty.

PHIL 490 *Advanced Continental Philosophy* (3 credits)

Prerequisite: 12 credits in Philosophy including PHIL 374 or 377, or permission of the Department. This course investigates selected philosophical problems as they arise in the works of such philosophers as Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, Levinas, Gadamer, Adorno, Derrida, Deleuze, Habermas, Irigaray, Foucault, and others. Specific topics for this course are stated in the Undergraduate Class Schedule.

PHIL 495 *Honours Essay* (3 credits)

Prerequisite: Enrolment in Honours Philosophy; 30 credits in Philosophy. With permission of the Department, an honours student may arrange a tutorial program with a faculty member culminating in a research project not exceeding 40 pages.

PHIL 496 *Tutorial in Philosophy*
(3 credits)

Prerequisite: Permission of the Department. This is an opportunity to carry out a personal project under the supervision of a faculty member. An intensive reading program is undertaken in the student's area of special interest. Tutorials may be arranged with any faculty member, and the student must make these arrangements and obtain written permission in advance of registration.
NOTE: Students who have received credit for PHIL 497 may take this tutorial for credit provided the subject matter is different.

PHIL 497 *Tutorial in Philosophy* (3 credits)

Prerequisite: Permission of the Department. See PHIL 496 for description.

NOTE: Students who have received credit for PHIL 496 may take this tutorial for credit provided the subject matter is different.

PHIL 498 *Advanced Topics in Philosophy* (3 credits)

PHIL 499 *Advanced Topics in Philosophy* (6 credits)

Prerequisite: 12 credits in Philosophy, or permission of the Department. Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.230

PHYSICS

Faculty

Chair

TRUONG VO-VAN, PhD *Tor.*, Professor

Professors

BARRY FRANK, PhD *Br.Col.*
MARIANA FRANK, PhD *Tor.*
CALVIN S. KALMAN, PhD *Roch.*, *Provost's Distinction*
SUSHIL K. MISRA, PhD *St.Louis*
PANAGIOTIS VASILOPOULOS, PhD *Montr.*

Associate Professors

LASZLO KALMAN, PhD *Szeged*
RAMESH C. SHARMA, PhD *Tor.*
JOSEPH SHIN, MSc *C'nell.*
VALTER ZAZUBOVITS, PhD *Tartu*

Assistant Professors

PABLO BIANUCCI, PhD *Texas (Austin)*
ALEXANDRE CHAMPAGNE, PhD *C'nell.*

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Richard J. Renaud Science Complex, Room: SP 365.02
514-848-2424, ext. 3270

Department Objectives

Breakthroughs in physics have revolutionized thinking about the fundamentals of matter, motion, and energy. Physics is the study of these fundamentals. The Physics Department is committed to preparing students for careers or advanced study in the theoretical, applied, and biological aspects of physics. Students in the co-op program gain valuable job experience and discover the career opportunities open to them in addition to regular course work.

Programs

Students are required to complete the appropriate entrance profile for entry into the program (see §31.002 — Programs and Admission Requirements — Profiles).

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

42 Core Program

- 6 MAST 218³, 219³
- 33 PHYS 232³, 236³, 245³, 252³, 253³, 334³, 335³, 354³, 367³, 377³, 435³
- 3 PHYS 291¹, 293¹, 297¹

69 BSc Honours in Physics

- 42 Core Program
- 6 PHYS 496⁶

Concentration in Physics

- 15 PHYS 345³, 355³, 358³, 468³, 478³
- 3 Chosen from PHYS 436³, 458³
- 3 Chosen from PHYS 290², 370³, 394¹, 440³, 498³

Concentration in Biophysics
12 BIOL 266³; PHYS 260³, 360³, 461³
9 Chosen from BIOL 261³, 340³, 367³, 371³; CHEM 235³, 271³, 431³; PHYS 345³, 358³, 370³, 440³, 462³, 463³

66 BSc Specialization in Physics

Option A: Physics

42 Core Program
18 PHYS 345³, 355³, 358³, 468³, 478³, 497³
3 Chosen from PHYS 436³, 458³
3 Chosen from PHYS 290², 370³, 394¹, 440³, 498³

66 BSc Specialization in Physics

Option B: Biophysics

42 Core Program
15 BIOL 266³; CHEM 271³; PHYS 260³, 360³, 497³
9 Chosen from BIOL 261³, 340³, 367³, 371³; CHEM 235³, 431³; PHYS 345³, 358³, 370³, 440³, 461³, 462³, 463³, 468³

45 BSc Major in Physics

42 Core Program
3 Chosen from any PHYS course in consultation with an advisor

PYHICS CO-OPERATIVE PROGRAM

Director

SUSHIL K. MISRA, Professor

The Physics co-operative program is offered to students who are enrolled in the BSc specialization programs in Physics. Students interested in applying for the Physics co-op should refer to §24 where a full description of the admission requirements is provided. Academic content is very similar to that of the regular programs, with some specific recommendations for courses to improve the students' job skills. While it is hoped that most of the positions will be in the Montreal area, students must be prepared to work in other parts of Canada.

Students are supervised personally and must meet the requirements specified by the Faculty of Arts and Science and the Institute for Co-operative Education in order to continue their studies in the co-op format.

Liaison between the student, the employers, and the Institute for Co-operative Education is provided by the Physics co-op committee, which includes the student's advisors.

Please refer to §24 for the schedule of study and work terms and the full description of admission requirements.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PYHS 200 From Particles to Galaxies (3 credits)

This course covers all the major topics in physics including Galileo's role in science, the Newtonian synthesis, optics radiation and absorption of heat, relativity, quantum mechanics, astrophysics and cosmology at a level that a non-science student can grasp. Students in this course are not required to do any mathematical problem solving.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

NOTE: Students who have received credit for this topic under a PHYS 298 or PHYZ 298 number may not take this course for credit.

PYHS 204 Mechanics (3 credits)

Prerequisite: MATH 203 or equivalent, previously or concurrently. Kinematics, Newton's laws of motion. Statics, dynamics. Conservation of momentum and energy. Rotational motion. Periodic motion. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration. See PHYS 224 for laboratory associated with this course.

PYHS 205 Electricity and Magnetism (3 credits)

Prerequisite: MATH 203; PHYS 204 or equivalent. Electrical charge and Coulomb's law. Electrical field and potential. Capacity, steady state, and transient currents. Electromagnetic induction and alternating currents. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration. See PHYS 225 for laboratory associated with this course.

PYHS 206 Waves and Modern Physics (3 credits)

Prerequisite: PHYS 204 or equivalent. Simple harmonic motion. Wave propagation. Superposition. Stationary waves. Doppler effect. Interference. Diffraction. Photoelectric effect. Compton effect. Bohr's atom. Radioactivity, fission, fusion. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration. See PHYS 226 for laboratory associated with this course.

PHYS 210 *Discoveries in Physics* (6 credits)

A non-mathematical course in physics specifically designed for students who have had little or no experience in physics. This course traces the fundamental ideas from which modern physics has emerged, and attempts to develop insights into the understanding of natural phenomena. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit.

PHYS 224 *Introductory Experimental Mechanics* (1 credit)

Prerequisite: PHYS 204 previously or concurrently, or permission of the Department. This laboratory course covers fundamental experiments in classical mechanics. Experiments include resolution of forces, centrifugal force and conservation of energy, pendulums. Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 225 *Introductory Experimental Electricity* (1 credit)

Prerequisite: PHYS 205 previously or concurrently, or permission of the Department. This laboratory course covers fundamental experiments in electricity. Experiments include Kirchhoff's law, resistors in series and parallel, oscilloscope, induction, alternating current. Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 226 *Introductory Experimental Waves and Modern Physics* (1 credit)

Prerequisite: PHYS 206 previously or concurrently, or permission of the Department. This laboratory course covers the fundamental experiments in waves and modern physics. Experiments include spectrometer measurements. Newton's rings and measurements involving radioactivity. Laboratory only, 10 experiments.

NOTE: Students in programs leading to the BSc degree may not take this course for credit to be applied to their program of concentration.

PHYS 232 *Methods of Theoretical Physics I* (3 credits)

Prerequisite: MAST 218 previously or concurrently. First-order differential equations, linear and separable equations, integrating factors, applications. Second-order linear differential equations. Fundamental solutions, linear independence, Wronskian. Nonhomogeneous equations, general solution, method of undetermined coefficients, variation of parameters, applications. Power-series solutions of differential equations, examples. Systems of first-order linear equations. Review of linear algebra, diagonalization of matrices, eigenvalues. Lectures only.

PHYS 235 *Object-Oriented Programming and Applications* (3 credits)

Prerequisite: MATH 203, 204. Introduction to problem solving with computers; programming. Basic elements of an object-oriented language; basic data types, objects, expressions, simple programs. Control structures; library functions, one- and two-dimensional arrays. Introduction to mathematics software (Maple and/or Mathematica) and to programming languages (C/C++ and/or Fortran 77). The material is illustrated with simple examples from physics.

NOTE: Students may replace this course with COMP 248.

NOTE: Students who have received credit for COMP 248 or PHYS 233 may not take this course for credit.

PHYS 236 *Numerical Analysis in Physics* (3 credits)

Prerequisite: PHYS 235 or COMP 248. Basic numerical analysis, symbolic and numerical computation and programming with a computer language and/or mathematics software program, curve fitting. Numerical solutions to linear and nonlinear ordinary and partial differential equations, difference equations. Gaussian elimination, LU decomposition, least-square approximation, linear systems of equations. Numerical differentiation and integration.

NOTE: Students may replace this course with MAST 334.

NOTE: Students who have received credit for MAST 334 may not take this course for credit.

PHYS 245 *Classical Mechanics* (3 credits)

Prerequisite: MATH 204, 205 or equivalent. Statics of rigid bodies, work and potential functions, motion in uniform field. Particle motion in an accelerated frame, rotation coordinate systems, motion in a resisting medium, small oscillations, damped (harmonic) motion, motion under central forces, mechanics of a rigid body, dynamics of systems of particles, motion of rigid bodies in three dimensions, elements of Lagrangian mechanics. Lectures only.

NOTE: See PHYS 291 for laboratory associated with this course.

NOTE: Students who have received credit for PHYS 243 or 244 may not take this course for credit.

PHYS 252 *Optics* (3 credits)

Prerequisite: PHYS 206. Wave equation, phasors, EM waves, linear, circular and elliptical polarization, polariscope, Malus' law, dichroism, polaroid, polarizing Prism, quarter and half wave plates, wave superposition, interference, Young's double slit experiment, Michelson interferometer, reflectance and transmittance of thin films, interferometers, dispersion, elements of Fourier analysis, diffraction, single slit diffraction, double slit, Fraunhofer and Fresnel limits, diffraction grating, Fresnel diffraction, instruments, introduction to lasers.

NOTE: Students who have received credit for PHYS 352 may not take this course for credit.

PHYS 253 *Electricity and Magnetism I* (3 credits)

Prerequisite: PHYS 205 or equivalent; MAST 218 or equivalent, previously or concurrently. Electrostatics, Gauss' law, electric potential, curl and divergence of fields, capacitance, RC circuits, Laplace's equation, Legendre equation, method of images, multipole expansion, dielectrics, polarization, dipole moments, electric displacement.

NOTE: See PHYS 293 for laboratory associated with this course.

PHYS 260 *Introductory Biophysics* (3 credits)

Cell physiology; macromolecules and molecular devices; transmission of genetic information; random walks, friction and diffusion; Reynolds number; entropy, temperature and free energy; entropic forces; chemical forces; self-assembly; membranes; active transport; nerve impulses. Overview of experimental techniques: X-ray crystallography; atomic force, electron and optical microscopies; patch-clamp techniques.

NOTE: Students who have received credit for this topic under a PHYS 298 number may not take this course for credit.

PHYS 270 *Introduction to Energy and Environment* (3 credits)

This course is designed for students who have little or no background in physics. Topics covered include relationship of physics to environment and energy. Concept and definition of work and energy. Interaction of people and inanimate objects with the environment. Heat and chemical energy. Electromagnetic and nuclear energy. Conservation of energy — how it affects everyday life. Sources of energy used on Earth. Solar energy. Production of wind power, water power, solar cells from sun's energy, biological uses, biopower. Lectures only.

NOTE: Students in programs leading to the BSc degree may not take this course for credit.

PHYS 273 *Energy and Environment* (3 credits)

Prerequisite: PHYS 270, or six credits in Cegep Physics, or equivalent. Nuclear energy stored in the earth. Geothermal energy. Biological energy stored in the earth. Second law of thermodynamics. Entropy. Food energy. Home heating and cooling. Solar heating. Transportation of people, goods, and energy. Recycling materials. Resource conservation and humanity's ability to change — need for a conservation ethic, need for alternate energy sources, need for public knowledge. Lectures only.

PHYS 290 *Experimental Electronics* (2 credits)

Prerequisite: PHYS 205, 225 or equivalent. A practical laboratory course in electronics. This course explores the usage of electronic measuring instruments and components. Experiments include power supplies, transistor amplifiers, operational amplifiers, oscillators, audio and radio frequency amplifiers.

NOTE: Students who have received credit for PHYS 295 and 296 may not take this course for credit.

PHYS 291 *Experimental Mechanics I* (1 credit)

Prerequisite: PHYS 245 previously or concurrently. A laboratory course in mechanics. Experiments include pendulum, coefficient of restitution, centrifugal force, rotational inertia, inelastic impact.

PHYS 292 *Experimental Mechanics II* (1 credit)

Prerequisite: PHYS 291. A laboratory course in mechanics. Experiments include the use of air tracks to study acceleration, collisions, dissipative forces, and periodic motion. Other experiments include viscosity and surface tension of liquids.

PHYS 293 *Experimental Electricity and Magnetism I* (1 credit)

Prerequisite: PHYS 253 previously or concurrently. A laboratory course in electricity and magnetism. Experiments include motion of electrons in electric and magnetic fields, exponential relaxation, damped oscillations, resonance, non-linearity, negative resistance.

PHYS 294 *Experimental Electricity and Magnetism II* (1 credit)

Prerequisite: PHYS 293. A laboratory course in electricity and magnetism. Experiments include the transistor, amplification and frequency response, transient response and negative feedback, positive feedback and oscillation, periodic structures.

PHYS 295 *Experimental Electronics I* (2 credits)

A practical laboratory course in electronics. Experiments include resistors in series and parallel, voltmeter, Ohm's law, Kirchhoff's current and voltage laws, Ohmmeter, capacitor, inductor, transformer, rectifiers, voltage doubler, zener diode, power supplies.

NOTE: Students who have received credit for PHYS 290 may not take this course for credit.

PHYS 296 *Experimental Electronics II* (2 credits)

Prerequisite: PHYS 295. A practical laboratory course in electronics. Experiments include oscilloscope, biasing of bipolar transistors, transistor amplifiers, voltage and current regulators, field-effect transistor, oscillators, operational amplifier circuits, audio amplifier, I-F transformer, limiter, amplitude and frequency modulation.

NOTE: Students who have received credit for PHYS 290 may not take this course for credit.

PHYS 297 *Experimental Optics* (1 credit)

Prerequisite: PHYS 252 previously or concurrently. An experimental course in optics. Experiments include diffraction, optical instruments, resonance, and various experiments using lasers. Laboratory only, 10 experiments.

NOTE: Students who have received credit for PHYS 392 may not take this course for credit.

PHYS 298 Selected Topics in Physics (3 credits)

PHYS 299 Selected Topics in Physics (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHYS 334 Thermodynamics (3 credits)

Prerequisite: PHYS 204 or equivalent; MAST 218, 219 or equivalent. Equation of state, ideal and real gases, thermodynamic surfaces, first law of thermodynamics, isothermal and adiabatic processes, the energy equation, liquefaction of gases, Carnot engine, second law of thermodynamics, entropy, third law, thermodynamic potentials, Clausius-Clapeyron equation, kinetic theory, equipartition of energy, Van der Waals' equation, transport phenomena, probability and thermal distributions. Lectures only.

NOTE: See PHYS 393 for laboratory associated with this course.

PHYS 335 Methods of Theoretical Physics II (3 credits)

Prerequisite: PHYS 232 or equivalent; MAST 219 previously or concurrently. Function of a complex variable, Fourier series, applications to a vibrating string, heat conduction, Fourier transform, Laplace transform, application to differential equations, delta functions, eigenvalue problems. Lectures only.

PHYS 345 Advanced Classical Mechanics (3 credits)

Prerequisite: PHYS 232 or equivalent; PHYS 245 or equivalent; MAST 219. Survey of Newtonian mechanics; D'Alembert's principle and Lagrangian formulation; variational formulation and Hamilton's principle. Hamiltonian formulation, canonical transformations, Poisson brackets (connection to quantum mechanics); central force motion; planetary motion; scattering in a central field, dynamics of rigid bodies; Euler's equations; Hamilton-Jacobi theory, applications. Introduction to non-linear mechanics.

NOTE: Students who have received credit for PHYS 346 may not take this course for credit.

PHYS 354 Electricity and Magnetism II (3 credits)

Prerequisite: PHYS 253 or equivalent; MAST 219 or equivalent, previously or concurrently. Biot-Savart Law, Ampere's law, divergence and curl of B, magnetic vector potential, magnetization, ferromagnetism, electromagnetic induction, motional EMF, inductance, transformer, ac-circuits, Maxwell's equations, the wave equation, polarization, reflection and transmission of em waves, rectangular wave guide, half-wave antenna. Lectures only.

NOTE: Students who have received credit for PHYS 254 may not take this course for credit.

PHYS 355 Electronics (3 credits)

Prerequisite: PHYS 358 recommended. Basic circuit analysis, network theorems, maximum power transfer, diode characteristics and circuits, power supply designs, transistor characteristics, incremental equivalent circuits, input and output impedance calculations, emitter follower and Darlington amplifiers, power amplifiers, dc stabilization and negative feedback, operational amplifiers, phase detection, frequency multiplier and special circuits. Lectures only.

NOTE: See PHYS 290 for laboratory associated with this course.

PHYS 358 Solid State Physics (3 credits)

Prerequisite: PHYS 377 concurrently. Drude and Sommerfeld theory of metals, crystal lattices, reciprocal lattice, electron levels in periodic potentials, tight-binding method, semiclassical model of electron dynamics and of conduction in metals, relaxation-time approximation, Boltzmann equation, homogeneous semiconductors, lattice vibrations, Fermi surface, cohesive energy.

PHYS 360 Chemical Aspects of Biophysics (3 credits)

Prerequisite: PHYS 253, 334. Stabilizing protein structures; bonding and nonbonding interactions; energy profiles; Ramachandran plot; stabilization through protonation-deprotonation. Interaction of macromolecules with solvents. Thermodynamics of protein folding. Ligand binding, Marcus-theory of biological electron transfer. Examples of modern biophysical techniques: electronic spectroscopies (absorption, fluorescence), X-ray absorption spectroscopy, NMR and EPR spectroscopy, IR and Raman spectroscopy, circular dichroism, differential scanning calorimetry.

NOTE: Students enrolled in a BSc Honours or Specialization in Biochemistry may not take this course for credit.

PHYS 367 Modern Physics and Relativity (3 credits)

Prerequisite: PHYS 205, 206 or equivalent; PHYS 354 recommended. *Relativity*: Lorentz transformations (revision), space-time and four-tensors, Minkowski map of space-time, four-velocity and four-acceleration, four-momentum, equivalence of mass and energy, angular momentum, three- and four-force, formal structure of Maxwell's theory, transformation of E and B, electromagnetic energy tensor. *Atomic Physics*: Introduction to the theory of blackbody radiation, the photoelectric effect, the Compton effect, De Broglie's postulate, Bohr's postulates, Bohr's and Sommerfeld's model, Schrödinger's quantum mechanics, Schrödinger's equation, Bohr's interpretation of the wavefunctions, expectation values, time-independence, eigenfunctions and eigenvalues, energy quantization; solutions of the time-independent Schrödinger's equation free particle, and simple one-dimensional potentials.

NOTE: See PHYS 394 for laboratory associated with this course.

PHYS 370 Nonlinear Dynamics/Chaos/Fractals (3 credits)

Prerequisite: PHYS 232 or equivalent. One-dimensional flows and maps, bifurcations, two-dimensional flows and maps, phase plane and limit cycles. Lorenz equations, strange attractors, chaos and nonlinearity, deterministic chaos, period doubling, experimental manifestations. Fractals, fractal dimension, examples of chaos and of fractals. Applications in physics, biology, chemistry, and engineering.

NOTE: Students who have received credit for this topic under a PHYS 498 number may not take this course for credit.

PHYS 377 *Quantum Mechanics I* (3 credits)

Prerequisite: PHYS 335, 345, 367. Schrödinger equation, probabilistic interpretation, normalization, expectation values, the uncertainty principle, stationary states, the free particle, infinite square well, the finite square well, the harmonic oscillator, the delta potential, the scattering matrix, vector spaces, postulates of quantum mechanics, operators and eigenvectors, compatible observables, the uncertainty relations, time-evolution of states, Ehrenfest's equations, the variational principle, nondegenerate time-independent perturbation theory, degenerate perturbation theory, spherical coordinates and the hydrogen atom, angular momentum, spin, addition of angular momenta.

NOTE: Students who have received credit for PHYS 477 may not take this course for credit.

PHYS 384 *Introduction to Astronomy* (3 credits)

Prerequisite: PHYS 205 or equivalent; MATH 205 or equivalent. The celestial sphere. The solar system. Celestial mechanics. Basic stellar characteristics. The galaxy — structure and content. Extragalactic objects. Lectures only.

PHYS 385 *Astrophysics* (3 credits)

Prerequisite: PHYS 384. The stars, stellar atmospheres, motion, interiors, and populations. Variable stars. Nebulae. Radio, X-ray, and infrared sources. The galaxy — population and dynamics. The extragalactic universe. Lectures only.

PHYS 390 *Experimental Digital Electronics* (3 credits)

Prerequisite: PHYS 296 or equivalent. Breadboarding digital circuits; gating a signal; truth tables; decade counter; decoders, demultiplexers, multiplexers and sequencers; light-emitting diodes and LED displays; tristate and open collector outputs; flip-flops, monostable multivibrators; semiconductor memories; registers, binary counters, arithmetic logic units. Laboratory only.

NOTE: Students who have received credit for PHYS 396 may not take this course for credit.

PHYS 391 *Introduction to Experimental Microprocessors and Assembly Language Programming* (3 credits)

Prerequisite: PHYS 235; COMP 212 or equivalent. Eight-bit microprocessor architecture: opcodes, addressing modes, memory mapped I/O, vectored interrupts, etc. The MS/DOS operating system, word processing, Motorola assembly language: pseudocodes, labels, sub-routines, interrupt service routines, structured programming techniques. Cross assemblers, RS232 serial transmission of ASCII and binary data to remote computers. Laboratory only.

NOTE: Students who have received credit for PHYS 396 may not take this course for credit.

PHYS 392 *Experimental Medical Electronics* (3 credits)

Prerequisite: PHYS 290 or 296, or equivalent. A laboratory course in the maintenance and use of medical instruments, including ECG monitor, electrocardiograph, cardio-tachometer, blood-pressure recorder, respiration-rate recorder, and clinical thermometer. The component parts of the instruments are studied first, and then the instruments are constructed and tested. Laboratory only.

NOTE: Students who have received credit for PHYS 397 may not take this course for credit.

PHYS 393 *Experimental Thermodynamics* (1 credit)

Prerequisite: PHYS 334 previously or concurrently. A laboratory course in thermodynamics. Experiments include Clement and Desormes' experiment, vaporization, specific heats, liquid nitrogen boiling. Laboratory only, 10 experiments.

NOTE: Students who have received credit for PHYS 494 may not take this course for credit.

PHYS 394 *Experimental Atomic Physics* (1 credit)

Prerequisite: PHYS 226 or equivalent, or permission of the Department. An experimental course in atomic physics. Experiments include the Frank-Hertz experiment, the Zeeman effect, mass spectrometer, and some X-ray work. Laboratory only, 10 experiments.

PHYS 398 *Selected Topics in Physics* (3 credits)**PHYS 399 *Selected Topics in Physics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

PHYS 435 *Statistical Physics* (3 credits)

Prerequisite: PHYS 334, 367. Statistical concepts, probability, Gaussian probability distribution, statistical ensemble, macrostates and microstates, thermodynamic probability, statistical thermodynamics, reversible and irreversible processes, entropy, thermodynamic laws and statistical relations, partition functions, Maxwell's distributions, phase transformation, Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics, quantum statistics in classical limit, black-body radiation, conduction of electrons in metal, interacting particle system, lattice vibrations, virial coefficients, Weiss molecular field approximation, Kinetic theory of gases, Boltzman equation. Lectures only.

PHYS 436 *Methods of Theoretical Physics III* (3 credits)

Prerequisite: PHYS 335 or equivalent. Partial differential equations, eigenfunction expansion and finite transforms, Laplace, Poisson, wave and diffusion equations, applications, special functions, boundary value problems, Sturm-Liouville theory, Bessel functions, Legendre and Hermite polynomials, spherical harmonics, Green's function and applications, perturbation theory, variational theory. Lectures only.

PHYS 440 *Computational Methods and Simulations in Physics* (3 credits)

Prerequisite: PHYS 232, 334, 377. The first part of the course fully develops the UNIX/Fortran/C code for problem solving through direct experience with problems in mechanics, electromagnetism, and quantum mechanics. Applications include finite square well,

simple pendulum, charge distribution, phase space, anharmonic oscillator, vibrating string, etc. The second part of the course introduces the Monte Carlo and molecular dynamics methods, first-principles calculations for materials, electronic properties, electrodynamics and electrical circuit simulations, and biophysics simulations.

PHYS 458 Advanced Electrodynamics (3 credits)

Prerequisite: PHYS 354, 436. Electrostatic boundary-value problem and Green's function, Maxwell's equation, energy-momentum tensor, guided waves, dielectric wave guides, fibre optics, radiation static field, multipole radiation, velocity and acceleration field, Larmor's formula, relativistic generalization, radiating systems, linear antenna, aperture in wave guide, Thomson scattering, bremsstrahlung, Abraham-Lorentz equation, Breit-Wigner formula, Green's function for Helmholtz's equation, Noether's theorem. Lectures only.

PHYS 461 Membrane Biophysics (3 credits)

Prerequisite: BIOL 266; PHYS 360. Fluid dynamics; composition of natural membranes; selection criteria for artificial membranes; phases and phase transitions of lipids; lipid-protein interactions; transport mechanisms across membranes; facilitated diffusion, Michaelis-Menten equation, ion channels, active transport against a concentration gradient, ATPase; origin of membrane potentials; electrogenic ion pumps; experimental methods to measure membrane potentials (patch clamp, optical, radioactive); resting and action potentials.

PHYS 462 Bioenergetics (3 credits)

Prerequisite: PHYS 360, 461. Chemiosmotic energy transduction, ion transport across energy conserving membranes, quantitative bioenergetics: measurement of driving forces. Chemiosmotic proton circuit, respiratory chains, photosynthesis, photosynthetic generators of proton motive force, coupling between biological electron and proton transfer reactions, ATP synthase, metabolite and ion transport, mitochondria in the cell.

PHYS 463 Optical Spectroscopy with Biophysics Applications (3 credits)

Prerequisite: PHYS 377. Beer-Lambert Law, absorption; fluorescence; pump-probe; photon echo, IR and Raman spectroscopies; linear and circular dichroism; single molecule spectroscopy; spectral hole burning and fluorescence line narrowing. Relevant concepts of quantum mechanics (time-dependent and time-independent Schrödinger equation, spatial wavefunctions, transitions between states and time-dependent perturbation theory, lifetimes and uncertainty principle). Atomic and molecular orbitals. Some concepts related to symmetry and group theory. Resonance energy transfer. Optical properties of molecular aggregates.

PHYS 468 Condensed Matter and Nanophysics (3 credits)

Prerequisite: PHYS 358; PHYS 377 previously or concurrently. Review of phonon modes and electron band structure. Quantum condensed-matter topics: Hartree-Fock, mesoscopic quantum transport theory (quantum dots, 1D systems, 2D systems), superconductivity, the quantum Hall effects, and weak localization.

NOTE: Students who have received credit for PHYS 467 may not take this course for credit.

PHYS 470 Nonlinear Waves (3 credits)

Prerequisite: PHYS 335. Linear stability analysis and limitations, modulated waves and nonlinear dispersion relations. Korteweg-de Vries, sine-Gordon, and nonlinear Schrödinger equations. Hydro-dynamic, transmission-line, mechanical, lattice, and optical solitons. Applications in optical fibres, Josephson junction arrays. Inverse scattering method, conservation laws.

PHYS 478 Quantum Mechanics II (3 credits)

Prerequisite: PHYS 377. Particle states, classification of symmetry, parity, numerical solution of Schrödinger's equation, WKB approximation, variational method, alpha decay probability, time-dependent perturbation theory, systems of particles in one dimension, interacting particles, identical particles, Pauli exclusion Principle, Motion in three dimensions, hydrogen atom, angular momentum and spin, Pauli spin matrices, Dirac's relativistic wave equation.

PHYS 480 Directed Readings in Theoretical Physics (3 credits)

Prerequisite: Permission of the Department. A course for advanced students in which a special topic, selected in consultation with a faculty member, is studied in depth.

PHYS 488 Lasers and Fibre-optics (3 credits)

Prerequisite: PHYS 252, 354. Semiconductor physics, semiconductor sources, detectors, waveguides and fibres, optical communications, assorted topics in electro-optics.

NOTE: Students who have received credit for this topic under a PHYS 498 number may not take this course for credit.

PHYS 491 Experimental Microprocessor Interfacing (3 credits)

Prerequisite: PHYS 390; PHYS 391 or equivalent. Address decoding, multiplexing, and demultiplexing with TTL integrated circuits. Address decoding circuits, drivers, and receivers. Parallel, serial and non-TTL I/O. Breadboarding, wire-wrapping, and soldering techniques. The use of oscilloscopes, logic probes, and computers for circuit trouble-shooting. Drawing schematic diagrams. Timing diagrams. Data sheets. Laboratory only.

PHYS 494 Methods of Experimental Physics (3 credits)

Prerequisite: PHYS 290, 293, 394 or equivalent, or permission of the Department. A supervised research project which may include experiments in nuclear physics, laser and fibre-optics, solid state physics, ultrasonics, or thermal physics. A technical report is required.

PHYS 495 *Experimental Nuclear Physics* (1 credit)

Prerequisite: PHYS 394. A laboratory course in nuclear physics. Experiments include gamma- and beta-ray spectroscopy, nuclear magnetic resonance, half-life determination, nuclear activities. Laboratory only, 10 experiments.

PHYS 496 *Honours Research Project* (6 credits)

Prerequisite: Enrolment in Honours in Physics; permission of the Department. A research project for honours students that is carried out on a special topic in physics, biophysics, or applied physics under the supervision of a faculty member.

PHYS 497 *Specialization Research Project* (3 credits)

Prerequisite: Enrolment in the Specialization in Physics; permission of the Department. This is an independent studies course for advanced specialization students in which a special topic in physics, biophysics, or applied physics is studied under the supervision of a faculty member. The student is required to write a report and give a brief presentation.

PHYS 498 *Advanced Topics in Physics* (3 credits)

PHYS 499 *Advanced Topics in Physics* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.240

POLITICAL SCIENCE

Faculty

Chair

CSABA NIKOLENYI, PhD Br.Col., Professor

Associate Chair

JAMES KELLY, PhD McG., Associate Professor

Distinguished Professors Emeriti

HENRY HABIB, PhD McG.

JAMES MOORE, MA Tor.

Professors

HAROLD R. CHORNEY, PhD Tor.

MARCEL DANIS, LLL Montr.

HORST HUTTER, PhD Stan.

BROOKE JEFFREY, PhD Car.

GUY LACHAPELLE, PhD Northwestern

MABEN POIRIER, PhD McG.

NORRIN M. RIPSMAN, PhD Penn.

DANIEL SALÉE, PhD Montr.

PETER STOETT, PhD Qu.

Associate Professors

ANTOINE BIODEAU, PhD Tor.

ELIZABETH A. BLOODGOOD, PhD Prin.

GRAHAM DODDS, PhD Penn.

AXEL HUELSEMEYER, PhD Calg.

MEBS KANJI, PhD Calg.

EDWARD KING, PhD Calif.(Berkeley)

MICHAEL LIPSON, PhD Wis.(Madison)

KIMBERLEY MANNING, PhD Wash.

PATRIK MARIER, PhD Pitt.

JEAN-FRANÇOIS MAYER, PhD Penn.State

STEPHANIE PATERSON, PhD Car.

AMY POTEETE, PhD Duke

FRANCESCA SCALA, PhD Car.

LEANDER SCHNEIDER, PhD Col.

JULIAN SCHOFIELD, PhD Col.

TRAVIS SMITH, PhD Harv.

MARLENE SOKOLON, PhD N.Ill.

Assistant Professors

CEREN BELGE, PhD Wash.

TINA HILGERS, PhD York (Can.)

Lecturer

RICHARD BISAILLON, PhD C'dia.

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Hall Building, Room: H 1225-22

514-848-2424, ext. 2105

Department Objectives

The Department of Political Science offers a wide range of courses and programs to acquaint students with the living complexity of contemporary government and politics. The curriculum provides the theoretical foundations, analytical skills, and research methods for understanding the construction of government policy as well as the underlying nature and purpose of political processes and institutions. The aim is to prepare well-rounded, concerned citizens for careers in the public service and the private sector, or for graduate or law school.

Programs

The Department of Political Science offers the following programs of study: an honours, a major, and a minor. Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

Students must apply to the departmental honours advisor for formal admission to either option of the honours program. Applications are due by May 15 for September admission and by November 15 for January admission. The number of places available in the Political Science Honours program is limited, and admission to the program is highly competitive. Students must have a cumulative GPA of at least 3.5 to be eligible to apply. If admitted, they must maintain an annual GPA of at least 3.5 to graduate with honours. In order to maintain honours status, students must obtain approval for their programs from the honours advisor each year, prior to registration.

The program of courses leading to a Minor in Political Science consists of 24 credits in the Department. The minor is designed to provide an opportunity for students to make a combination with a specialization, a major, or honours in another discipline. A student's minor will be arranged in consultation with the Department of Political Science so that it relates to courses in the major area of study.

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Option A

60 BA Honours in Political Science

- 15 POLI 203³, 204³, 205³, 206³, 207³
6 Chosen from POLI 306³, 345³, 364³, 371³, 373³, 384³
3 Chosen from POLI 393³ or 372^{6*}
33 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with a minimum of 12 credits at the 400 level
3 POLI 496³ (*Honours Seminar*)

*Students who opt to take POLI 372 are given three credits towards the 33-credit requirement in the Political Theory Group.

Option B

60 BA Honours (Thesis) in Political Science

- 15 POLI 203³, 204³, 205³, 206³, 207³
6 Chosen from POLI 306³, 345³, 364³, 371³, 373³, 384³
3 Chosen from POLI 393³ or 372^{6*}
3 POLI 396³ (*Honours Tutorial*)
24 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with a minimum of nine credits at the 400 level
6 POLI 495⁶ (*Honours Thesis*)
3 POLI 496³ (*Honours Seminar*)

*Students who opt to take POLI 372 are given three credits towards the 24-credit requirement in the Political Theory Group.

42 BA Major in Political Science

- 15 POLI 203³, 204³, 205³, 206³, 207³
27 Chosen from at least three of the five groups in Political Science at the 300 or 400 level with at least six credits at the 400 level

24 Minor in Political Science

- 12 POLI 203³, 204³, 205³, 206³
12 Chosen from any of the five groups in Political Science. A minimum of nine credits must be taken at the 300 or 400 level.

24 Minor in Human Rights Studies

- 6 PHIL 241³; POLI 214³
18 Chosen from ENGL 369³, 380³, 382³, 383³, 387³; FPST 321³; HIST 315³, 359³, 477³; HIST 360³ or SOCI 367³; JOUR 442³; PHIL 232³, 342³, 343³, 345³; POLI 301³, 388³; RELI 310³, 312³; SOCI 380³ or ANTH 380³; THEO 343³

NOTE: For details on the course descriptions in the program listed above, please refer to the individual departmental course listings.

Core Program

- POLI 203 Introduction to Comparative Politics (3 credits)
POLI 204 Introduction to Canadian Politics (3 credits)
POLI 205 Introduction to International Relations (3 credits)
POLI 206 Introduction to Western Political Theory (3 credits)
POLI 207 Introduction to Political Science Research (3 credits)
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Group 1: International Politics

- POLI 213 Contemporary Issues in Global Politics (3 credits)
POLI 214 Human Rights: An Overview (3 credits)
POLI 215 Global Politics (3 credits)
POLI 216 Introduction to the United Nations (3 credits)
POLI 301 Social Movements and Protest Politics (3 credits)
POLI 302 International Security (3 credits)
POLI 304 Theories of Foreign Policy Making (3 credits)
POLI 305 International Political Economy (3 credits)
POLI 311 International Public Law (3 credits)
POLI 312 Special Topics in International Politics (3 credits)
POLI 315 International Organizations (3 credits)
POLI 318 Introduction to Strategic Studies (3 credits)
POLI 329 American Foreign Policy (3 credits)
POLI 332 Theories of International Relations (3 credits)
POLI 342 Asia and Power Politics (3 credits)
POLI 388 Human Rights and International Justice (3 credits)
POLI 391 Middle East and Global Conflict (3 credits)
POLI 394 Globalization and Sustainable Development (3 credits)
POLI 400 Advanced Seminar in International Relations Theory (3 credits)
POLI 402 Advanced International Political Economy (3 credits)
POLI 403 Global Ecopolitical Analysis (3 credits)
POLI 404 International Institutions (3 credits)
POLI 419 Strategic Studies (3 credits)
POLI 421 Transnational Politics (3 credits)
POLI 422 Canadian Foreign Policy (3 credits)
POLI 423 Peace Studies and Global Governance (3 credits)
POLI 486 Advanced Seminar in International Relations (3 credits)
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Group 2: Comparative Politics

- POLI 214 Human Rights: An Overview (3 credits)
POLI 217 Comparing Democracies (3 credits)
POLI 301 Social Movements and Protest Politics (3 credits)
POLI 310 Politics of the U.S. (3 credits)
POLI 313 Special Topics in Comparative Politics (3 credits)
POLI 319 European Politics and Government (3 credits)
POLI 323 Politics of Eastern Europe (3 credits)
POLI 327 Comparative Democratization (3 credits)
POLI 328 Public Policy and the Politics of Equality (3 credits)
POLI 331 Comparative Party Systems (3 credits)
POLI 333 Politics of Russia (3 credits)
POLI 335 Politics of China (3 credits)
POLI 336 Politics of South Asia (3 credits)
POLI 337 Politics of Japan (3 credits)
POLI 342 Asia and Power Politics (3 credits)
POLI 352 Comparative Urban Politics and Government (3 credits)
POLI 366 Politics of Africa (3 credits)
POLI 375 Nationalism: Origins, Operation, and Significance (3 credits)
POLI 379 Politics of Latin America (3 credits)
POLI 395 Politics of the Middle East (3 credits)
POLI 405 Comparative Electoral Systems (3 credits)
POLI 406 Comparative Federalism and Political Integration (3 credits)
POLI 431 State-Society Relations in China (3 credits)
POLI 432 Comparative Public Administration and Bureaucracy (3 credits)

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- POLI 481** Issues in Western European Politics (3 credits)
POLI 483 State and Society in Latin America (3 credits)
POLI 484 Post-Communist Democracies (3 credits)
POLI 485 Issues in Development and Democracy (3 credits)
POLI 487 Advanced Seminar in Comparative Politics (3 credits)
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Group 3: Canadian and Quebec Politics

- POLI 309** Women and Politics in Canada (3 credits)
POLI 314 Special Topics in Canadian and Quebec Politics (3 credits)
POLI 324 Parliament and the Charter (3 credits)
POLI 334 Political Participation in Canada (3 credits)
POLI 339 Quebec Politics and Society/La vie politique québécoise (3 credits)
POLI 340 Canadian Political Culture (3 credits)
POLI 341 Provincial and Territorial Politics (3 credits)
POLI 350 Canadian and Quebec Law (6 credits)
POLI 351 Canadian Federalism (3 credits)
POLI 356 Canadian Political Parties (3 credits)
POLI 363 Issues in Canadian Public Policy (3 credits)
POLI 365 Canadian Public Administration (3 credits)
POLI 367 Quebec Public Administration (3 credits)
POLI 393 Advanced Empirical Research Methods (3 credits)
POLI 407 Parliamentary Bills of Rights (3 credits)
POLI 408 Public Opinion and Public Policy (3 credits)
POLI 409 Canada: State/Society Relations (3 credits)
POLI 428 Constitutional Politics in Canada (3 credits)
POLI 429 Political Socialization in Canadian and Comparative Perspective (3 credits)
POLI 488 Advanced Seminar in Canadian and Quebec Politics (3 credits)
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Group 4: Public Policy and Administration

- POLI 212** Politics and Economy (3 credits)
POLI 316 Special Topics in Public Policy and Administration (3 credits)
POLI 320 Development of Western Legal Systems (3 credits)
POLI 327 Comparative Democratization (3 credits)
POLI 328 Public Policy and the Politics of Equality (3 credits)
POLI 349 Political and Social Theory and the City (3 credits)
POLI 352 Comparative Urban Politics and Government (3 credits)
POLI 353 Principles of Public Policy (3 credits)
POLI 361 Advocacy Groups and Public Policy (3 credits)
POLI 362 Policy Analysis and Program Evaluation (3 credits)
POLI 363 Issues in Canadian Public Policy (3 credits)
POLI 365 Canadian Public Administration (3 credits)
POLI 367 Quebec Public Administration (3 credits)
POLI 393 Advanced Empirical Research Methods (3 credits)
POLI 410 Environmental Policy in the Developing World (3 credits)
POLI 411 Gender and Public Policy (3 credits)
POLI 412 Comparative Social Policy (3 credits)
POLI 413 Theories and Practices of Governance (3 credits)
POLI 432 Comparative Public Administration and Bureaucracy (3 credits)
POLI 463 Government and Business in Canada (3 credits)
POLI 489 Advanced Seminar in Public Policy and Administration (3 credits)
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Group 5: Political Theory

- POLI 306** Classical Political Thought (3 credits)
POLI 317 Special Topics in Political Theory (3 credits)
POLI 345 Contemporary Political Philosophy (3 credits)
POLI 349 Political and Social Theory and the City (3 credits)
POLI 364 Hellenistic, Roman, Medieval Political Philosophy (3 credits)
POLI 368 Media, Technology and Politics (3 credits)
POLI 371 Early Modern Political Philosophy (3 credits)
POLI 372 Political Science and Scientific Method (6 credits)
POLI 373 Late Modern Political Philosophy (3 credits)

- POLI 384 Principles of Political Theory (3 credits)
POLI 386 Contemporary Liberalism and Its Critics (3 credits)
POLI 389 Religion and Politics (3 credits)
POLI 401 American Political Thought (3 credits)
POLI 414 Authors of Political Imagination (3 credits)
POLI 415 Modern Political Theory and Religion (3 credits)
POLI 416 Ancient Political Texts (3 credits)
POLI 417 Governance (3 credits)
POLI 418 Machiavelli (3 credits)
POLI 425 Foundations of Liberalism (3 credits)
POLI 426 Nietzsche (3 credits)
POLI 427 Political Thought of the Enlightenment (3 credits)
POLI 430 Scientism, Ideology and Liberalism (3 credits)
POLI 433 Critics of Modernity (3 credits)
POLI 490 Advanced Seminar in Political Theory (3 credits)
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Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.: Explanation of course numbers and the core program:

1. Political Science Honours and Major students should normally complete the 15-credit core program in their first year of full-time equivalent studies. Mature Entry Program (MEP) and Extended Credit Program (ECP) students must consult an academic advisor regarding the completion of the 15-credit core.
2. Courses at the 200 and 300 level are open to all students in other departments and Faculties.
3. Courses at the 400 level are taught as seminars and are generally open to students enrolled in a Political Science program who have successfully completed 60 credits.

POLI 202 *Introduction to Political Science* (3 credits)

This course seeks to develop a broad basis from which to pursue further political inquiry. It offers an introductory examination of basic ideas regarding the state, power, authority, and systems of government. The course examines the diverse approaches to the specific study of political phenomena and provides a fundamental understanding of political concepts.

NOTE: Students who have received credit for POLZ 202 may not take this course for credit.

POLI 203 *Introduction to Comparative Politics* (3 credits)

This course introduces students to the main concepts of comparative political analysis. Major topics include different types of governmental systems and institutions, regime types, electoral systems and political parties, state-society relations, political economy, nationalism, democratization, globalization, and other types of political transformations. By examining several different countries, students gain an understanding of the great diversity of political life and the many ways in which politics affects citizens.

POLI 204 *Introduction to Canadian Politics* (3 credits)

This course is a basic introduction to the fundamental issues of Canadian public life and the federal political system. It presents an overview of the constitution, institutions, political parties, electoral system, interest groups, and public opinion that represent the essential components of Canada's political culture and government.

POLI 205 *Introduction to International Relations* (3 credits)

This course introduces the principal themes, terms, concepts, and debates in the contemporary study of international relations. It provides an historical analysis of global politics and international economy.

POLI 206 *Introduction to Western Political Theory* (3 credits)

This course introduces students to the study of Western political theory through a variety of primary source readings. Assigned texts may be drawn from philosophy, history, literature and other forms of political writing.

POLI 207 *Introduction to Political Science Research* (3 credits)

This course demonstrates how research is conducted in political science. Students learn how to develop a research design. The course introduces them to various research methodologies and provides several approaches for reporting and presenting research.

NOTE: Students who have received credit for POLI 392 may not take this course for credit.

POLI 209 *Public Security and Terrorism* (3 credits)

This course provides an overview of modern terrorism and its evolution, focusing on terrorist movements, groups, and incidents in many parts of the world over time. Students gain an understanding of the theory behind terrorism, its roots, goals, and ideologies, as well as its relation to governments, the media, and the public.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 212 *Politics and Economy* (3 credits)

This course is a general introduction to the interaction between politics and economy. It focuses on the impact of international and national economic structures on domestic political systems.

POLI 213 *Contemporary Issues in Global Politics* (3 credits)

This course introduces students to major trends and issues in world politics, such as human rights, refugees, ethnic conflict, environmental degradation, migration, and the peacekeeping role of the U.N.

NOTE: Students who have received credit for POLZ 213 may not take this course for credit.

POLI 214 *Human Rights: An Overview* (3 credits)

This course introduces students to the historical origins of the concept of human rights; the international regime and the acceptance of several generations of rights such as civil and political rights, economic rights, group rights, and women's rights; the critiques of universalism and the problems of implementation of human rights.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 215 *Global Politics* (3 credits)

This course introduces students to several theoretical perspectives related to global politics, and then examines current events. The focus is on conflict resolution, the impact of globalization, the roles of international organizations, and information technology.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 216 *Introduction to the United Nations* (3 credits)

This course examines the operations and issues of the United Nations organization. It covers the operation of the Security Council and other components of the United Nations. It surveys micro-issues such as routine operations, the internal bureaucracy, the ethics of its procedures, and its historical background.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 217 *Comparing Democracies* (3 credits)

This course introduces students to the field of comparative politics by examining the institutional structures of established advanced industrial democracies. Particular emphasis is placed on the study of constitutions; the legislative, executive, and the judicial branches of government; and the electoral and party systems.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 219 *Governance and Organized Crime* (3 credits)

This course examines the history, legal processes and the role played by governmental security structures such as the police and the bureaucracy, as well as the international agencies that combat organized crime. To begin with, this course describes and defines organized crime and provides an overview of different theories and models explaining organized crime. Furthermore, the course focuses on certain specific issues such as drug trafficking, prostitution, racketeering, smuggling, and economic crimes. Different types of organized crime groups such as Asian gangs, the Mafia, and outlaw motorcycle gangs — the Hells Angels in particular — are also discussed. Finally, the course examines particular cases of terrorism and structures of governance and how they relate to organized crime.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 285 *Introduction to Law and Society* (3 credits)

This interdisciplinary course examines the roles law plays in society in Canada and internationally, from the perspectives of history, political science, anthropology, sociology, and philosophy.

NOTE: Students who have received credit for ANTH 285, HIST 285, or SOCI 285, or for this topic under an ANTH 298, HIST 298, POLI 298, or SOCI 298 number, may not take this course for credit.

POLI 298 *Selected Topics in Political Science* (3 credits)**POLI 299 *Selected Topics in Political Science*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 301 *Social Movements and Protest Politics* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course examines the ideas, organization, and actions of such social movements as environmentalism, peace, human rights, labour, feminism, and antiglobalization. Theories of social movement mobilization, influence across national contexts, and the politics of protest are given particular attention.

POLI 302 *International Security* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course examines the causes of war and peace in the international system. It studies the impact on war and peace of such influences as cognitive psychology, identity, group decision-making, bureaucratic processes, regime types, conflict spirals, arms control, arms races, balance of power, hegemonic stability theory, trade interdependence, environment and non-renewable resources, and international institutions.

NOTE: Students who have received credit for this topic under a POLI 298 number may not take this course for credit.

POLI 304 *Theories of Foreign Policy Making* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course explores the major international and domestic determinants of foreign policy. Principal topics include the influence on foreign policy of the international system, geography, leadership, regime-type, transnationalism, and non-governmental organizations. This course draws upon the experiences of a variety of Western democratic states.

NOTE: Students who have received credit for POLI 338 or for this topic under a POLI 398 number may not take this course for credit.

POLI 305 *International Political Economy* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course examines institutions, processes, and issues in economic relations between states. Topics covered include theories of international political economy (IPE), international trade, global finance, multinational corporations, economic development, globalization, and regional blocs.

NOTE: Students who have received credit for POLI 305 may not take this course for credit.

POLI 306 *Classical Political Thought* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course focuses on the foundations of Western political thinking in ancient Greece. Through a careful examination of texts by Greek poets, historians and philosophers, concepts such as nature and convention, regime types, and justice and the good life are explored.

POLI 309 *Women and Politics in Canada* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the role of women in Canadian politics at the federal, provincial, and local level. Historical, theoretical, and legal perspectives are examined and include the politics of racism; sexuality; community organizing; suffrage; and representation within formal political structures. It focuses on the diversity and development of the women's movement in Canada.

POLI 310 *Politics of the U.S.* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course surveys the structures and dynamics that inform the contemporary American political process. In addition to studying the traditional governmental institutions, the course aims to provide a foundation for understanding and critically analyzing public opinion, the media and elections, federalism, political parties and interest groups, civil rights and civil liberties, and current issues in public policy.

POLI 311 *International Public Law* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course explores the meaning, effectiveness, and potential of interstate law. Among the topics covered are the source and development of international law; the role of the International Court of Justice; sovereignty, territory, and natural resources; human rights violations, the state and war crimes tribunals; and international environmental law.

POLI 312 *Special Topics in International Politics* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 313 *Special Topics in Comparative Politics* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 314 *Special Topics in Canadian and Quebec Politics* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 315 *International Organizations* (3 credits)

Prerequisite: POLI 205 or 207; or permission of the Department. This course offers an overview of international institutions and global governance. It examines major theoretical perspectives on international organizations, and addresses the role of the United Nations system, regional organizations, and non-governmental organizations in promoting international co-operation to address collective problems.

POLI 316 *Special Topics in Public Policy and Administration* (3 credits)

Prerequisite: POLI 207; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 317 *Special Topics in Political Theory* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 318 *Introduction to Strategic Studies* (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course is an introductory examination of the theoretical aspects of strategic studies, including the principles of war, as they apply to combat on land, at sea, and in the air.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 319 European Politics and Government (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course is a study of government and politics in selected European countries. It provides an analysis of political institutions, cultures, and processes.

POLI 320 Development of Western Legal Systems (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course is an overview of the major legal systems of the Western world, with special emphasis on the political decisions which influenced their growth and direction. Students study the development of Roman law, Romano-Germanic law, and English common law.

POLI 323 Politics of Eastern Europe (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course studies the political process and institutions of the region, with a special focus on the recent transformation relating to economic problems, social structures, culture, and ethnic conflicts, as well as the role of governmental policies in domestic and foreign affairs.

POLI 324 Parliament and the Charter (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the judicial and parliamentary responses to the Canadian Charter of Rights and Freedoms. Particular attention is paid to the judicialization of politics and the emerging dialogue on rights between courts and legislatures in important areas of public policy.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 327 Comparative Democratization (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course discusses the nature of democracy and the challenges of democratization, drawing on experiences with democratization in Southern Europe, Latin America, Eastern Europe, and Africa. Students assess prospects for democratization and consider how other countries might encourage greater democracy in countries currently experiencing regime change.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 328 Public Policy and the Politics of Equality (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course reviews theoretical debates about the role of the state and the individual, collective and individual rights, integration, and the role of cultural diversity and identity. It examines selected policy demands of women, the poor, refugees, and other constituencies.

POLI 329 American Foreign Policy (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course covers the sources and significance of American foreign policy, including the U.S. foreign policy-making process, the political and historical context of U.S. foreign policy decision making, and the nature and dimensions of contemporary American power. Major theoretical and policy debates are considered.

POLI 331 Comparative Party Systems (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course introduces students to the academic study of political parties and party systems. It examines the determinants of party behaviour from a number of theoretical perspectives, including historical, sociological and institutional. The topics covered include, but are not limited to, the number of parties, electoral systems, party finance, leadership selection, and government formation and stability. Specific case studies are selected both from established and new democracies.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 332 Theories of International Relations (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course provides an introduction to international relations theory, covering the major debates between realism, liberalism, constructivism, and critical theory, as well as competing epistemological and methodological orientations.

POLI 333 Politics of Russia (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course is a study of the government and politics of the old and the new Russia, including emerging political, social, and economic structures, conflicts, and issues.

POLI 334 Political Participation in Canada (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the various approaches to understanding the participation of the public in politics, primarily electoral but also non-electoral activities, in Canada and from a comparative perspective.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 335 Politics of China (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course focuses on political development of China. Topics include political mobilization, economic development, democracy, and the policy process.

POLI 336 Politics of South Asia (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course examines in a comparative manner the political systems of South Asian countries in light of their socio-economic environment. Specific emphasis is placed on four countries —

India, Pakistan, Bangladesh, and Sri Lanka. After a comprehensive study of the social and political structure of these countries, agrarian and industrial policies are evaluated.

POLI 337 *Politics of Japan* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course focuses on the political development of Japan since the end of World War II. Emphasis is placed on Japanese modernization, post-industrial politics, national security and constitutional pacifism.

POLI 339 (*also listed as SCPA 339*)

***Quebec Politics and Society/ La vie politique québécoise* (3 credits)**

Prerequisite: POLI 204 and 207; or permission of the Department. This course is a study of the changing party structure and political issues in Quebec and their relationship to constitutional, cultural, and economic factors.

On étudiera dans ce cours l'évolution structurelle des partis et des questions politiques au Québec en fonction de facteurs d'ordre constitutionnel, culturel et économique.

NOTE: Students who have received credit for POLI 211 or SCPA 211 may not take this course for credit.

NOTE: The course will be offered in both English and French on a rotational basis. Please consult the Undergraduate Class Schedule for details.

POLI 340 *Canadian Political Culture* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course approaches Canadian politics from a societal perspective. The objective is to develop a better understanding of Canada's political culture through a cross-time and cross-national analysis.

POLI 341 *Provincial and Territorial Politics* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course analyzes regional political cultures in Canada including the development of provincial political parties and public administrations, the rise of third parties, provincial and territorial constitutional positions, electoral behaviour, and institutional reform in the northern Territories.

NOTE: Students who have received credit for POLI 438 may not take this course for credit.

POLI 342 *Asia and Power Politics* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course examines the politics of regional powers in Asia and explores the international relations of several Asian countries, in particular India, China, Japan, Indonesia, and Vietnam.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 345 *Contemporary Political Philosophy* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines the character of contemporary political theory when viewed from both a modernist and an anti-modernist understanding of political life. The course also involves an examination into what it means to be modern and whether the critique of modernity is itself a very modern activity.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 349 *Political and Social Theory and the City* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines the theoretical and ideological aspects of city government in historical and normative perspective.

POLI 350 *Canadian and Quebec Law* (6 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course is an introduction to Canadian and Quebec law. It emphasizes certain areas of criminal law, the Canadian Charter of Rights and Freedoms, and Quebec civil law. An analysis is undertaken of the criminal court structure and criminal procedure, legal constitutional rights; the civil court structure and civil court procedures.

POLI 351 *Canadian Federalism* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course is a critical and analytical study of the theory of federalism, its principles, and techniques, and the response of Canadian federal systems to the demands of cultural dualism and regional pressures.

POLI 352 *Comparative Urban Politics and Government* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course deals with politics and government in selected Canadian cities, with comparative reference to cities elsewhere in the world.

POLI 353 *Principles of Public Policy* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the concepts, theories and approaches to the study of public policy. It also explores the major actors, processes and institutions involved in the development of public policy from a Canadian and/or comparative perspective. Topics include the role of the bureaucracy, globalization and internationalization, and state-society relations in policy-making.

POLI 356 *Canadian Political Parties* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course provides a comprehensive examination of the origins and development of political parties in Canada at both the federal and provincial levels. Theories about party development, including one party dominance, brokerage politics and third party development, are examined in order to determine the efficacy of political parties.

POLI 361 *Advocacy Groups and Public Policy* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. Students examine the broad social, economic, political, and cultural forces shaping governmental decisions and policies. Particular attention is paid to the conflict between private and public concerns.

POLI 362 *Policy Analysis and Program Evaluation* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course provides a basic understanding of various approaches to policy planning and policy evaluation. Special emphasis is placed on various conceptual, methodological, and ethical issues emergent in the evaluation of governmental policy performance.

POLI 363 *Issues in Canadian Public Policy* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. The course examines alternative public policies in selected areas at the federal, provincial, and municipal levels in Canada. Policies analyzed vary from year to year and include such areas as social welfare, culture, education, language, environmental protection, energy conservation, urban renewal, and economic policy.

POLI 364 *Hellenistic, Roman, Medieval Political Philosophy* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines the political teachings of the Hellenistic schools such as the Academics, the Stoics, the Epicureans and the Skeptics, the political writings from the Roman Republic and Empire, and the political problematics posed by early Christianity.

POLI 365 *Canadian Public Administration* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the organization and composition of the federal bureaucracy, the role of the bureaucracy in the making and implementation of public policy, patterns of recruitment, and the mechanisms of accountability and control.

POLI 366 *Politics of Africa* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course is a comparative study of political institutions and processes in selected African countries. Countries selected may vary from year to year.

NOTE: Students should consult the Department for current topic.

POLI 367 *Quebec Public Administration* (3 credits)

Prerequisite: POLI 204 and 207; or permission of the Department. This course examines the organization and composition of Quebec bureaucracy, the role of civil servants and the making and implementation of public policy, patterns of recruitment, and the mechanisms of accountability and control.

POLI 368 *Media, Technology and Politics* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines the impact upon politics of changes in technology and the media. Students discuss a diverse range of contemporary thinkers and their understanding of the digital future. Particular attention is paid to the age of electronic politics and its effect upon the actual practice of political power.

POLI 371 *Early Modern Political Philosophy* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. Students are introduced to the origins of modern political thought from the Renaissance and the Reformation through to the mid-18th century.

POLI 372 *Political Science and Scientific Method* (6 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course focuses on contemporary interpretations of reasoning by natural scientists (i.e. empiricism, philosophical relativism and philosophical realism), and inquires into the implications of each of these interpretations for the study of the social sciences in general and political science in particular.

POLI 373 *Late Modern Political Philosophy* (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines the progression and criticism of modern political thought from the mid-18th century through to the early-20th century.

POLI 375 *Nationalism: Origins, Operation, and Significance* (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. Using specific case studies, this course examines the theories of nationalism developed originally in the early-19th century as a purely European phenomenon. It relates the rise of nationalism to the processes of modernization.

POLI 379 Politics of Latin America (3 credits)

Prerequisite: POLI 203 and 207; or permission of the Department. This course examines the political structures and processes of selected countries in South America, Central America, and the Caribbean. Countries selected may vary from year to year.

NOTE: Students should consult the Department for current topic.

POLI 384 Principles of Political Theory (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course is an intensive study of a basic work by a major thinker such as Plato, Aristotle, Machiavelli, Hobbes or Hegel. It examines a major text such as Plato's *Laws* or Hegel's *Phenomenology* as well as commentaries on it, while attempting to explore systematically the issues and problems raised by the text and the interpretative traditions that follow from it.

POLI 386 Contemporary Liberalism and Its Critics (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course examines recent developments in the theory and practice of liberalism, as well as criticisms of liberal principles and the liberal way of life from a range of contemporary perspectives.

POLI 388 Human Rights and International Justice (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course surveys normative questions comprising human rights discourse, with an emphasis on international efforts to promote human rights standards. Topics include the role of the United Nations, the North-South debate, environmental security, the obligation of individuals and states, women's rights and the work of non-governmental organizations. Special consideration is given to the controversy between the universal and particular applications of human rights.

NOTE: Students who have received credit for POLZ 388 may not take this course for credit.

POLI 389 Religion and Politics (3 credits)

Prerequisite: POLI 206 and 207; or permission of the Department. This course studies the relationship between religion and politics with reference to historical, philosophical, theological and contemporary political thought.

NOTE: Students who have received credit for this topic under a POLI 398 number may not take this course for credit.

POLI 391 Middle East and Global Conflict (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course is a study of the Middle East in transition, conflict and ideology in a global context of changing regional alliances. Topics include regional conflicts such as the Arab-Israeli conflict, the Iraq-Iran war, the Gulf crisis, foreign policy process, and the end of the cold war and its impact in the new millennium.

POLI 393 Advanced Empirical Research Methods (3 credits)

Prerequisite: POLI 207; or permission of the Department. This course presents quantitative and qualitative approaches to data analysis.

POLI 394 Globalization and Sustainable Development (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course is an introduction to the emerging field of global environmental politics. It surveys the present environmental crisis and the roles of states, international organizations, and civil society. Various case studies dealing with oceans, forests, fisheries, biodiversity, global warming, and others are used to illustrate the inherent complexity of transnational ecological issues in the era of globalization.

NOTE: Students who have received credit for POLZ 394 may not take this course for credit.

POLI 395 Politics of the Middle East (3 credits)

Prerequisite: POLI 205 and 207; or permission of the Department. This course is a comparative study of the government and politics of Arab North Africa, the Fertile Crescent, and the Arabian peninsula. Countries and topics covered may vary from year to year.

NOTE: Students should consult the Department for current topic.

POLI 396 Honours Tutorial (3 credits)

Prerequisite: Enrolment in the Honours (Thesis Option B) in Political Science. This course requires students to conduct a literature review in a topic to be chosen for their thesis, complete a bibliography, and work on their methodological approaches.

POLI 398 Selected Topics in Political Science (3 credits)**POLI 399 Selected Topics in Political Science** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

POLI 400 Advanced Seminar in International Relations Theory (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department. This course addresses central questions of international relations theory, such as the causes of war, the paths to peace and co-operation, and the relationship between power and wealth. Students consider major paradigmatic approaches to these questions from realist, liberal and constructivist perspectives, as well as the utility of eclectic or cross-paradigmatic approaches.

NOTE: Students who have received credit for this topic under a POLI 486 number may not take this course for credit.

POLI 401 *American Political Thought* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar examines texts articulating the theoretical foundations and historical development of the American regime, with attention to the relationship between the institutions, processes, individuals and ideas shaping the American way of life.

POLI 402 *Advanced International Political Economy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205, 207 and 305; or permission of the Department. This course covers both the major theoretical approaches in International Political Economy (IPE) and the practical efforts of states to shape, control, and adapt to the international economic system. Students develop and continually practise the skills of logically coherent analysis, discussion, and presentation.

NOTE: Students who have received credit for this topic under a POLI 486 number may not take this course for credit.

POLI 403 *Global Ecopolitical Analysis* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205, 207 and 394; or permission of the Department. This seminar course contextualizes contemporary ecological problems and global governance efforts to mitigate them. Students analyze multilateral environmental agreements in depth and explore various policy options that promise to anticipate future international ecopolitical issues.

NOTE: Students who have received credit for this topic under a POLI 486 number may not take this course for credit.

POLI 404 *International Institutions* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205, 207 and 315; or permission of the Department. This course is an advanced seminar covering major theoretical perspectives on the significance in world politics of international institutions and regimes, and of inter-governmental and non-governmental organizations.

NOTE: Students who have received credit for this topic under a POLI 486 number may not take this course for credit.

POLI 405 *Comparative Electoral Systems* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; or permission of the Department. This course focuses on the various political and policy impacts that electoral laws have on party competition in both advanced industrialized and less developed democracies. The course introduces students to the detailed study of both the structure and the consequences of the main electoral systems.

POLI 406 *Comparative Federalism and Political Integration* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; or permission of the Department. This course begins by examining the theories of political integration, federalism and nationalism, and the various policy instruments available to the modern state to achieve integration, before moving to an analysis of the current situation in a range of modern federal states as well as the emerging confederal system of the European Union.

NOTE: Students who have received credit for this topic under a POLI 498 number may not take this course for credit.

POLI 407 *Parliamentary Bills of Rights* (3 credits)

Prerequisite: See N.B. number (3) and POLI 204 and 207; or permission of the Department. This seminar explores the political origins and functioning of bills of rights in selected parliamentary democracies. Particular attention is paid to the "judicialization of politics" and the attempts to promote institutional dialogue between judicial and parliamentary actors in Westminster systems such as Canada, Australia, New Zealand and the United Kingdom.

NOTE: Students who have received credit for this topic under a POLI 488 number may not take this course for credit.

POLI 408 *Public Opinion and Public Policy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 204 and 207; or permission of the Department. By relying on examples from Quebec and Canada, this seminar focuses on the role of public opinion in shaping public policy. It offers an overview of scholarly debate and research on public opinion and political communication.

NOTE: Students who have received credit for this topic under a POLI 498 number may not take this course for credit.

POLI 409 *Canada: State-Society Relations* (3 credits)

Prerequisite: See N.B. number (3) and POLI 204 and 207; or permission of the Department. The current research associated with the perception of a growing sense of democratic malaise and political discontent has prompted several academics to assess the current state of Canadian democracy. Students examine and discuss the current research and critically analyze the implications for Canada's state-society relations.

NOTE: Students who have received credit for this topic under a POLI 488 number may not take this course for credit.

POLI 410 *Environmental Policy in the Developing World* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203; and POLI 207 or GEOG 300; or permission of the Department. This course surveys the interactions between development strategies and the environment. In particular, consideration is given to the environmental ramifications of large development projects, different systems of property rights, decentralization, international debt, and foreign aid in the context of forests, rivers, rangeland, wildlife, and groundwater. Students also discuss the challenges — developmental and environmental — associated with managing highly valuable natural resources. Examples are drawn from throughout the developing world.

NOTE: Students who have received credit for this topic under a POLI 487 number may not take this course for credit.

POLI 411 *Gender and Public Policy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 207; and POLI 353 or 365; or permission of the Department. This course fosters an understanding of the theoretical and practical issues surrounding the study of gender and public policy and introduces them to recent scholarship in this area. Students examine a number of themes and debates, including gender and policy studies, gender and the welfare state, women's groups in the policy process, and feminist perspectives on the bureaucracy.

NOTE: Students who have received credit for this topic under a POLI 498 number may not take this course for credit.

POLI 412 *Comparative Social Policy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 207 and 353; or permission of the Department. This seminar examines various explanations for the development and retrenchment of the welfare state in different countries. It analyzes typologies developed to conceptualize welfare-state regimes and examines, in a comparative fashion, key social policies such as health, pensions, and employment.

NOTE: Students who have received credit for POLI 461 may not take this course for credit.

POLI 413 *Theories and Practices of Governance* (3 credits)

Prerequisite: See N.B. number (3) and POLI 207; and POLI 353 or 365; or permission of the Department. This course examines the mechanisms, processes, and institutions that influence decisions concerning public life. It explores the interaction among the state, the private sector and civil society in social and economic development. Topics may include new public management, public-private partnerships, representation and citizen participation in policy-making, alternative service delivery, and public accountability.

POLI 414 *Authors of Political Imagination* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar considers the political impact of contingent narrative approaches to shifts in an individual's political imagination as opposed to purely rational or universally applicable philosophical arguments. The political potential of a broad range of literary styles, such as poetry, drama and the short story, is discussed alongside texts from the fields of philosophy, neuroscience and rhetoric so that their respective impacts can be assessed.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 415 *Modern Political Theory and Religion* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar explores the use and abuse of religious ideas, texts and traditions in the theoretical foundations of modernity such as ethical priorities and orientations, political and social institutions, and the purposes and status of science, found at the core of modern life.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 416 *Ancient Political Texts* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar explores, by careful reading of philosophic, poetic, or historical texts, the ancient political conceptualizations that frame and contribute to Western political ideas, issues and goals.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 417 *Governance* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar investigates how the efforts of governments to control the lives, thoughts and thought processes of the members of society are central to the modern governmental process and how they have been part of the agenda since the beginning of the late modern era.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 418 *Machiavelli* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar acquaints students with the arguments surrounding Machiavellian scholarship in particular and Renaissance political issues in general. Students study two of Machiavelli's canonical texts (*The Prince* and *The Discourses*) in addition to his less well known but essential contribution to Florentine historiography (*Florentine Histories*). The political and literary context of Machiavelli's writings, and how it colours contemporary criticism, is discussed.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 419 *Strategic Studies* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department. This seminar covers the theory and application of nuclear weapons as a means of deterrence to warfare. It surveys issues in nuclear control, missile defense, and deterrence design. Through simulations, special attention is given to contrasting theories on the utility of nuclear force.

POLI 421 *Transnational Politics* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department. This seminar examines the activities of non-state actors, including NGOs, social movements, corporations, and individuals, and their roles in creating global society, building international institutions, and shaping foreign policy. Emphasis is placed on theories which seek to explain the relative influence of these actors in the international political system.

POLI 422 *Canadian Foreign Policy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department. This course examines Canada's foreign policy. In this seminar, particular emphasis is given to the decision-making process by which foreign policy is formulated and implemented, with particular reference to Canadian relations vis-à-vis the United States, the Commonwealth, and the developing countries.

POLI 423 Peace Studies and Global Governance (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 302; or permission of the Department. This seminar focuses on the theory and practice of peace amongst nations. The course begins with a survey of analyses explaining the causes of aggression, war and peace, including theories of structural violence and revolution; nationalism and cosmopolitanism. It then examines the roles played by the state, international organizations, and peace movements, focusing on global and regional disarmament initiatives and peace-keeping.

POLI 425 Foundations of Liberalism (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar examines the genesis, principles and purposes of classical liberalism as it is articulated by early modern authors. This involves investigating conceptions of and arguments for personal freedom, natural equality, private property, individual rights and limited government, among other topics. It then explores the subsequent development and distortion of liberal ideas by later theorists in the tradition.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 426 Nietzsche (3 credits)

Prerequisite: N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar is devoted to an exploration of the philosophical teaching of Friedrich Nietzsche and the subsequent influence of this teaching on the political and spiritual developments of Western culture. Nietzsche's influence on such movements as deconstruction, nihilism, and postmodernism is explored.

NOTE: Students who have received credit for this topic under a POLI 498 number may not take this course for credit.

POLI 427 Political Thought of the Enlightenment (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This course examines the impact of Enlightenment thinking in Europe, especially Scotland and the reformed parts of Northern France, Switzerland, the Netherlands, and the German states.

NOTE: Students who have received credit for this topic under a POLI 498 number may not take this course for credit.

POLI 428 Constitutional Politics in Canada (3 credits)

Prerequisite: See N.B. number (3) and POLI 204 and 207; or permission of the Department. This seminar considers the emergence of "mega constitutional politics" in the 1980-1995 period involving state and societal actors. Topics include the Victoria Charter, Patriation, Meech Lake Accord, Charlottetown Accord, the 1980 and 1995 Quebec referenda, and attempts at non-constitutional reform since 1995.

NOTE: Students who have received credit for this topic under a POLI 488 number may not take this course for credit.

POLI 429 Political Socialization in Canadian and Comparative Perspective (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department. This course aims at understanding the social origins of political opinions, attitudes and values, under what conditions they change, and how they affect political dynamics in Canada and in a comparative perspective.

NOTE: Students who have received credit for this topic under a POLI 487 number may not take this course for credit.

POLI 430 Scientism, Ideology and Liberalism (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar examines contemporary approaches to scientific and ideological explanations of political activity, and analyzes the relationship between science and ideology and contemporary liberalism. Students discuss the works of prominent contemporary thinkers who offer a critique of scientific and/or ideological politics and who propose a non-ideological liberalism.

NOTE: Students who have received credit for this topic under a POLI 490 number may not take this course for credit.

POLI 431 State-Society Relations in China (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; or permission of the Department. This course explores different approaches to the study of state-society relations in the People's Republic of China. Specifically, the course considers the applicability of concepts such as neo-traditionalism, state reach, corporatism, civil society, and rightful resistance, during both the Maoist and reform eras.

NOTE: Students who have received credit for this topic under a POLI 487 number may not take this course for credit.

POLI 432 Comparative Public Administration and Bureaucracy (3 credits)

Prerequisite: N.B. number (3) and POLI 204 and 207; or permission of the Department. This course examines the theories and the development of public administration within a comparative context. Using a Weberian framework of bureaucracy, the course critically evaluates the formal-rational concepts of bureaucracy in relation to case studies of public services in Europe and the new bureaucratic structures developed in other countries.

NOTE: Students who have received credit for POLI 380 may not take this course for credit.

POLI 433 Critics of Modernity (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department. This seminar studies selected writings by major critics of modernity during the 20th century. The authors studied may include Hannah Arendt, Albert Camus, Fyodor Dostoevsky, George Grant, Bertrand de Jouvenel, Alasdair MacIntyre, Jacques Maritain, Richard Niebuhr, Michael Oakeshott, Leo Strauss, Charles Taylor, and Eric Voegelin.

POLI 463 *Government and Business in Canada* (3 credits)

Prerequisite: See N.B. number (3) and POLI 204, 207 and 353; or permission of the Department. This seminar in public policy is designed to explore the relationship between government and business in Canada. Particular attention is paid to the formation and implementation of policy intended to promote and control enterprise, and the role of government as entrepreneur.

POLI 481 *Issues in Western European Politics* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; or permission of the Department. This seminar examines the nature of politics of the states and societies of Western Europe, including the significance of their membership in the European Union.

POLI 483 *State and Society in Latin America* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203, 207 and 379; or permission of the Department. This seminar examines the nature of politics in Latin America. A specific focus is placed on selective issues of state-society relations, and the emergence of new political forces and institutions in response to changes in the socio-economic structure of the region.

POLI 484 *Post-Communist Democracies* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; and POLI 323 or 333; or permission of the Department. This seminar reviews the post-communist states' transition to democracy and their state-formation. The seminar focuses on the interplay between the forces of nationalism, ethnicity, identity, and the transition to democratic structures.

POLI 485 *Issues in Development and Democracy* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203; or permission of the Department. This seminar focuses on the political and economic problems of the new nations. A particular emphasis is placed on understanding the process of development and state formation within a democratic context.

POLI 486 *Advanced Seminar in International Relations* (3 credits)

Prerequisite: See N.B. number (3) and POLI 205 and 207; or permission of the Department.

POLI 487 *Advanced Seminar in Comparative Politics* (3 credits)

Prerequisite: See N.B. number (3) and POLI 203 and 207; or permission of the Department.

POLI 488 *Advanced Seminar in Canadian and Quebec Politics* (3 credits)

Prerequisite: See N.B. number (3) and POLI 204 and 207; or permission of the Department.

POLI 489 *Advanced Seminar in Public Policy and Administration* (3 credits)

Prerequisite: See N.B. number (3) and POLI 207; POLI 353 or 365; or permission of the Department.

POLI 490 *Advanced Seminar in Political Theory* (3 credits)

Prerequisite: See N.B. number (3) and POLI 206 and 207; or permission of the Department.

Advanced seminars deal with selected topics in sub-fields of political science. Topics vary from year to year.

NOTE: Students should consult the Department for a description of these courses.

POLI 495 *Honours Thesis* (6 credits)

Prerequisite: Enrolment in the Honours (Thesis Option B) in Political Science. The student works with an individual faculty member in a particular field of study in Political Science. Students are asked to produce a sustained piece of written work to be defended before a departmental committee.

POLI 496 *Honours Seminar* (3 credits)

Prerequisite: Permission of the Department. This seminar involves the student in formulating an honours research proposal, and the research and writing of an honours paper. Topics of the seminar vary from year to year.

POLI 497 *Internship* (3 credits)

Prerequisite: Permission of the Department. The internship is a one-term apprenticeship in some aspect of public affairs and policy analysis. Placements may be drawn from all areas of possible employment, including private sector, government and community organizations. Students are asked to submit a written report which summarizes and evaluates their work experience.
NOTE: Eligible students should have completed 39 credits in Political Science and must have an excellent academic record with a minimum GPA of 3.5. The undergraduate committee of the Department will determine the eligibility of the student and will approve the internship. Students should consult the Department for further information.

POLI 498 *Advanced Topics in Political Science* (3 credits)

Prerequisite: See N.B. number (3) and POLI 207; and POLI 203, 204, 205 or 206; or permission of the Department. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.250

PSYCHOLOGY

Faculty

Chair

JEAN-ROCH LAURENCE, PhD C'dia., Professor

Distinguished Professors Emeriti

ZALMAN AMIT, PhD McG.
TANNIS ARBUCKLE-MAAG, PhD Tor.
ANNA-BETH DOYLE, PhD Stan.
ALEX E. SCHWARTZMAN, PhD Tor.
JANE STEWART, PhD Lond.

Professors

SHIMON AMIR, PhD McG., Provost's Distinction
LOUIS BHERER, PhD Montr.
WILLIAM BUKOWSKI, PhD Mich. State
JUNE S. CHAIKELSON, PhD McG.
MICHEL DUGAS, PhD Laval
REX B. KLINE, PhD Wayne State
VIRGINIA B. PENHUNE, PhD McG.
JAMES G. PFAUS, PhD Br. Col.
NATALIE PHILLIPS, PhD Dal.
DIANE POULIN-DUBOIS, PhD Montr.
NORMAN SEGALOWITZ, PhD Oxf.
LISA SERBIN, PhD S.U.N.Y.(Stony Brook)
PETER SHIZGAL, PhD Penn., Provost's Distinction
DALE M. STACK, PhD Qu.
CARSTEN WROSCH, PhD Berlin

Associate Professors

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WAYNE BRAKE, PhD McG.
C. ANDREW CHAPMAN, PhD McM.
MICHAEL CONWAY, PhD Wat.
ROBERTO DE ALMEIDA, PhD Rutgers
MARK ELLENBOGEN, PhD C'dia.
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RICK GURNSEY, PhD Qu.
AARON JOHNSON, PhD Glas.
KAREN Z. LI, PhD Tor.
JENNIFER McGRATH, PhD Bowling Green State
SYDNEY B. MILLER, PhD McG.
DAVID MUMBY, PhD Br. Col.
ADAM RADOMSKY, PhD Br. Col.
ANDREW RYDER, PhD Br. Col.
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Assistant Professors

ERIN T. BARKER, PhD Alta.
KRISTA BYERS-HEINLEIN, PhD Br. Col.
NADIA CHAUDHRI, PhD Pitt.
JEAN-PHILIPPE GOUIN, PhD Ohio State
ROISIN O'CONNOR, PhD S.U.N.Y.(Buffalo)

Affiliate Professors

SAM BURSTEIN, PhD Wat.
PAUL D. HASTINGS, PhD Tor.

Senior Lecturers
THERESA BIANCO, PhD W.Austr.
LUCIE BONNEVILLE, PhD C'dia.

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus
Psychology Building, Room: PY 146
514-848-2424, ext. 2222

Richard J. Renaud Science Complex, Room: SP 244

Department Objectives

Psychology is the scientific study of mental life, both its neurological bases and its manifestations in behaviour. Psychology also examines the factors that promote change in behaviour and mental activity. Through teaching and research, the Department serves the community by furthering such knowledge and applying it to promote human welfare. The commitment of faculty members to research assures that students keep up with current developments. Their involvement in community programs keeps students and faculty alike in close touch with the practical application of the discipline.

Programs

The Psychology Department offers minor, major, specialization, and honours programs. Both BA and BSc degrees are offered, and students may also choose a Behavioural Neuroscience option for these degrees. Students planning a career or graduate studies in psychology are normally expected to follow the appropriate honours or specialization program. Students planning to pursue graduate studies in clinical psychology should ensure that the course electives they choose coincide with requirements of the licensing boards. The major program is designed for students who wish to concentrate their studies in psychology but at the same time wish to pursue general education in other disciplines. The major program can be combined with a major in another department.

Students registered in the Honours, Specialization, or Major in Psychology may select Psychology electives in various Content Areas in order to obtain a broad overview of the discipline. The five Content Areas within the Department are Social, Personality, and Culture; Developmental; Clinical and Health; Behavioural Neuroscience; and Cognitive Science. It is possible for students to pursue in-depth studies within these specific Content Areas by taking Tier 2 courses.

The minor program can be taken only by students registered in another degree program and provides the opportunity to gain basic exposure to the main sub-disciplines of psychology or to pursue one such area in some depth.

Students are strongly encouraged to take advantage of academic counselling services available in the Psychology Department in order to select the program and courses that best meet their needs. Students are ultimately responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits. Students must have a GPA of 3.5 in Psychology courses to qualify for entry to honours.

For additional information concerning programs and courses, students should consult the Department.

66 BA Honours in Psychology

- 30 Core Requirements (PSYC 305³, 310³, 311³, 315³, 316³, 355³, 490³, 491³, 495⁶)
- 15 Chosen from Tier 1 with at least:
 - 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from at least two different Tier 2 Content Areas
- 9 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

66 BSc Honours in Psychology

- 30 Core Requirements (PSYC 305³, 310³, 311³, 315³, 316³, 355³, 490³, 491³, 495⁶)
- 15 Chosen from Tier 1 with at least:
 - 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from at least two different Tier 2 Content Areas
- 9 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

NOTE: In addition, students must complete a minimum of 15 science credits outside the Department. The courses must be selected in consultation with a Psychology program advisor.

NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

- 66 BSc Honours in Psychology (Behavioural Neuroscience Option)**
- 30 Core Requirements (PSYC 305³, 310³, 311³, 315³, 316³, 355³, 490³, 491³, 495⁶)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from the Tier 2 Behavioural Neuroscience Content Area and PSYC 445³
- 9 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

An additional 21 Science credits as specified below:

- 9 CHEM 221³, 222³, 271³
- 3 BIOL 225³ or 226³
- 9 Chosen from BIOL 225³, 226³, 227³, 261³, 266³, 321³, 364³, 367³, 462³; CHEM 478³

60 BA Specialization in Psychology

- 15 Core Requirements (PSYC 305³, 310³, 315³, 316³, 355³)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from at least two different Tier 2 Content Areas
- 18 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

60 BSc Specialization in Psychology (Behavioural Neuroscience Option)

- 15 Core Requirements (PSYC 305³, 310³, 315³, 316³, 355³)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from the Tier 2 Behavioural Neuroscience Content Area and PSYC 445³
- 18 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

An additional 21 Science credits as specified below:

- 9 CHEM 221³, 222³, 271³
- 3 BIOL 225³ or 226³
- 9 Chosen from BIOL 225³, 226³, 227³, 261³, 266³, 321³, 364³, 367³, 382³, 462³; CHEM 478³

60 BSc Specialization in Psychology

- 15 Core Requirements (PSYC 305³, 310³, 315³, 316³, 355³)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 12 Chosen from at least two different Tier 2 Content Areas
- 18 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

NOTE: In addition, students must complete a minimum of 15 science credits outside the Department. The courses must be selected in consultation with a Psychology program advisor.

NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

42 BA Major in Psychology

- 12 Core Requirements (PSYC 305³, 310³, 315³, 355³)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 15 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

42 BSc Major in Psychology

- 12 Core Requirements (PSYC 305³, 310³, 315³, 355³)
- 15 Chosen from Tier 1 with at least:
- 6 chosen from the Social, Personality, and Culture Content Area and the Developmental Content Area
 - 6 chosen from the Behavioural Neuroscience Content Area and the Cognitive Science Content Area
- 15 Psychology elective credits at the 300 or 400 level selected in consultation with a Psychology program advisor

NOTE: Students must have completed an appropriate program of science prerequisites in order to be admitted to BSc programs.

24 Minor in Psychology

- 6* PSYC 200
- 6 Core Requirements (PSYC 310³, 315³)
- 12 Psychology elective credits with a minimum of nine credits at the 300 level selected in consultation with a Psychology program advisor

**Students exempted from PSYC 200 will replace the credits with 300- or 400-level PSYC.*

Core Requirements

FOR MINOR

- PSYC 310 Research Methods and Designs I (3 credits)
PSYC 315 Statistical Analysis I (3 credits)
-

PLUS FOR MAJOR

- PSYC 305 History and Systems (3 credits)
PSYC 355 Fundamentals of Behavioural Neurobiology (3 credits)
-

PLUS FOR SPECIALIZATION

- PSYC 316 Statistical Analysis II (3 credits)
-

PLUS FOR HONOURS

- PSYC 311 Research Methods and Designs II (3 credits)
PSYC 490 Honours Seminar Topics (3 credits)
PSYC 491 Honours Seminar Issues (3 credits)
PSYC 495 Honours Thesis (6 credits)
-

TIER 1

Social, Personality, and Culture Content Area

- PSYC 321 Fundamentals of Personality (3 credits)
PSYC 325 Fundamentals of Social Psychology (3 credits)

Developmental Content Area

- PSYC 333 Fundamentals of Lifespan Development (3 credits)

Clinical and Health Content Area

- PSYC 340 Fundamentals of Psychopathology (3 credits)
PSYC 341 Fundamentals of Health Psychology (3 credits)
PSYC 342 Forensic Psychology (3 credits)

Behavioural Neuroscience Content Area

- PSYC 351 Fundamentals of Learning (3 credits)
PSYC 354 Evolutionary Foundations of Psychology (3 credits)

Cognitive Science Content Area

- PSYC 363 Fundamentals of Sensation and Perception (3 credits)
PSYC 364 Fundamentals of Cognition (3 credits)
-

TIER 2

Social, Personality, and Culture Content Area

- PSYC 420 The Self in Social Context (3 credits)
PSYC 423 Emotion (3 credits)
PSYC 424 Cultural Psychology (3 credits)
PSYC 425 Culture, Development, and the Self (3 credits)
PSYC 426 Psychometrics and Individual Differences (3 credits)
PSYC 427 Current Issues in Personality (3 credits)
PSYC 428 Social and Cultural Advanced Issues (3 credits)

Developmental Content Area

- PSYC 431 Infancy (3 credits)
PSYC 432 Childhood Development (3 credits)
PSYC 433 Adolescent Development (3 credits)
PSYC 434 Aging (3 credits)
PSYC 435 Developmental Psychopathology (3 credits)
PSYC 438 Developmental Advanced Issues (3 credits)

Clinical and Health Content Area

- PSYC 440 Psychopathology: Mood, Anxiety, and Personality Disorders (3 credits)
PSYC 441 Psychopathology: Schizophrenia and Neurocognitive Disorders (3 credits)
PSYC 442 Psychopathology: Behaviour Regulation Disorders (3 credits)
PSYC 443 Psychological Intervention Models (3 credits)
PSYC 444 Hypnosis and Dissociation (3 credits)
PSYC 445 Human Neuropsychology (3 credits)
PSYC 446 Stress (3 credits)
PSYC 447 Current Issues in Health Psychology (3 credits)
PSYC 448 Clinical Advanced Issues (3 credits)

Behavioural Neuroscience Content Area

- PSYC 450 Neurobiology of Drug Abuse and Addiction (3 credits)
PSYC 451 Neurobiology of Learning and Memory (3 credits)
PSYC 452 Neurobiology of Sensation and Perception (3 credits)
PSYC 453 Neurobiology of Motivated Behaviour (3 credits)
PSYC 454 Hormones and Behaviour (3 credits)
PSYC 455 Neuropharmacology (3 credits)
PSYC 456 Functional Neuroanatomy (3 credits)
PSYC 457 Foundations of Animal Behaviour (3 credits)
PSYC 458 Behavioural Neuroscience Advanced Issues (3 credits)

Cognitive Science Content Area

- PSYC 460 Vision (3 credits)
PSYC 461 Computational Modelling of Human Cognition (3 credits)
PSYC 462 Memory and Attention (3 credits)
PSYC 463 Concepts and Categories (3 credits)
PSYC 464 Judgment and Decision Making (3 credits)
PSYC 465 Language (3 credits)
PSYC 466 Cognitive Development (3 credits)
PSYC 467 Learning (3 credits)
PSYC 468 Cognitive Science Advanced Issues (3 credits)

ADVANCED EXPERIENCE COURSES

- PSYC 387 Directed Research in Psychology (3 credits)
PSYC 483 Directed Readings in Psychology (3 credits)
PSYC 485 Specialization Project (6 credits)
PSYC 487 Advanced Directed Research in Psychology (3 credits)
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Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

PSYC 200 *Introductory Psychology* (6 credits)

This comprehensive survey course introduces the student to a wide variety of topics in scientific psychology. Topics include the foundations of modern psychology, neural mechanisms, learning and memory, sensation and perception, motivation and emotion, cognitive processes, social influences, personality, disorders of cognition and behaviour, and therapy.

*NOTE: Students who have received credit for or exemption from *Introductory Psychology* at Cegep or other post-secondary institutions may not take this course for credit.*

*NOTE: Students entering all Psychology programs except the minor who have not received credit for or exemption from *Introductory Psychology* at Cegep or other post-secondary institutions must take this course, but not for Psychology program credit.*

NOTE: Students who have received credit for MANA 213 may not take this course for credit.

PSYC 210 *Critical Thinking in Psychology* (3 credits)

This course provides an innovative approach to understanding how psychologists think about the mind and behaviour, ask and answer questions, and collect and interpret evidence to clarify ideas and test hypotheses. Students learn the difference between critical thinking and gullibility. Students also develop skills to identify errors and misrepresentations in information presented in the media and in viewpoints driven by agendas rather than evidence.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 221 *Foundations of Personality* (3 credits)

The organization, functioning, and development of personality are discussed from the point of view of the major current theories. Evidence from empirical studies is introduced to illustrate various influences on personality. Socio-economic, cultural, and biological factors may also be considered.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 222 Person and Society (3 credits)

This course considers current personality and social psychology research as it relates to people's everyday lives. The focus is on blending these two research areas. The study of personality concerns itself with the psychology of the individual, individual differences, and the role of individual-level factors in explaining behaviour. In contrast, social psychology focuses on how behaviour may be influenced by social and contextual factors. Topics may include the many ways of describing the self and others, persuasion, group processes, close relationships, aggression, and prosocial behaviour.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 223 Motivation and Emotion in Daily Life (3 credits)

Why do individuals do the things they do? Why don't individuals do the things they don't do? When confronted with challenges, what determines whether individuals persist in the face of difficulty or decide to invest their energy elsewhere? This course presents models that address the question of why individuals do the things they do. These models are related to specific topics such as appetitive behaviour, love and sexual behaviour, arousal and attention, peak performance, aggression and anger, conflict, stress, curiosity, creativity, goal-setting, and achievement.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 230 Womb to Tomb: Psychological Transitions Across the Lifespan (3 credits)

This course studies the cognitive, socio-emotional, and physical changes and continuities that occur across the lifespan. Major theories of development are discussed and related to each of the life stages. Students also gain insight into the developmental processes that influence themselves and others.

NOTE: Students who have received credit for AHSC 220 may not take this course for credit.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 233 Adolescence (3 credits)

This course is an introduction to the study of adolescence. Topics are considered from cross-disciplinary and cross-cultural perspectives. Topics may include physical change, family relationships, friends and peers, sexual and sex-related behaviours, cognitive growth, and lifestyles.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 280 may not take this course for credit.

PSYC 235 When Good Kids Go Bad (3 credits)

This course examines the social, emotional, and behavioural problems encountered by children, youth, and parents. Manifestations of these issues range from day-to-day "normal" concerns to maladaptive and dangerous behaviours. Potential contributing biological, familial, peer, cultural, and economic factors are considered, as well as the uniquely different ways in which individuals react to what seem to be "similar" backgrounds.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 240 Foundations of Psychopathology (3 credits)

This course deals with major concepts and issues concerning psychopathology in humans. It considers current scientific models of diagnosis, etiology, assessment, and therapy. It reviews the major disorders of the DSM system, and explores social, learning, cognitive, biomedical, and psychodynamic approaches to major clinical disorders.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 241 Stress, Health, and Coping (3 credits)

Coping skills are directly related to health and to the amount of stress a person experiences. This course introduces students to research that explains how and why stress affects health. The ways in which coping skills and other resources can effectively reduce stress are also considered. The course examines what psychologists know about stress in a research-oriented manner, giving equal attention to the physiological, psychological, and cognitive underpinnings of coping and health.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 242 Psychology and the Law (3 credits)

Psychology and the law interact in myriad ways. The criminal justice system, from its code to its enforcement, is based on implicit psychological assumptions about human behaviour and how it should be controlled. Those in the justice system make decisions based on evidence from observations and testimony, both of which are assumed to be gathered in an objective, unbiased manner. Those in psychological professions assume they can influence decisions made in the legal system by providing experimental evidence. This course examines the roles psychologists play in the legal system, the assumptions of both legal and psychological professional groups, and how these groups can complement one another.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 263 or for this topic under a PSYC 298 number may not take this course for credit.

PSYC 243 Learning Disabilities (3 credits)

This course deals with selected aspects of theory and practice related to learning disabilities including perceptual and motor disabilities, language disabilities, and methods of diagnosis and remediation. Issues of accurate assessment and differentiation from other forms of disability are also considered.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 281 may not take this course for credit.

PSYC 250 Drugs and Behaviour (3 credits)

This course examines various factors related to the use and abuse of licit and illicit drugs including alcohol and nicotine, depressants and stimulants, tranquilizers, opium derivatives, and hallucinogenic compounds. One of the main themes emphasized is why some people lose their ability to socially and physiologically regulate their intake. The course material focuses on the prevalent concepts in the field, theoretical models guiding researchers and clinicians, and approaches to intervention.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 261 or for this topic under a PSYC 298 number may not take this course for credit.

PSYC 251 Learning and Memory in Daily Life (3 credits)

This course examines current research on learning and memory and introduces students to a variety of topics in this area. Theories of learning and memory are related to examples from everyday life. Specific topics may include memory accuracy, techniques for improving study skills and school performance, animal training, sports training, strategies for memory improvement, strategies for changing bad habits, and child discipline.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 255 Brain and Behaviour (3 credits)

This course is an introduction to the biological bases of behaviour. The structural and functional anatomy of the central nervous system is presented, with particular emphasis on the neural pathways involved in behaviours relating to motivation, mood, learning and memory, and sensation and perception. This course explores how recent research helps in understanding how normal and abnormal brain functioning affect human behaviour.

NOTE: Students registered in a Psychology program may not take this course for credit.

PSYC 264 Perception and Cognition in Daily Life (3 credits)

This course introduces topics related to perception and cognition. The emphasis of the course is on how humans acquire, store, and use information in real-world contexts. Topics covered include reading, object perception, art and motion pictures, language processing, music, problem solving, and planning.

NOTE: Students registered in a Psychology program may not take this course for credit.

NOTE: Students who have received credit for PSYC 249 or for this topic under a PSYC 298 number may not take this course for credit.

SELECTED TOPICS IN PSYCHOLOGY

The 200-level Selected Topics courses (PSYC 297; PSYC 298; PSYC 299) are designed as elective courses for students who are not registered in a Psychology program. These courses cover a wide variety of areas of contemporary interest. The particular topic varies from one term to the next and the material is dealt with in a manner appropriate for students who have minimal formal background in psychology. Students should consult with the Psychology Department to find out the topic titles for a particular term.

NOTE: Students registered in a Psychology program may not take these courses for credit.

The Department also offers 300- and 400-level topics courses for students registered in Psychology programs. (See below.)

PSYC 297 Selected Topics in Psychology (3 credits)**PSYC 298 Selected Topics in Psychology** (3 credits)**PSYC 299 Selected Topics in Psychology** (6 credits)**PSYC 305 History and Systems** (3 credits)

Prerequisite: PSYC 200 or equivalent. This introductory course examines the historical background of psychology beginning with ancient Greece, the Middle Ages, and the Renaissance, through the William James era. Early contributions to psychology from the fields of philosophy, religion, physics, physiology, and psychophysics are presented and related to the various psychological schools of thought of the 19th century. Students gain an understanding of how cultural and social forces and various scientific paradigms shaped psychological theory and how psychological perspectives contribute to social life.

NOTE: Students who have received credit for PSYC 320 may not take this course for credit.

PSYC 310 Research Methods and Designs I (3 credits)

Prerequisite: PSYC 200 or equivalent; PSYC 315 previously or concurrently. This course describes the methods used by psychology researchers to obtain information and understand psychological phenomena and processes. Students learn how research studies are conceptualized and conducted, and how data are analyzed and interpreted within specific areas of psychology. Observational, experimental, and correlational techniques are presented in the context of ongoing research, to enable students to develop a conceptual understanding of the procedures used to develop and evaluate hypotheses and theories in psychology.

PSYC 311 Research Methods and Designs II (3 credits)

Prerequisite: PSYC 310, 315; PSYC 316 previously or concurrently. Advanced methodological issues in psychological research are introduced. Students gain experience in the critical evaluation of research design and methodology by conducting several experiments in different research areas, by analyzing and interpreting data from these experiments, and writing and presenting their research findings. This course is primarily intended for students who are preparing for graduate school. Lectures and laboratory.

PSYC 315 Statistical Analysis I (3 credits)

This course is an introduction to statistics that are used in the context of psychology research. Topics dealt with include frequency distributions, measures of central tendency and dispersion, the normal curve, correlation, linear regression, elementary probability theory, an introduction to hypothesis testing, and the t test. These topics are covered in lectures and in weekly laboratory sessions where students learn how to perform statistical tests both manually and with specialized software. *NOTE See §200.7*

NOTE: Students who have completed Cegep QM 360-300 (Quantitative Methods) and MATH 201-300 (Complementary Topics in Mathematics) with 75% or better grades can be exempt from PSYC 315. Exemptions may be granted on the basis of other courses. Application for exemption should be made to the Arts and Science Student Academic Services.

PSYC 316 Statistical Analysis II (3 credits)

Prerequisite: PSYC 310, 315. This course is an extension of PSYC 315. It is designed to advance students' understanding of hypothesis testing and statistical inferences. The course presents the general linear model, which subsumes multiple regression, analysis of variance (ANOVA), and analysis of covariance (ANCOVA). As well, the course deals in detail with the limits of null-hypothesis significance testing (NHST) and reviews alternatives to NHST including confidence intervals, measures of effect size, and meta-analysis. Lectures and weekly laboratory. *NOTE See §200.7*

PSYC 321 Fundamentals of Personality (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to theories of personality. The development, structure, and correlates of personality are presented from the viewpoint of major classical and current theories. Theories may include trait, biological, learning, and cognitive perspectives, as well as psychodynamic, humanistic, and existential perspectives. Through the examination of specific studies and the discussion of general methodological principles of personality research, emphasis is placed on the role of research in shaping and validating theories of personality.

NOTE: Students who have received credit for PSYC 326 may not take this course for credit.

PSYC 325 Fundamentals of Social Psychology (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to social psychology. It covers the scientific study of how people's thoughts, feelings, and behaviours are influenced by the presence of others. Topics discussed may include social and self perception; attitudes and attitude change; and conformity, group processes, interpersonal attraction, prosocial behaviour, aggression, and prejudice.

NOTE: Students who have received credit for PSYC 331 may not take this course for credit.

PSYC 333 Fundamentals of Lifespan Development (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to developmental psychology. It provides a broad survey of psychological research and theories about human development across the lifespan. It emphasizes the interaction of physical, cognitive, and socio-emotional domains in development from infancy to old age. Although the main focus of the course is on normative development, aspects of abnormal development may be covered. Specific methodological challenges and procedures relevant to developmental research are also discussed.

NOTE: Students who have received credit for PSYC 371 may not take this course for credit.

PSYC 340 Fundamentals of Psychopathology (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to psychopathology. The course deals with major concepts and issues in the study of psychopathology. It focuses on the major models of etiology, diagnosis, prognosis, assessment, and treatment, and presents the major disorders and five axes of the DSM system. Behavioural, cognitive, social learning, neurobiological, sociocultural, evolutionary, and psychodynamic approaches to psychopathology are covered, with an emphasis on research and methodology throughout.

NOTE: Students who have received credit for PSYC 322 may not take this course for credit.

PSYC 341 Fundamentals of Health Psychology (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to the multidisciplinary field of health psychology. Issues relating to health and illness across the lifespan, including health promotion and maintenance, prevention and treatment of illness, etiology and correlates of health, illness and dysfunction, and the health care system are covered from a biopsychosocial perspective. Topics such as social support, smoking, stress, cardiovascular disease, pain, and cancer are also presented.

NOTE: Students who have received credit for PSYC 392 may not take this course for credit.

PSYC 342 Forensic Psychology (3 credits)

Prerequisite: PSYC 340. This course critically examines research and theory relating to a number of selected issues of contemporary interest in forensic psychology. Topics such as the admissibility of scientific evidence, eye-witness testimony, trauma and memory, jury selection, clinical and actuarial profiling, psychopathy, serial offenders, the validity of psychiatric examinations and lie detectors, the insanity defence, and expert testimony are presented in light of recent Canadian and American legal decisions.

NOTE: Students who have received credit for PSYC 328 or for this topic under a PSYC 398 number may not take this course for credit.

PSYC 351 Fundamentals of Learning (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course is an introduction to theories and empirical findings concerning basic mechanisms of learning and memory in humans and non-human animals. Topics covered may include the study

of learning in historical perspective, Pavlovian conditioning, operant conditioning, reinforcement, stimulus control of behaviour, types of memory, self-control and observational learning, and behavioural paradigms used in contemporary research on learning and memory.

NOTE: Students who have received credit for PSYC 346 may not take this course for credit.

PSYC 354 *Evolutionary Foundations of Psychology* (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course examines the ways that evolutionary thought has influenced the study of behaviour. Fundamental evolutionary processes are introduced, and ideas about how those processes may have shaped human and animal behaviour are considered. Additional topics include biological and cognitive continuity among species, sources of individual differences in behavioural traits, evolutionarily stable strategies and states, methods of testing evolutionary hypotheses about behaviour, and the comparative method in psychology.

PSYC 355 *Fundamentals of Behavioural Neurobiology* (3 credits)

Prerequisite: BIOL 200, BIOL 201, BIOL 202, Cegep Biology 301, Cegep Biology 101-NYA, or Cegep Biology 921. This course provides an introduction to the neural mechanisms that underlie behaviour. Topics include the structure and function of neurons, neural communication, an introduction to neuroanatomy and endocrinology, and the processing of sensory information. Students also learn how complex systems, such as the sensory and motor systems, interact to produce behaviour.

NOTE: Students who have received credit for BIOL 383 or PSYC 358 may not take this course for credit.

PSYC 363 *Fundamentals of Sensation and Perception* (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course introduces the physiological and psychological mechanisms of sensation and perception. Thorough treatment is given to questions of how information about the world is acquired through visual and auditory systems, and other modalities, that together is used with stored information to create an ongoing mental representation of the world. Topics such as pitch perception, colour vision, perception of movement, size and space perception, illusions, and distance are covered.

NOTE: Students who have received credit for PSYC 349 may not take this course for credit.

PSYC 364 *Fundamentals of Cognition* (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course introduces cognitive psychology. Theoretical perspectives and experimental findings that inform the current understanding of how humans acquire, represent, and use knowledge are presented and discussed. Topics include attention, memory, categorization, language, and thinking. This course allows students to gain familiarity with topics and concepts necessary to pursue advanced studies in cognition.

NOTE: Students who have received credit for PSYC 352 may not take this course for credit.

PSYC 372 *Personnel Psychology* (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. This course focuses on the contributions of psychology to several human resource considerations in organizations. Topics include personnel selection, training methods, personnel appraisal, and career development. This is an applied area of psychology, and therefore the interplay between theory, research, and application is emphasized.

NOTE: Students who have received credit for PSYC 385 may not take this course for credit.

PSYC 374 *Organizational Psychology* (3 credits)

Prerequisite: PSYC 310; PSYC 315 previously or concurrently. Understanding psychology can help organizations reach their goals, retain their workforce, and make themselves attractive to future employees and investors. This applied psychology course focuses on research and theories relevant to the behaviour of managers and employees. Topics include the history of Industrial/Organizational(I/O) psychology; organizational development and communication; motivation, personality, and leadership; employee satisfaction and commitment; group behaviour; negotiation and conflict resolution; and job stress.

NOTE: Students who have received credit for PSYC 386 may not take this course for credit.

PSYC 387 *Directed Research in Psychology* (3 credits)

Prerequisite: PSYC 311, 316; permission of the Department. Under the supervision of a faculty member, typically from within the Department, the student carries out an independent research project and completes a written report. The area of study is decided upon through consultation with the faculty member.

NOTE: Students who have received credit for PSYC 439 may not take this course for credit.

SELECTED PROBLEMS IN PSYCHOLOGY

Selected Problems in Psychology is designed for students enrolled in a Psychology program. The material is dealt with in a manner that assumes a background in experimental psychology and, in some cases, specific preparation through prior completion of a related course. The minimal prerequisite is PSYC 310 (Research Methods and Designs I) and PSYC 315 (Statistical Analysis I). Students should consult the Psychology Department for details concerning available courses.

PSYC 398 *Selected Problems in Psychology* (3 credits)

PSYC 420 *The Self in Social Context* (3 credits)

Prerequisite: PSYC 325. This course addresses a wide range of theoretical and empirical approaches to the self in contemporary social psychology. Self-esteem and self-concept are addressed in terms of social context, personal and social norms, affective

experience, and interpersonal behaviour. Other topics covered may include narcissism, self-presentation, self-regulation, egocentrism, and limits to self-knowledge. Issues relating to gender, gender identity, and the development of gender roles and gender differences in the social context may also be discussed.

NOTE: Students who have received credit for PSYC 332 may not take this course for credit.

PSYC 423 Emotion (3 credits)

Prerequisite: PSYC 321 or 325. This course addresses models of emotion and individual differences in emotion and mood. The subject of how emotion influences attention, memory, evaluation, and behaviour in the social domain is also considered. In addition, particular attention is paid to a number of specific emotions.

NOTE: Students who have received credit for PSYC 334 may not take this course for credit.

PSYC 424 Cultural Psychology (3 credits)

Prerequisite: PSYC 321 or 325. This course introduces cultural and cross-cultural perspectives in psychology. It focuses on theoretical assumptions and research methods specific to these perspectives, and covers research on the ways in which culture both emerges from, and shapes basic psychological processes. Specific topics include evolution and culture; cultural differences in self-concept and value systems; acculturation, cultural contact, and adaptation; culture and cognition; and cultural variation in psychopathology, health, and therapy.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 425 Culture, Development, and the Self (3 credits)

Prerequisite: PSYC 325 or 333. This course examines cultural variations in developmental processes and outcomes, especially as they are related to the self-concept. Following a presentation of the basic concepts in the understanding of development and of culture, particular domains of development are examined according to how they vary across cultural contexts. Examples of domains include moral development, parent-child interaction, education, and suicide. The overarching goal is to describe human development as taking place within a cultural milieu, the consequences of this perspective for fundamental issues in psychology and the social sciences, and the implications for the challenges of pluralism, globalization, and public policy.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 426 Psychometrics and Individual Differences (3 credits)

Prerequisite: PSYC 310, 315. In this course, consideration is given to the general theory of psychological measurement and its application in the development and use of various psychometric instruments such as achievement, intelligence, aptitude, personality, and interest tests. Derived scores, norms, reliability, and validity of these instruments are discussed in the context of general measurement problems in psychology. Item analysis, signal-detection theory, diagnostics, and non-questionnaire methods may also be discussed.

NOTE: Students who have received credit for PSYC 318 may not take this course for credit.

PSYC 427 Current Issues in Personality (3 credits)

Prerequisite: PSYC 321. This course critically examines selected contemporary issues in personality psychology with a focus on recent research findings. The importance of personality in explaining behaviours, personal beliefs, developmental outcomes, and quality of life is considered.

NOTE: Students who have received credit for PSYC 327 may not take this course for credit.

PSYC 428 Social and Cultural Advanced Issues (3 credits)

Prerequisite: Permission of the Department. This course addresses the most recent advanced issues of contemporary interest in social and cultural psychology. The main topic of the course changes from one term to the next. Potential topics include social cognition, aggression and violence, experimental-existential psychology, social-cultural neuroscience, or culture and evolution. Students should consult with the Psychology Department for information on the central course topic for the current year.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 431 Infancy (3 credits)

Prerequisite: PSYC 333. This course provides a comprehensive account of psychological development in infancy. Aspects of infant development such as physical, perceptual, cognitive, verbal, emotional, and social development are covered. Theoretical perspectives and research methods specific to the study of infant development are emphasized.

NOTE: Students who have received credit for PSYC 373 may not take this course for credit.

PSYC 432 Childhood Development (3 credits)

Prerequisite: PSYC 333. This course provides an analysis of theories pertaining to the basic processes of development during early childhood and school-age periods. A broad range of theoretical positions and methodological strategies are presented. Emphasis is on physical, cognitive, emotional, social, and personality development and the origins of individual differences in adjustment and well-being. Particular attention is given to cultural variability in development and to developmental differences between girls and boys.

NOTE: Students who have received credit for PSYC 375 may not take this course for credit.

PSYC 433 Adolescent Development (3 credits)

Prerequisite: PSYC 333. This course provides an overview of theory and research relating to multiple domains of development during adolescence. Topics include hormonal processes, physical and cognitive development, peer and parent-adolescent

relations, family processes, gender roles, identity formation, sexuality, delinquency, drug abuse, suicide, and psychological disorders in adolescents. When possible, topics are considered from cross-cultural and historical perspectives.

NOTE: Students who have received credit for PSYC 379 may not take this course for credit.

PSYC 434 Aging (3 credits)

Prerequisite: PSYC 333. This course covers recent developments in the psychology of aging. Topics include age-related changes in physiology, biology, and in sensory and cognitive functioning. Particular attention is given to the effects of these age-related changes on behaviour, personality, interpersonal functioning, gender roles, coping, and adjustment. Methodological considerations in aging research are also discussed.

NOTE: Students who have received credit for PSYC 380 may not take this course for credit.

PSYC 435 Developmental Psychopathology (3 credits)

Prerequisite: PSYC 333 or 340. Using principles of developmental and clinical psychology, this survey course focuses primarily on understanding the pathways to abnormal adjustment in childhood and adolescence. The origins of deviant and competent behaviour are examined, with special attention to the multiplicity of possible risk factors and causal processes, assessment of problems and diagnoses, and the efficacy of interventions. Students are also introduced to a number of behavioural problems such as attention-deficit and hyperactivity disorder; aggression, externalizing problems, and disruptive behaviour disorders; internalizing problems, anxiety, and mood disorders; learning disabilities; mental retardation; and autism.

NOTE: Students who have received credit for PSYC 377 may not take this course for credit.

PSYC 438 Developmental Advanced Issues (3 credits)

Prerequisite: Permission of the Department. This course addresses the most recent advanced issues of contemporary interest in developmental psychology. The main topic of the course changes from one term to the next. Potential topics include social, cognitive, language, or personality development. Students should consult with the Psychology Department for information on the central course topic for the current year.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 440 Psychopathology: Mood, Anxiety, and Personality Disorders (3 credits)

Prerequisite: PSYC 340. This course presents a focused and thorough investigation of mood and anxiety disorders. Problems studied include depressive, bipolar, and anxiety disorders. Relevant somatoform (e.g. hypochondriasis) and personality (e.g. avoidant, dependent) disorders may also be discussed. Topics include contemporary theory, classification issues, and ongoing controversies, with an emphasis on current research.

NOTE: Students who have received credit for PSYC 323 may not take this course for credit.

PSYC 441 Psychopathology: Schizophrenia and Neurocognitive Disorders (3 credits)

Prerequisite: PSYC 340. This course presents a focused and thorough investigation of schizophrenia and the neurocognitive disorders. Problems studied include schizophrenia and related psychotic disorders (e.g. delusional disorder, schizoaffective disorder), as well as dementia and other disorders of aging. Relevant personality (e.g. paranoid, schizotypal) disorders may also be discussed. Topics include contemporary theory, classification issues, and ongoing controversies, with an emphasis on current research.

NOTE: Students who have received credit for PSYC 324 may not take this course for credit.

PSYC 442 Psychopathology: Behaviour Regulation Disorders (3 credits)

Prerequisite: PSYC 340. This course presents a focused and thorough investigation of psychopathology resulting from disorders of behaviour regulation. Problems studied include eating, substance use, and impulse-control disorders. Relevant sexual, gambling, and personality (e.g. borderline, antisocial) disorders may also be discussed. Topics include contemporary theory, classification issues, and current controversies, with an emphasis on current research.

PSYC 443 Psychological Intervention Models (3 credits)

Prerequisite: PSYC 340. This course presents a focused and thorough investigation of major approaches to psychological intervention. It focuses on general principles of therapy, research methods for the study of process and outcome, and the contrasts between various theories and modalities. Topics include cognitive behavioural therapy, psychodynamic psychotherapy, humanistic-existential therapy, couples and family therapy, group therapy, and motivational interviewing. Professional and ethical issues pertaining to clinical psychologists and clinical psychology research may also be discussed.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 444 Hypnosis and Dissociation (3 credits)

Prerequisite: PSYC 340. This course critically examines research, theory, and methodological approaches relating to a number of selected issues of contemporary interest in the area of hypnosis and dissociative phenomena. Experimental and applied research on selected topics such as recovered memory, dissociation, pain and psychosomatic disorders, social and cognitive correlates of hypnotic responses, and the issue of coercion is reviewed. The forensic and clinical uses and abuses of hypnosis are surveyed and contrasted to experimental findings.

NOTE: Students who have received credit for PSYC 330 or for this topic under a PSYC 398 number may not take this course for credit.

PSYC 445 Human Neuropsychology (3 credits)

Prerequisite: PSYC 310, 315, 355. This course is a general introduction to human neuropsychology. Topics discussed include principles of brain organizations and function, human neuroimaging and recording techniques, the contribution of clinical patients

and single case studies, selected neurological disorders, and cognitive neuroscience. Emphasis is on how these issues can be meaningfully related to human behaviour, emotion, sensory perception, and higher cognitive processes.

NOTE: Students who have received credit for PSYC 359 may not take this course for credit.

PSYC 446 Stress (3 credits)

Prerequisite: PSYC 355; PSYC 340 or 341. This course examines how the evolutionary and adaptive stress response has come to contribute to health and pathology in modern society. The major endocrine, neurobiological, and cognitive underpinnings of the stress response are covered, and current stress research is discussed. Topics include the role of stress in aging, memory, depression, drug abuse, post-traumatic stress disorder, and the consequences of exposure to stress and adversity.

PSYC 447 Current Issues in Health Psychology (3 credits)

Prerequisite: PSYC 341. This course offers a focused treatment of selected advanced topics in health psychology. Potential topics include psychosocial and environmental antecedents of disease, adaptation to medical illness, approaches to improve health and manage disease, pediatric psychology, and mechanisms by which psychosocial and environmental characteristics get inside the body to influence health.

NOTE: Students who have received credit for PSYC 393 may not take this course for credit.

PSYC 448 Clinical Advanced Issues (3 credits)

Prerequisite: Permission of the Department. This course addresses the most recent advanced issues of contemporary interest in clinical psychology. The main topic of the course changes from one term to the next. Potential topics include neurobiology of psychopathology, functional somatic syndromes, personality and psychopathology, psychotherapy process research, or epidemiology of psychological disorders. Students should consult with the Psychology Department for information on the central course topic for the current year.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 450 Neurobiology of Drug Abuse and Addiction (3 credits)

Prerequisite: PSYC 310, 315, 355. This course focuses on the behavioural and neuronal mechanisms involved in drug abuse and addiction. It provides students with a solid conceptual foundation of how drugs of abuse affect the brain and behaviour. Topics such as the pharmacology of drugs of abuse, drug-induced neuronal plasticity in brain regions related to motivation and reward, and the interaction between biological factors and environmental events in addiction are discussed.

NOTE: Students who have received credit for PSYC 361 may not take this course for credit.

PSYC 451 Neurobiology of Learning and Memory (3 credits)

Prerequisite: PSYC 351, 355. This course deals with some of the major questions about the neural bases of learning and memory. A number of mechanisms subserving learning and memory are investigated, including models based on relatively simple nervous systems (e.g. conditioning in Aplysia), as well as more complex systems (e.g. the neuronal mechanisms mediating eyeblink conditioning in the rabbit and the neuronal pathways that mediate reinforcement). Other topics may include the anatomical bases of memory, including the role of the hippocampus in spatial memory, and the role of the NMDA receptor in learning and memory.

NOTE: Students who have received credit for PSYC 362 may not take this course for credit.

PSYC 452 Neurobiology of Sensation and Perception (3 credits)

Prerequisite: PSYC 355, 363. This course examines the relationship between the structures of the sensory systems and perception. Topics include how the structure of the eye and ear determine how and what is seen and heard, the modularity of cortical organization, segregation and integration of visual information, PDP and other models, bottom-up and top-down processing, and the reconstruction of the perceptual world.

NOTE: Students who have received credit for PSYC 365 may not take this course for credit.

PSYC 453 Neurobiology of Motivated Behaviour (3 credits)

Prerequisite: PSYC 310, 315, 355. This course examines the neural mechanisms that mediate motivated behaviour, and provides an introduction to concepts such as goal-directed behaviour and incentive motivation. Other topics include pleasure and pain; ingestive behaviour; sexual and reproductive behaviour; aggression; temperature regulation; and sleep, arousal, and biological rhythms.

NOTE: Students who have received credit for PSYC 367 may not take this course for credit.

PSYC 454 Hormones and Behaviour (3 credits)

Prerequisite: PSYC 310, 315, 355. This course deals with the role of hormones in integrating the activity of various neural, endocrine, and sensory systems to bring about organized, purposeful behaviour. Topics include reproductive, sexual, or environmentally adaptive systems. Treatment of material ranges from the molecular to the behavioural level.

NOTE: Students who have received credit for PSYC 369 may not take this course for credit.

PSYC 455 Neuropharmacology (3 credits)

Prerequisite: PSYC 310, 315, 355. This course focuses on neurochemistry and neuropharmacology relating to synaptic transmission. The chemistry and pharmacology of each major class of neurotransmitters is discussed. The pharmacological and psychological bases of drug actions are also explored, to provide an understanding of pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, as they relate to issues such as CNS disease, affective disorders, and the treatment of pain. This course is primarily intended for students wishing to pursue advanced graduate work in neuroscience or clinical psychology, or for those who are seeking to enter the health professions.

PSYC 456 *Functional Neuroanatomy* (3 credits)

Prerequisite: PSYC 310, 315, 355. This course focuses on the structural and functional anatomy of brain systems underlying important cognitive functions such as motor behaviour, sensory perception, learning, and memory. Emphasis is on how comparative anatomy and different experimental techniques contribute to the understanding of brain function. Through discussion of the results of anatomical, physiological, and neuroimaging studies, students develop an in-depth knowledge of the structure and function of the human brain.

PSYC 457 *Foundations of Animal Behaviour* (3 credits)

Prerequisite: PSYC 310, 315, 355. This course explores the bases underlying the study of animal behaviour as they relate to the study of psychobiology and evolutionary psychology. Topics may include reproductive strategies, communication, the effects of early experience, learning and cognition, and the mechanisms of orientation navigation and homing in animals. Behaviour genetics, theory of evolution, basic ethological concepts, and methodological issues are also discussed.

NOTE: Students who have received credit for PSYC 396 may not take this course for credit.

PSYC 458 *Behavioural Neuroscience Advanced Issues* (3 credits)

Prerequisite: Permission of the Department. This course addresses the most recent advanced issues of contemporary interest in behavioural neuroscience. The main topic of the course changes from one term to the next. Potential topics include examination of the current state of scientific study of motivation or a focused look at memory consolidation. Students should consult with the Psychology Department for information on the central course topic for the current year.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 460 *Vision* (3 credits)

Prerequisite: PSYC 363. This course builds on the introduction to the visual system developed in PSYC 363. Topics are examined from the psychophysical, computational, and physiological perspectives and may include advanced treatment of colour, motion, and texture perception; spatial vision; object, face, and scene recognition; eye movement control; flow fields; attention; and perception-in-action.

PSYC 461 *Computational Modelling of Human Cognition* (3 credits)

Prerequisite: PSYC 363 or 364. This course reviews the history of the view of mind as machine and the various computational metaphors that have helped in understanding the particular kind of computational device the brain is. The course explores the ways in which computational models of mind are implemented and can be tested against psychological theories and data. Students learn how to construct simplified representations of reality based on rule-based processes to recreate aspects of human cognition.

PSYC 462 *Memory and Attention* (3 credits)

Prerequisite: PSYC 364. This course provides an advanced introduction to theories and empirical research on memory and attention. Topics include various memory systems and mechanisms, including long- and short-term memory, working, episodic, and semantic memory. The course also addresses research on attentional processes such as switching, selective, and divided attention.

PSYC 463 *Concepts and Categories* (3 credits)

Prerequisite: PSYC 364. This course provides an advanced introduction to theories of conceptual representation and processes of categorization. It reviews the empirical research in these fields, including studies with normal and impaired populations.

PSYC 464 *Judgment and Decision Making* (3 credits)

Prerequisite: PSYC 364. This course is an introduction to the cognitive and affective processes involved in evaluating options and choosing between them. Major theories and empirical studies are reviewed from an interdisciplinary perspective that includes both cognitive science and neuroscience and that draws on research carried out on humans and on other animals.

PSYC 465 *Language* (3 credits)

Prerequisite: PSYC 364. This course covers the cognitive, developmental, and social aspects of language and human communication. Topics may include linguistic theory, language acquisition, language comprehension and production, the biological bases of language, reading, speech perception, and second-language development.

NOTE: Students who have received credit for PSYC 395 may not take this course for credit.

PSYC 466 *Cognitive Development* (3 credits)

Prerequisite: PSYC 333 or 364. This course provides an advanced introduction to the development of children's thinking, from infancy through the elementary-school years. The goal of the course is to familiarize students with recent theory and research on the cognitive development in children. Topics include the development of language, perception, concept, social cognition, and memory.

PSYC 467 *Learning* (3 credits)

Prerequisite: PSYC 351. This course is a continuation of PSYC 351; it presents a more focused and thorough treatment of more advanced topics in learning. These may include developmental aspects of learning, animal memory and cognition, human applications of conditioning principles, biological constraints on learning, and the physiology of learning and memory. Different sections of the course may cover different sets of topics.

NOTE: Students who have received credit for PSYC 347 may not take this course for credit.

PSYC 468 *Cognitive Science Advanced Issues* (3 credits)

Prerequisite: Permission of the Department. This course addresses the most recent advanced issues of contemporary interest in cognitive science. The main topic of the course changes from one term to the next. Possible topics include memory, attention, concept formation, category representation, decision-making, reasoning, language, intelligence, creativity, skill acquisition, cognitive and language development, or the neural bases of cognitive functioning. Students should consult with the Psychology Department for information on the central course topic for the current year.

NOTE: Students who have received credit for this topic under a PSYC 398 number may not take this course for credit.

PSYC 483 *Directed Readings in Psychology* (3 credits)

Prerequisite: PSYC 311, 316; permission of the Department. This course is designed for the advanced student wishing to do independent, individually supervised literature research on a specific topic in psychology. This research culminates in a written report. Students should have a well-defined topic and a faculty supervisor, typically selected from within the Psychology Department, before registering for this course.

NOTE: Students who have received credit for PSYC 436 may not take this course for credit.

PSYC 485 *Specialization Project* (6 credits)

Prerequisite: PSYC 311, 316; permission of the Department. This seminar provides students with experience in the design, conduct, analysis, and reporting of independent research in the major areas of psychology. The research is undertaken under the supervision of a faculty member.

NOTE: Students who have received credit for PSYC 400 may not take this course for credit.

PSYC 487 *Advanced Directed Research in Psychology* (3 credits)

Prerequisite: PSYC 485 or 495; permission of the Department. This course is for students who have completed a specialization project or honours thesis and wish to conduct an additional research project. Under the supervision of a faculty member, typically from within the Department, the student carries out an independent research project and completes a written report. The area of study is decided upon through consultation with the faculty member.

PSYC 490 *Honours Seminar Topics* (3 credits)

Prerequisite: PSYC 311, 316; permission of the Department. The aim of this seminar is to provide a forum for the discussion of topics relating to current knowledge, theory, and methods in psychology, and to help students achieve a critical understanding of psychology. Topics may include learning, interpersonal relations, human development, perception, cognition, subjective well-being, or language. Emphasis is on current theory as it relates to selected topics within psychology.

NOTE: Students who have received credit for PSYC 421 may not take this course for credit.

PSYC 491 *Honours Seminar Issues* (3 credits)

Prerequisite: PSYC 311, 316; permission of the Department. The aim of this seminar is to provide a forum for the discussion of issues relating to current knowledge, theory, and methods in psychology, and to help students achieve a critical understanding of psychology. Issues may include social and developmental processes, motivation, emotion, or the biological bases of behaviour. Selected issues from these areas are discussed from theoretical perspectives specific to given phenomena.

NOTE: Students who have received credit for PSYC 422 may not take this course for credit.

PSYC 495 *Honours Thesis* (6 credits)

Prerequisite: PSYC 311, 316. Open to final-year honours students with permission of the Department. This course requires the student to propose and conduct a study, and submit a thesis written according to the APA format. Students are also required to give an oral presentation in class on their proposal and on their final thesis. The work is supervised by a faculty member selected by the student, typically from within the Psychology Department.

NOTE: Students who have received credit for PSYC 430 may not take this course for credit.

31.270

RELIGION

Faculty

Chair

LORENZO DITOMMASO, PhD McM., Associate Professor

Distinguished Professors Emeriti

FREDERICK BIRD, PhD Calif.(Berkeley)

MICHEL DESPLAND, ThD Harv.

JACK LIGHTSTONE, PhD Brown

SHEILA McDONOUGH, PhD McG.

Professors

RICHARD FOLTZ, PhD Harv.

MICHAEL OPPENHEIM, PhD Calif.(Santa Barbara)

Hindu Studies Chair

T.B.A.

Associate Professors

DONALD BOISVERT, PhD Ott.

LYNDA CLARKE, PhD McG.

NAFTALI COHN, PhD Penn.

CARLY DANIEL-HUGHES, ThD Harv.

MARC DES JARDINS, PhD McG.

SHAMAN HATLEY, PhD Penn.

NORMA JOSEPH, PhD C'dia.

LESLIE ORR, PhD McG.

NORMAN RAVVIN, PhD Tor.

Assistant Professor

HILLARY KAELL, PhD Harv.

Quebec and Canadian Jewish Studies Chair

IRA ROBINSON, PhD Harv., Professor

Senior Lecturer

MARC LALONDE, PhD C'dia.

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Annex FA, Room: 101

514-848-2424, ext. 2065

religion.concordia.ca

Department Objectives

The Department of Religion is dedicated to the academic study of various faiths and of social and cultural phenomena affected by religions. The curriculum includes the comparative study of many religious traditions of the world. At both the undergraduate and graduate levels, students are encouraged to develop an understanding of at least two religious traditions. Whatever the student's special focus, the informed appreciation of the beliefs and values of other cultures is considered an essential dimension of education for today's world.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

The Department of Religion requires a statement of intent with the application for honours programs.

60 BA Honours in Religion

- 12 In a language related to thesis; or in a related discipline such as Anthropology, Classics, English Literature, History, Philosophy, Sociology, Women's Studies
- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 21 From area of primary concentration*
- 6 From area of secondary concentration*
- 6 RELI elective credits at the 300 or 400 level
- 3 RELI 409³
- 6 RELI 410⁶

*See areas of concentration.

42 BA Major in Religion

- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 21 From area of primary concentration*
- 6 From area of secondary concentration*
- 6 RELI elective credits at the 300 or 400 level
- 3 RELI 409³

*See areas of concentration.

24 Minor in Religion

- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 18 RELI elective credits (chosen in consultation with the departmental advisor)

60 BA Honours in Judaic Studies

- 12 Chosen from: HEBR 210⁶, 241³, 242³; RELI 401³
Students who demonstrate fluency in Hebrew by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.
- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 3 RELI 220³
- 9 Chosen from RELI 301³, 326³, 327³, 328³
- 9 Chosen from RELI 329³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³
- 6 Chosen from RELI 223³, 224³, 225³, 226³, 302³, 316³, 318³, 319³, 320³, 321³, 322³, 323³, 324³, 325³ or other appropriate courses approved by the departmental advisor
- 3 Chosen from RELI 332³, 334³, 335³ or other appropriate courses approved by the departmental advisor
- 3 RELI elective credits at the 300 or 400 level
- 3 RELI 409³
- 6 RELI 410⁶

48 BA Major in Judaic Studies

- 12 Chosen from HEBR 210⁶, 241³, 242³; RELI 401³
Students who demonstrate fluency in Hebrew by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.
- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 3 RELI 220³
- 9 Chosen from RELI 301³, 326³, 327³, 328³
- 9 Chosen from RELI 329³, 332³, 334³, 335³, 336³, 338³, 339³, 381³, 391³, 392³, 395³, 407³ or other appropriate courses approved by the departmental advisor
- 6 Chosen from RELI 223³, 224³, 225³, 226³, 302³, 316³, 318³, 319³, 320³, 321³, 322³, 323³, 324³, 325³ or other appropriate courses approved by the departmental advisor
- 3 RELI 409³

24 Minor in Judaic Studies

- 6 Chosen from RELI 209³, 210³, 214³, 215³
- 3 RELI 220³
- 6 Chosen from RELI 301³, 326³, 327³, 328³
- 9 RELI elective credits at the 300 or 400 level chosen in consultation with the departmental advisor

- 42 BA Major in Southern Asia Studies**
- 6 Required in first year: HIST 261³, RELI 215³
 - 6 Chosen from HIST 364³, 393³, 462³ and/or any Special Topics course(s) on Southern Asia in the same Department
 - 9 Chosen from RELI 224³, 225³, 226³, 318³, 340³, 341³, 346³, 347³, 348³, 350³, 384³
 - 3 Chosen from POLI 336³ and/or any Special Topics course(s) on Southern Asia in the same Department
NOTE: Any of the above courses may be substituted by a Special Topics course on Southern Asia in the same Department and approved by the departmental advisor.
 - 18 Chosen from any relevant courses in the core disciplines, including Special Topics courses (not already counted towards the above requirements) or courses dealing with Southern Asia in the departments of Economics, Education, English, Geography, Planning and Environment, Sociology/Anthropology, the Faculty of Fine Arts, and the John Molson School of Business
- 24 Minor in Southern Asia Studies**
- 6 Required: HIST 261³; RELI 215³
 - 6 Chosen from ECON 311³, 319³; HIST 364³, 393³, 462³; POLI 336³
 - 6 Chosen from RELI 224³, 225³, 226³, 318³, 340³, 341³, 346³, 347³, 348³, 350³, 384³; FMST 335³
NOTE: Any of the above courses may be substituted by an appropriate course on Southern Asia approved by the departmental advisor.
 - 6 Elective credits from any courses dealing primarily with Southern Asia, and Special Topics courses in any discipline with a Southern Asia theme or focus
- 24 Minor in Iranian Studies**
- 3 RELI 318³
 - 3 Chosen from ANTH 322³ or ANTH courses dealing with the peoples and cultures of Iran or Persia and approved by the departmental advisor
 - 3 Chosen from CLAS 230³ or HIST 219³; HIST 242³, 369³, 467³; POLI 391³, 395³
 - 3 Chosen from RELI 224³, 316³, 317³, 319³, 383³, 411³
 - 6 Chosen from RELI 313³, 412³, 414³ or RELI courses dealing with the religions of Iran or Persia and approved by the departmental advisor
 - 6 Chosen from any courses dealing primarily with Iran or the Eurasian regions historically influenced by Iranian and Persian culture and approved by the departmental advisor
NOTE: Any of the above courses may be substituted by an appropriate course approved by the departmental advisor.
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Areas of Concentration

- A. Asian Religions (21 credits)**
- 21 Chosen from RELI 224³, 225³, 226³, 316³, 318³, 319³, 340³, 341³, 346³, 347³, 348³, 350³, 360³, 361³, 364³, 383³, 384³, 385³, 411³ or other appropriate courses approved by the departmental advisor
- B. Christianity (21 credits)**
- 3 RELI 223³
 - 12 Chosen from RELI 301³, 302³, 320³, 321³, 322³ or other appropriate courses approved by the departmental advisor
 - 6 Christianity elective credits at the 300 or 400 level
- C. Judaism (21 credits)**
- 6 RELI 220³, 301³
 - 6 Chosen from RELI 326³, 327³, 328³ or other appropriate courses approved by the departmental advisor
 - 9 Judaic Studies elective credits at the 300 or 400 level
- D. Women and Religion (21 credits)**
- 3 RELI 233³
 - 6 Chosen from RELI 381³, 382³, 383³, 384³, 385³, 391³, 392³ or other appropriate courses approved by the departmental advisor
 - 9 Chosen from RELI 372³, 380³, 387³, 389³, 406³ or other appropriate courses approved by the departmental advisor
 - 3 Women and Religion elective credits at the 300 or 400 level
- E. Islam (21 credits)**
- 6 Chosen from RELI 224³, 316³, 319³
 - 12 Chosen from RELI 314³, 315³, 317³, 318³, 348³, 383³, 412³; from 316³ or 319³ if not taken to satisfy requirements in first category; from 411³ or 416³ if not taken to satisfy requirements in third category; or other appropriate courses approved by the departmental advisor
 - 3 Chosen from RELI 411³ or 416³; or other appropriate courses approved by the departmental advisor
NOTE: Majors in Religion concentrating in Islam may count up to six credits of Arabic toward the Islam concentration. Honours students concentrating in Islam must take at least nine credits of Arabic, to be counted in the 12-credit "language related to thesis" category of the honours program. Honours students may also count an additional six credits of Arabic toward their program.
NOTE: Students who demonstrate fluency in Arabic by a written examination may substitute RELI courses at the 300 and 400 level approved by the departmental advisor.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

RELI 209 *The Religious Imagination* (3 credits)

This course explores the conceptual elements that underlie the religious experience. These elements include the notion of the sacred, beliefs, cosmologies and myths, the origins and understanding of evil, ethics and salvation.

NOTE: Students who have received credit for RELI 211 may not take this course for credit.

RELI 210 *Religion in Practice* (3 credits)

This course focuses on the day-to-day practice of religious traditions. Included are the expression of religious experiences through art, music, and scripture; transmission of these religious expressions through ritual, worship and mystical/ecstatic practices; and the construction and maintenance of different types of religious authority and communal identities.

NOTE: Students who have received credit for RELI 211 may not take this course for credit.

RELI 214 *Religions of the West* (3 credits)

This course surveys the history, doctrines, institutions, and practices of religions that arose in Western Asia, including Judaism, Christianity, and Islam. The course examines contemporary forms of religious life in those parts of the world where these traditions have spread, as well as indigenous religions. The course explores the religious activities and experiences of both women and men within these various traditions.

NOTE: Students who have received credit for RELI 213 or RELZ 214 may not take this course for credit.

RELI 215 *Religions of Asia* (3 credits)

This course surveys the history, doctrines, institutions, and practices of religions that have arisen in and spread throughout Asia, including Hinduism, Buddhism, and the religions of China and Japan. The course explores the religious activities and experiences of both women and men within these traditions.

NOTE: Students who have received credit for RELI 213 or RELZ 215 may not take this course for credit.

RELI 216 *Encountering Religions* (3 credits)

This course serves as an introduction to some of the religions of today's world, and explores several contemporary contexts where people of diverse religious backgrounds come into contact with one another.

NOTE: Students who have received credit for RELZ 216 or for this topic under a RELI 298 number may not take this course for credit.

RELI 218 *Wisdom, Traditions, and Enlightenment* (3 credits)

Most of the world's religions have formulated a set of teachings which convey an idea of the fundamental realities of the nature of the universe, and of the path by which humankind can come to a realization of these realities. Such a realization is frequently equated with the ultimate goal of enlightenment as liberation, or knowledge of/union with the transcendent. This course explores several of the religious traditions which have developed texts and practices leading to wisdom.

NOTE: Students who have received credit for RELZ 218 or for this topic under a RELI 298 or RELZ 298 number may not take this course for credit.

RELI 220 *Introduction to Judaism* (3 credits)

This course examines the continuities and changes in Jewish society, institutions, concepts, and traditions from ancient times to the present. It also provides an introduction to Jewish practice and belief in its contemporary diversity, including a survey of the rituals, symbols, and ceremonies of Jews today.

NOTE: Students who have received credit for RELI 222 may not take this course for credit.

RELI 223 *Introduction to Christianity* (3 credits)

This course provides an introduction to key developments and enduring structures in the historical evolution of Christianity. It examines the variety of expressions of faith that are embodied by the Eastern churches (e.g. Greek and Russian Orthodox, Syrian) and the Western (e.g. Roman Catholic, Protestant), and traces the ways in which institutions, symbols, and rituals have in the past and continue today to carry forward the Christian tradition as a world religion in a variety of cultural contexts.

RELI 224 *Introduction to Islam* (3 credits)

This course explores the religious tradition of Islam through the beliefs and practices of the vast number of Muslims scattered throughout the world — in the Middle East, Indonesia, India and Pakistan, North America, and other places. It examines the scriptures and common rituals or "pillars" of the religion, as well as expressions of life and culture in the past and present such as the law (shariah), the Islamic arts, and the mystical orders.

RELI 225 *Introduction to Hinduism* (3 credits)

This course surveys Hinduism in its diverse history, sects, schools of thought, sacred texts, spiritual practices, and contemporary interpretations. Students focus on several prominent dimensions of the tradition, including the Hindu temple, mysticism and metaphysics in the Upanishads, karma and rebirth, dharma (religious duty and the cosmic/social order), moksha (liberation), gender and caste, devotional traditions, and narrative literatures.

RELI 226 *Introduction to Buddhism* (3 credits)

This course introduces students to the diversity of forms of Buddhism that have emerged in history and are practised today. It examines those aspects that are shared in common by Buddhists all over the world, including reverence for the Buddha, support of the monastic order, and adherence to the Buddha's teachings. The course explores the ways in which these ideals and beliefs are expressed through such Buddhist practices as worship, study, pilgrimage, and meditation.

NOTE: Students who have received credit for RELI 350 or 364 may not take this course for credit.

RELI 233 *Introduction to Women and Religion* (3 credits)

This introduction to the particular problems and issues in the study of women and religion uses case studies from various religious traditions. The course presents a survey of the different levels of participation, the complex ritual activities, and the intriguing divine imagery associated with women that are found in many religious traditions. Questions pertaining to the contemporary feminist discourse on such topics as witchcraft, matriarchy, and goddess religions are also explored.

RELI 298 *Selected Topics in Religion* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

RELI 300 *Cults and New Religious Movements in North America* (3 credits)

This course takes a sociological and historical approach towards understanding new religious movements (NRMs), popularly known as "cults." The course examines the reasons for their controversial status in society, and undertakes a survey of the beliefs, rituals, leadership, membership, recruitment strategies, and social organization of a number of specific NRMs.

NOTE: Students who have received credit for RELI 217 or for this topic under a RELI 298 number may not take this course for credit.

RELI 301 *Biblical Studies I: The Hebrew Bible* (3 credits)

An introduction to the methods and results of biblical scholarship with regard to the history, culture, and religion of ancient Israel. Particular attention is given to the major religious affirmations and theological concepts of the Hebrew Bible that have become central in the subsequent development of Judaism.

RELI 302 *Biblical Studies II: Christian Origins* (3 credits)

A critical survey of Christian origins, this course focuses on New Testament literature and considers historical setting, history of text, religious and cultural significance. Attention is paid to extra-canonical literature and other relevant sources.

RELI 307 *Christian Mystics* (3 credits)

Based on the study of significant texts, this course offers a historical and sociological exploration of the range of mystical and ecstatic experiences within the Christian tradition. Special consideration is given to the role which gender plays in understanding these experiences.

RELI 310 *Self and Other: Identity and Ethical Development* (3 credits)

This course considers ethical issues arising in the context of personal and interpersonal relations, families and friendships, and health and medical care. These issues are discussed in relation to traditional and contemporary moral perspectives, both religious and non-religious. Topics covered may vary from year to year, but may include discussions of conscience and career, privacy, sexual relations, harassment, substance abuse, abortion, euthanasia, and gay and lesbian relations.

NOTE: Students who have received credit for RELZ 310 may not take this course for credit.

RELI 312 *Justice and Social Conflict in a Globalized World* (3 credits)

This course considers ethical issues arising in the context of social, legal, and political relations. These issues are discussed in relation to both traditional and contemporary moral perspectives, both religious and non-religious. Topics covered typically include discussions of social and economic inequality, welfare, poverty, just punishment, business ethics, public ethics, economic development, and sustainable development.

NOTE: Students who have received credit for RELI 332 or RELZ 312 may not take this course for credit.

RELI 313 *Zoroastrianism* (3 credits)

Zoroastrianism, though counting no more than a few hundred thousand practitioners today, is one of the most significant traditions in the history of religions, providing a world-view and ethical framework later adopted by Judaism, Christianity, and Islam. This course covers the 3,000-year history of Zoroastrianism, including controversies surrounding its origins, its contributions to other religions, its eventual decline, and the Zoroastrian diaspora of contemporary times. Readings from the Avesta and other texts are in English translation.

RELI 314 *Muslim Cultures of North America* (3 credits)

This course traces the appearance and growth of Muslim presence in the United States and Canada, from the first immigrant communities in the late-19th century to the present, and the more recent trend of conversion among North Americans. Issues facing Muslim communities such as integration, discrimination, and education are investigated, as well as the emergence of distinctively North American forms of Islamic thought and lifestyle.

NOTE: Students who have received credit for this topic under a RELI 498 number may not take this course for credit.

RELI 315 *Muslim Cultures in Southern Asia* (3 credits)

About one-third of the world's Muslims live in India, Pakistan, or Bangladesh, making Southern Asia the world region with the largest proportion of Muslims. Yet many aspects of Muslim belief and practice in these countries have a distinctively South Asian

flavour and in some cases derive from regional cultural traditions. This course looks at the history of Muslim presence in Southern Asia, including its extensive political and cultural impact from the seventh century to the present, and investigates the complexities of communal identity over the course of that history. The role of Sufism and Muslim contributions to South Asian literature, art, architecture, and music are also explored.

RELI 316 *Classical Islam* (3 credits)

The course explores the various aspects of Muslim civilization from its initial spread from Arabia to Spain, sub-Saharan Africa, India, and China, up to the age of the Ottoman, Safavid, and Mughal empires in the 16th and 17th centuries. Special attention is given to the emergence of schools of law, theology, philosophy, and mystical orders, as well as the literature, arts, and architecture of diverse Muslim societies.

RELI 317 *Sufism* (3 credits)

The course explores the emergence and development of Islamic mysticism beginning with pious individuals in the eighth century and coalescing into institutional forms by the 10th. Attention is given to the teachings of key mystical figures, the Sufi orders, and the social role of Sufism. Sufi poetry, music, and other forms of devotion and practice are studied in the contexts of diverse Muslim societies over the past 1,000 years up to the present.

NOTE: Students who have received credit for this topic under a RELI 379 number may not take this course for credit.

RELI 318 *Shiite Islam* (3 credits)

This course explores the history and ideas of Shiism, from the inception of the movement to the present. The various sects are introduced and treated, including the Twelvers, Ismailis, Zaydis, Druze, and Alawites. Basic Shiite doctrines such as crypto-religion (*taqiyyah*), esoterism, messianism, quietism, and syncretism are considered in comparison with other religions. Study of the modern period treats subjects such as theocracy, political activism, and martyrdom. The course examines the centres of Shiite population: Southern Asia, Iran, Iraq and the Gulf, Lebanon, and North America.

RELI 319 *Modern Islam* (3 credits)

This course surveys some of the main questions raised by modernity for Muslims and the various types of responses to it that Muslims have sought to formulate and put into practice, particularly in terms of how knowledge is defined, how society is governed, and how men and women are to relate to each other and to non-Muslims.

RELI 320 *Catacombs, Crusades and Convents: History of Christianity I* (3 credits)

This first course of the sequence on Christianity, historically considered, examines the life and thought of Christians as a minority in the Graeco-Roman world and their transition to a position of power. The course studies the rise of monasticism after the collapse of the Roman Empire, the construction of medieval Christianity and its flowering with the founding of the Friars amid the great theological syntheses of the 13th century. Saint Augustine, Saint Francis and Aquinas are the key figures studied.

NOTE: Students who have received credit for RELI 303 may not take this course for credit.

RELI 321 *Mystics, Heretics and Reformers: History of Christianity II* (3 credits)

This second course of the sequence on Christianity, historically considered, focuses on the period from 1300 to 1650 and examines the many groupings for alternatives to the hierarchical synthesis proposed by great minds and leading authorities. It concludes with a study of the new orthodoxies established by Protestant reformers (Luther and Calvin) and by the Council of Trent in the 16th century.

NOTE: Students who have received credit for RELI 304 may not take this course for credit.

RELI 322 *From Toleration to Political and Social Activism: History of Christianity III* (3 credits)

This third course of the sequence on Christianity, historically considered, examines the rise of the doctrine of toleration and its progressive implementation by modern nation states. Attention is focused on the transformations that this imposed on Christian belonging and Christian thinking. The course looks at the evolution of the churches from the mid-17th century up to the contemporary period, with particular attention to attitudes toward women, education of children, poverty, slavery and missions.

NOTE: Students who have received credit for RELI 306 may not take this course for credit.

RELI 323 *Honouring the Gods and Feasting with Friends: The Ancient Mediterranean* (3 credits)

This course explores various dimensions of social and religious life among Greeks, Romans, and others in the ancient Mediterranean. With the help of both archaeological and literary sources, the course examines the concrete ways in which ordinary women and men maintained fitting relations with their gods, with their rulers, and with one another, illuminating the religious and cultural contexts in which early Judaism and Christianity emerged.

RELI 324 *On the Margins of Christianity: Heresy, Dissidence and the End of the World* (3 credits)

This course investigates marginal forms of Christianity which have found themselves ignored, excluded, or suppressed by more mainstream Christian groups and institutions. The course explores aspects of the history of heretical movements, mysticism, and apocalypticism. It looks at the world-views and practices associated with such marginal forms of Christianity, placing religious traditions and movements within their broader social, cultural, and political contexts.

NOTE: Students who have received credit for RELI 308 may not take this course for credit.

RELI 325 *Leaders, Rebels and Saints* (3 credits)

This course, which varies in focus from year to year, investigates the lives of controversial or influential women and men in the history of different religious traditions. Going beyond mere biography, the course situates particular figures within their social and

cultural contexts, while dealing with how such prominent figures were viewed, portrayed, and used by others. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 308 may not take this course for credit.

RELI 326 *Ancient Judaism* (3 credits)

This course examines the variety of Judaic expression in the period of Late Antiquity. This includes the concepts, institutions, and literature of both rabbinic and non-rabbinic Judaisms as well as their biblical background. The development of rabbinic systems of thought and law, as well as their expression in rabbinic literature, are considered.

RELI 327 *Medieval Jewish Thought and Institutions* (3 credits)

This course examines the intellectual, religious, and social history of selected Jewish communities during the Middle Ages. Both internal Jewish developments and changing Jewish relations with their non-Jewish neighbours are considered.

RELI 328 *Modern Judaism* (3 credits)

This course surveys the major historical events, sociological and political forces, and intellectual currents which shaped Judaism in the modern period as well as the ways that Jewish communities responded to these forces. Among the topics explored are Emancipation, forms of religious adjustment, anti-semitism, the experience of Jewish communities in Russia and North America, the Holocaust, and Zionism and the state of Israel.

RELI 329 *Israel: Religion and State* (3 credits)

This course studies the emergence and development of the state of Israel, from the beginnings of the Zionist movement to the present time. It also explores the major political, social, and intellectual developments in both the pre- and post-state periods. The role of Judaism within the changing state is a primary focus.

RELI 330 *Montreal Jewish Community* (3 credits)

Exploring the Montreal Jewish community's uniqueness in terms of its ethnic, denominational, political, linguistic and cultural composition, this course examines some of the institutions, along with the buildings, programs, groups and individuals that are located in "Jewish" Montreal. The course focuses on the Jewish community's historical, institutional and social connections to both Montreal society as a whole and other Jewish communities.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 331 *Literature and the Holocaust* (3 credits)

Religious, historical, literary, and political contexts have been applied to come to terms with the events of the Holocaust. All of these are relevant as students read important and provocative novels dealing with such issues as ethics, the relationship between art and history, the use of humour and popular cultural forms, as well as the way that storytelling helps direct our understanding of events that are often said to be incomprehensible. The wider impact of fiction dealing with the Holocaust on the popular media, including film, CD-ROMs, video, and news reporting, is also considered.

NOTE: Student who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 332 *Canadian Jewish Literature* (3 credits)

This course explores the Jewish voice in Canadian literature which can be seen to be the first opening toward a multicultural tradition in this country. Writers such as A.M. Klein, Mordecai Richler, Henry Kreisel, and Leonard Cohen created an English-language tradition of Jewish writing that is varied, provocative, and lively. Students look at novels, short stories, some poetry, memoir, and criticism. Students also consider non-Jewish authors, such as Gwethalyn Graham and Mavis Gallant, who were among the first to write about Jewish characters for an English-speaking Canadian audience. This course allows students to consider issues related to Canadian identity and culture, ethnic studies, and multiculturalism alongside literary questions.

NOTE: Students who have received credit for this topic under a RELI 335 number may not take this course for credit.

RELI 334 *Introduction to Canadian Jewish Studies* (3 credits)

This course introduces the history of the Canadian Jewish community and the themes, personalities, and media which have contributed to Canadian Jewish culture and life. Students explore historical texts, novels, films, and museums in order to gain a sense of the particularity of Jewish culture in Canada and its place in the Canadian multicultural ethic. The relationship of Canadian Jewry to communities in the United States, Europe, and Israel, and to its own past, is also examined.

RELI 335 *Jewish Cultures of Canada* (3 credits)

This course offers students a detailed view by way of history, local culture, creative life, and religious activity of the various centres of Jewish culture in Canada. Instructors make use of a variety of materials to supplement course texts, for example: films, visiting speakers, local tours, and archival resources.

RELI 336 *Sephardic Judaism* (3 credits)

This course studies the social and spiritual life of the various communities within the Sephardi world. Topics include Judaism under Islam; the expulsion and dispersion; Sephardi-Maghrebi Judaism; modern times in Arab lands; Sephardi life in the new world, Europe, and Israel. In addition, the philosophical, Halakhic, biblical, and mystical works of Sephardi Jews are examined.

RELI 338 *Holocaust: Historical Circumstances* (3 credits)

This course examines the historical circumstances that made possible the systematic destruction of European Jewry in the years 1939-45, as well as the process of destruction and the Jewish and world responses to that destruction.

NOTE: Students who have received credit for RELI 357 may not take this course for credit.

RELI 339 *The Impact of the Holocaust on Religious Thought* (3 credits)

This course examines the ramifications of the Holocaust in Jewish and Christian thought. Issues discussed include the problem of evil; suffering; the election of Israel; God's relation to the course of human events.

NOTE: Students who have received credit for RELI 358 may not take this course for credit.

RELI 340 *The Veda, Upanishads, and Religion in Ancient India* (3 credits)

This introduction to the religious concepts, practices, and wisdom of ancient India is based on the literature of the Vedic period, including the Upanishads. The course examines the contribution of various aspects of the Vedic tradition to the development of Hinduism, and explores the interaction among religions in the ancient period.

RELI 341 *Hindu Sadhana: From Yajna to Yoga* (3 credits)

Hinduism has evolved many paths to come in touch with the divine. It presents a philosophy of transformation of the individual through various practices, so that there dawns a realization of transcendent reality. This course examines some of the sadhanas — such as sacrifice, reasoning and wisdom, and yogic samadhi — which developed in the classical period of Hinduism.

RELI 343 *Yoga in History, Thought, and Practice* (3 credits)

This course examines the history, thought, and practices of Yoga in their religious and cultural contexts. In the modern West, Yoga has become popular as a secular form of exercise. However, as this course shows, the diverse Yoga traditions of India have also involved sophisticated analyses of the mind and systems of meditation. Intrinsic to no single religion, Yoga has had roles in most South Asian traditions, including Hinduism, Buddhism, Jainism, and Sufism or Islamic mysticism. The course surveys this rich history, and the various forms of meditative and physical discipline Yoga has entailed.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 344 *Hindu Myth and Narrative: the Epics and Puranas* (3 credits)

This course approaches Hinduism through its narrative literature, especially the great epics (the *Mahabharata* and *Ramayana*) and mythological texts (*Puranas* — the "Ancient Books"). Through stories of gods, devotees, villains, and heroes, the course explores the development of significant themes in the Hindu tradition, from ethics and philosophy to asceticism and devotion. An important focus of the course is the enduring cultural significance of myth and the epics, as retold through the ages in a variety of languages, cultural contexts, and media, including classical and vernacular texts, the oral tradition, drama, dance, and cinema.

RELI 346 *Gandhi, Colonialism, and Beyond* (3 credits)

This course concerns Hindu traditions in the modern world, beginning with the period of colonial British rule in South Asia. Students examine the writings and historical contexts of influential Hindu reformers, intellectuals, and activists, including Ram Mohun Roy, Dayananda Sarasvati, Swami Vivekananda, the Tagores, V.D. Savarkar, and especially Mahatma Gandhi. Issues of focus include the history of the modern idea of Hinduism, responses to European thought and institutions (including Christianity), Hindu understandings of modernity, social change and reform, religious nationalism, contemporary gurus and their transnational movements, and Hinduism in the diaspora.

NOTE: Students who have received credit for RELI 351 may not take this course for credit.

RELI 347 *Religion and the Arts in South and Southeast Asia* (3 credits)

This course is an introduction to the religious art of South and Southeast Asia, including an examination of Hindu, Buddhist, and Islamic architecture, sculpture, painting, and performing arts. The course examines the ways in which sacred art is related to myth and symbol, religious values and goals, ritual, religious experience, and social and political realities.

RELI 348 *Religion and Society in South and Southeast Asia* (3 credits)

This historical and sociological examination of religion's impact on and intersection with the structures of South and Southeast Asian society, explores such issues as caste and class, gender and family relations, links between religion and the state, and relations between Hindu, Buddhist, and Muslim communities.

RELI 350 *Theravada Buddhism* (3 credits)

This course examines the early history, doctrine, institutions, and practices of Buddhism in India, and follows the development of Theravada Buddhism in the countries of Southeast Asia up to the present day.

NOTE: Students who have received credit for RELI 314 may not take this course for credit.

RELI 352 *Topics in Diaspora Studies* (3 credits)

This course treats topics related to the diaspora of religious communities. Topics covered change from year to year, and may include an examination of the history and dynamics of diaspora of a particular community (e.g. the Jewish diaspora, the Hindu diaspora), or the comparative investigation of a particular theme in diaspora studies. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 346 may not take this course for credit.

RELI 353 *Religion and the Arts in the West* (3 credits)

This course explores the way in which the fine arts, literary arts, and performing arts have given expression to, and shaped the experience of, religious realities in the history of the West, and also considers the ways in which, in a more recent and contemporary context, art may be seen as engaging with aspects of divinity and spirituality.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 354 Religion and Film (3 credits)

This course examines films that deal with religious themes — explicitly or implicitly — and provides an opportunity to analyze the language of film as a form of narrative through which cultural and religious ideas are transmitted.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 355 Religion and Violence (3 credits)

This course explores how religion may be seen to engender or exacerbate violence, as well as the ways that religion may critique, prevent or even offer alternatives to violence. Sacred writings, theologies, rituals and communal actions of particular communities are studied, as well as notions of the self, the group, others, outsiders and enemies. In particular, the life-work and writings of such key figures as Mahatma Gandhi and Martin Luther King are studied in order to provide some religious perspectives on the relationship between non-violence and the resistance to injustice.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 360 Religions of China (3 credits)

This course concentrates on the historical development of Chinese religions from the earliest periods of Chinese civilization to contemporary times. It investigates the relationships among the classical religious traditions as portrayed through scriptures, commentaries, and rituals. Focus is placed on the unfolding of the five great religious currents of China: the classical imperial cults, Daoism, Confucianism, Buddhism, and popular cults.

NOTE: Students who have received credit for RELI 349 may not take this course for credit.

RELI 361 Religions of Japan (3 credits)

This course uses a historical approach to understand the development of Japanese religious traditions. It investigates popular Japanese cults and religions, the assimilation of foreign religious thought and practices, and the implantation of Buddhism, Confucianism, and other models from China. Religious sectarianism, state-regulated religious schools, cults, and the role of religion in the establishment of Japanese national identity are also studied.

NOTE: Students who have received credit for RELI 349 may not take this course for credit.

RELI 362 Religions of Tibet (3 credits)

The goal of this course is to familiarize students with current issues in Tibetan studies and to enhance understanding of Tibetan religion in Tibet, China and the rest of the world. It examines the "nameless" popular religions of Tibet, including mountain cults, shamanism, spirit possession and a variety of manifestations of popular religion. Students become familiar with the main schools of Tibetan Buddhism and the Bon religion, their history, dogma, lineages, philosophical enquiries, ritual and ascetic practices.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 363 Jainism (3 credits)

This course provides an introduction to the religious culture of the Jain community. The early history of the Jain tradition in India is explored through a consideration of the life stories of the great teachers of the tradition, of the classical systems of Jain philosophy, cosmology and ethics, and of the rich traditions of Jain narrative literature and art. Contemporary Jainism, including the religious practices of monks, nuns, laymen, and laywomen, and the contemporary relevance of Jainism's central precept of universal non-violence (ahimsa) are also studied.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 364 Mahayana Buddhism (3 credits)

This course studies the origins and evolution of the Mahayana Buddhist in India, and the spread and growth of various Mahayana traditions in East Asia. It examines developments in texts, doctrine, philosophy, ethical ideals, practices (worship and meditation), and institutions.

RELI 365 Religion and Literature (3 credits)

This course provides an opportunity to study a selection of literary works (such as novels and poems) with a focus on the religious issues raised by their content and their form. The course explores the relations between current trends in literary criticism and the interpretation of religious language, with its use of symbol, metaphor, parable, and myth.

RELI 367 Ritual, Ceremony and Celebration (3 credits)

Ritual is one of the essential components of religious practice. This course explores the place and function of ritual in a variety of religious traditions, both historical and contemporary. It looks at theoretical understandings of religious ritual, and examines such rituals as sacrifice, rites of passage, worship and ascetic and meditative practices in their theological, social, and cultural contexts.

RELI 368 Religion in Native Traditions (3 credits)

This overview looks at the many diverse religious traditions of the First Nations populations in North America. The course examines the sacred stories, ceremonial patterns, life cycle rituals, and religious activities in their varied expressions. Consideration is given to the historical interaction of native government with religious practices.

RELI 369 Religion and Alternative Medicine (3 credits)

This course explores popular forms of alternative medicine and religious healing rituals. It examines the historical and cultural relationships between religious belief, spiritual practices, and types of healing outside the discourses of conventional medical practice. Some of the major issues addressed include miracles and the miraculous, the efficacy of prayer and meditation, gender and alternative modes of healing, and the role of parallel forms of medical knowledge and practice in religious communities.

NOTE: Students who have received credit for this topic under a RELI 298 number may not take this course for credit.

RELI 370 *Topics in Comparative Religion* (3 credits)

This course treats various topics in comparative perspective, examining religious themes as they are represented in two or more religious traditions. Topics covered change from year to year, and may include comparative religious law, comparative ritual, comparative philosophy, or comparative ethics. Specific topics for this course will be stated in the Undergraduate Class Schedule.
NOTE: Students who have received credit for RELI 309 or 369 may not take this course for credit.

RELI 371 *Religion and Healing* (3 credits)

This course looks at the interactions between religious beliefs and practices and healing beliefs and practices, both in traditional and contemporary settings. Topics typically include examinations of shamanism, folk medicine, spiritual healing, complementary and alternative medicine, and the relations between faith and established medical practices. Topics are discussed in relation to various religious traditions.

RELI 372 *The Human Body in Religious Thought and Practice* (3 credits)

This study of religious attitudes to the human body focuses on the body as a foundation for religious symbolism, religious community and identity, ritual, and religious experience. The course examines these problems with reference to various religious traditions. Issues examined include purification of the body; eating; mortification and mutilation of the body; attitudes towards dead bodies and physical immortality; attitudes towards bodies as gendered; embodied spirituality and incarnation.

RELI 373 *Introduction to Mysticism* (3 credits)

This course examines the concepts of mysticism articulated by contemporary scholarship. It then looks at mystical texts and experiences from a variety of religious traditions both comparatively and with respect to their position within the dynamic of their own traditions.

RELI 374 *Religion and Science* (3 credits)

How has religion viewed science, and how has science viewed religion? This course explores the relationship between religion and science both within particular religio-cultural contexts and in comparative perspective. The contexts considered may include those belonging to Christian, Jewish, Muslim, Hindu, or other Asian worldviews. Points of conflict and contact between scientific and religious discourses are also explored.

NOTE: Students who have received credit for RELZ 374 may not take this course for credit.

RELI 375 *Religions of Canada* (3 credits)

This course examines the role religions have played in the development of Canada as well as their influence in Canadian society, politics, and culture. Attention is paid as well to the interaction of different religious groups in the Canadian context.

NOTE: Students who have received credit for RELI 363 may not take this course for credit.

RELI 376 *Psychology of Religion* (3 credits)

This survey looks at various perspectives and methods used in psychology as they are relevant to understanding the role and value of religion for the individual. The course examines the ideas of such figures as William James, Freud, and Jung, among others, and considers such topics as intense religious experience, conversion, images of God, myth and symbol, ritual, and religious and moral development.

RELI 377 *Topics in Religious Interaction* (3 credits)

This course treats topics relating to contacts between and interactions among different religious traditions. Topics covered change from year to year, and may include an examination of religions in contact within a particular historical or contemporary setting, or the comparative investigation of a particular theme, such as syncretism, dialogue, religious war, or religious encounter in the context of colonialism. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 367 may not take this course for credit.

RELI 378 *Death and Dying* (3 credits)

This course provides a comparative perspective on the variety of conceptions and practices related to death and dying that are found in different world religions. In addition, the course considers how people in contemporary North American society utilize traditional religious concepts and rituals, scientific understandings and medical procedures, or innovative combinations of ideas and practices with which to cope.

RELI 380 *Sexuality in the History of Religions* (3 credits)

This course examines, from a comparative and historical perspective, the interplay between religion and sexuality. It looks at the development of attitudes towards sexuality within diverse religious traditions, and religious manifestations of sexuality. Topics include, among others: human reproduction, gender roles and identity, birth control, abortion, celibacy, sexual variance, and homosexuality.

RELI 381 *Women and Religion: Judaism* (3 credits)

This course explores the status and religious roles of women within the Judaic tradition. Its focus is on the practice of the religion, especially the ritual and legal spheres. The relationship between common practice, popular attitudes, and formal legal principles is examined in order to inquire into issues of gender and religion.

RELI 382 *Women and Religion: Christianity* (3 credits)

The focus of the course is the role of women and the conflicting patterns of gender construction in the history of Christianity. Through a critical use of primary and secondary sources, both visual and textual, the course explores the sources of women's power and subordination in order to illuminate the relationship between gender and the Christian tradition.

RELI 383 *Women and Religion: Islam* (3 credits)

This course explores past and present debates among Muslims about the ideal status of women in Islam. The historical and legal background — the material of the debate — is examined first. The class then considers how a variety of discourses, ranging from conservative to Muslim-feminist, treat and manipulate this material.

RELI 384 *Women and Religion: Hinduism* (3 credits)

This course examines the roles and activities of Hindu women. Issues to be considered include the construction in history of models for the "Hindu woman" and the ways in which such models have shaped Hindu women's lives and experience, the religious activities of Hindu women, the contemporary concerns. The relation between abstract Hindu conceptions of "the feminine" — as a force to be revered, regulated, or repressed — and the actual circumstances and activities of Hindu women, both in the present and in the past, is discussed.

RELI 385 *Women and Religion: Buddhism* (3 credits)

This course explores the situation, activities, and experiences of women within Buddhism. Using an historical approach, the course examines the circumstances of women in early Buddhism, and traces subsequent developments in India, Tibet, Southeast Asia, the Far East, and the West, up to the present day.

RELI 386 *Witchcraft, Magic and Religion* (3 credits)

This course approaches the study of magic, witchcraft, and religion from a variety of perspectives. Taking examples from indigenous cultures, the ancient world, medieval Europe, the early modern period and contemporary movements, the practices and rituals that have been labelled magic or witchcraft are examined, along with the responses to them. The course explores how magicians and witches view themselves, how different cultures relate to them, and how magic, witchcraft, and religion merge and diverge.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 387 *Goddesses and Religious Images of Women* (3 credits)

This comparative survey of female divinity and feminine imagery studies various religious traditions. Among the issues to be explored are the imaging of goddesses as mothers; the conception of forces like fertility, energy, materiality, and knowledge as feminine; the correspondences and relations between goddesses and women; and the contemporary feminist recovery of the Goddess.

RELI 389 *Women's Ritual: Expressions and Expertise* (3 credits)

This comparative examination of the contexts and patterns of women's ritual lives looks at various religious traditions. In addition to considering women's activities in formal or public ritual contexts, this course focuses especially on the importance of women as ritual specialists and authorities in the context of the home.

RELI 391 *Women in Jewish History: Ancient and Medieval* (3 credits)

This course examines the lives and experiences of Jewish women from the late antique period through and including the medieval. Using primary and secondary materials, the class inquires into the varieties of women's encounter with history. The differences between communal standards and individual exploits are highlighted, as are geographic distinctions. Through a critical reading of Jewish sources and historians' accounts, questions of methodology and theory are addressed.

RELI 392 *Women in Jewish History: Modern* (3 credits)

This course examines the lives and experiences of Jewish women in the modern period. The immigrations to North America and the subsequent development of the community provide the framework for investigating Jewish women's encounter with and contribution to modern Jewish life. The main focus is on North America, using primary sources such as fiction, biography, and autobiography. The influence of denominational differences and feminist challenges complete the survey.

RELI 394 *History of Satan: Evil Personified in Judaism and Christianity* (3 credits)

This course investigates the origins, development, and significance of personified evil, that is Satan and his demons, in early Judaism and in the history of Christianity. Consideration is given to some of the most important literary and visual depictions of this figure and his story from the ancient world through the Middle Ages to present day. The course sheds light on how intellectuals thought of this figure and also how Satan came to play an important role in popular culture down through the centuries.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 395 *Studies in Jewish Thought and Philosophy* (3 credits)

By means of the analysis of particular issues, thinkers, and texts, this course explores the character of Jewish philosophy. Issues in Jewish philosophy that may be examined include the relationship between faith and reason, the understanding of God, Judaism and the inter-human, the powers and limits of philosophical understanding.

RELI 396 *Food and Religion* (3 credits)

This course examines food cultures and food rituals and explores religious meanings and the making of religious identities. The preparing and sharing of food defines religious community and expresses religious values. In looking at food in several world religions, this course focuses on how food can serve as a medium of transmission and transaction, and on the roles that women and men, gods and ancestors, and other beings and forces have in this network.

NOTE: Students who have received credit for this topic under a RELI 398 number may not take this course for credit.

RELI 397 *Kabbalah and Jewish Mysticism* (3 credits)

This survey of kabbala, the Jewish mystical tradition, places emphasis on the study of representative Jewish mystical texts and socio-historical context for the developing mystical traditions. It includes the development of the messianic idea, Merkava mysticism, Hasidei Ashkenaz, Kabbalah, Sabbatianism, and Hasidism. The current popularity of Kabbalah is also addressed.
NOTE: Students who have received credit for this topic under a RELI 379 number may not take this course for credit.

RELI 398 *Selected Topics in Religion* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

RELI 401 *Studies in Hebrew Texts* (3 credits)

Prerequisite: HEBR 210, 241, 242; or permission of the Department. A reading of representative selections of classical and modern Hebrew texts. Attention is paid to the historical and philosophical background of the texts.

RELI 403 *Questions and Controversies in Christianity* (3 credits)

Prerequisite: Six credits in 300-level Christian Studies courses or permission of the Department. This course, which varies in focus from year to year, explores themes that have been of critical significance and the focus of contest and debate within the history of Christianity. This course situates such conflicts and discussions among Christian groups, individuals, institutions, and traditions within broader social, political, and cultural contexts. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 362 may not take this course for credit.

RELI 406 *Feminist Hermeneutics and Scripture* (3 credits)

This feminist critical reading of sacred texts focuses on the rediscovery of women in holy scriptures. This course is for the advanced student able to work with primary sources. Different texts may be considered such as Hebrew Bible, New Testament, Koran, Hindu and Buddhist scriptures.

RELI 407 *Topics in Judaic Studies* (3 credits)

This course deals with advanced topics in Judaic Studies. Topics covered change from year to year, and may include Jewish law, Jewish ritual, and Jewish mysticism. Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: Students who have received credit for RELI 394 or 397 not take this course for credit.

RELI 409 *Methodology and the Study of Religion* (3 credits)

Prerequisite: Permission of the Department. This course examines the various methodological approaches that inform the comparative study of religion. Questions investigated pertain to the collection and interpretation of evidence, the types of resources available and techniques used, the complex differences between men's and women's religious experiences and expressions, as well as the impact of significant theoretical approaches on the analysis of religion.

RELI 410 *Honours Thesis* (6 credits)

Prerequisite: Honours standing in Religion or Judaic Studies. The student works with an individual faculty member in a particular field of religious or Judaic studies. Students are asked to produce a sustained piece of written work to be read by their advisor and at least one other member of the Department.

NOTE: Students who have received credit for RELI 499 may not take this course for credit.

RELI 411 *Studies in Qur'an and Hadith* (3 credits)

Prerequisite: Any two Religion courses in Islam or permission of the Department. Selected readings from the Qur'an and Hadith serve as a basis for examination of issues such as historical background, text formation, and function of the scriptures within the tradition, including the Law. Classical and modern exegeses of selected passages are also considered. Knowledge of Arabic is not necessary, but the original texts will be made available to students with knowledge of the language.

RELI 412 *Religions of Iran* (3 credits)

Iran is one of the major birthplaces of world religions, including Zoroastrianism, Manichaeism, and the Baha'i faith, as well as numerous minor sects. Iranian culture has also played a major role in informing and transforming Judaism, Christianity, Buddhism, and Islam. This course covers the long history of Iranian civilization in terms of the religious life of Iranians and the many other peoples who have been affected and influenced by Iranian society from the Mediterranean world to South and East Asia.

NOTE: Students who have received credit for this topic under a RELI 498 number may not take this course for credit.

RELI 413 *Classical Persian Literature* (3 credits)

Readings of selected poetry and prose from the rise of classical Persian until the 19th century allow students to explore the language, thought, and culture of Iranian civilization. Tutorial for advanced students; knowledge of Persian required.

RELI 414 *Rumi and the Masnavi* (3 credits)

Students explore Islamic mysticism through the 13th-century masterpiece of Persian mystical lore, the *Masnavi* of Jalal al-Din Rumi. Perspectives from Sufism, Islamic doctrine, and comparative mysticism are applied in selected readings. Although the course is given in translation, native speakers of Persian are invited to read the original texts.

RELI 416 *Studies in Muslim Civilizations* (3 credits)

The Muslim world is composed of many diverse cultures, each with its own distinct history, patterns of society, and religious expressions. The course compares and contrasts the cultures of different Muslim civilizations through their literature, art, religious institutions, and encounters with the modern world.

RELI 496 *Independent Studies in Religion* (3 credits)

Prerequisite: Permission of the Department. The student works with an individual faculty member in a particular field of religious or Judaic studies, as a reading course.

NOTE: Students who have received credit for RELI 495 may not take this course for credit.

RELI 498 *Advanced Topics in Religion* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

Faculty

Chair

GREG M. NIELSEN, PhD Montr., Professor

Sociology

Professors

VALÉRIE DE COURVILLE NICOL, PhD Car.
DANIELLE GAUVREAU, PhD Montr.
FRANCES M. SHAVER, PhD Montr.
ANTHONY J. SYNNOTT, PhD Lond.

Associate Professors

MEIR AMOR, PhD Tor.
BEVERLEY BEST, PhD S.Fraser
DANIEL DAGENAIS, PhD Paris
SATOSHI IKEDA, PhD Mich., PhD S.U.N.Y.(Binghamton)
SYLVIA KAIROUZ, PhD Montr.
KATJA NEVES-GRAÇA, PhD York (Can.)
SHELLEY Z. REUTER, PhD Qu.
BART SIMON, PhD Calif.(San Diego)
JEAN-PHILIPPE WARREN, PhD Montr.

Assistant Professors

MARC LAFRANCE, PhD Oxf.
AMY SWIFFEN, PhD Alta.

Senior Lecturers

AARON BRAUER, MA C'dia.
HUSSEIN MERHI, PhD Montr.

Anthropology

Professors

VERED AMIT, PhD Manc.
SALLY COLE, PhD Tor.
HOMA HOODFAR, PhD Kent
J. DAVID HOWES, PhD Montr.
CHRISTINE JOURDAN, PhD A.N.U.

Associate Professor

MAXIMILIAN C. FORTE, PhD Adel.

Assistant Professors

KREGG HETHERINGTON, PhD Calif.(Davis)
MARK WATSON, PhD Alta.

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
Hall Building, Room: H 1125-44
514-848-2424, ext. 2140

Department Objectives

Sociology and Anthropology examine the processes of social and cultural life in diverse human societies, past and present. These core disciplines of the social sciences are closely linked to the humanities, since various aspects of culture and society concern them all.

The celebration of diversity — cultural, ethnic, and racial — among the students and faculty as well as in the subject matter, is a hallmark of the Department. It offers a full range of undergraduate programs, including joint programs in both disciplines.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the departmental honours advisor normally following the completion of 30 credits.

60 BA Honours in Sociology

- 3 SOCI 203^{3*}
- 6 SOCI 212^{3**}, 213³
- 3 200-level ANTH credits
- 6 SOCI 300⁶
- 3 SOCI 310³
- 6 SOCI 402³, 403³
- 6 SOCI 409⁶
- 6 Chosen from SOCI 410⁶, 415⁶
- 21 SOCI elective credits (maximum of six credits at the 200 level)

60 BA Specialization in Sociology

- 3 SOCI 203^{3*}
- 6 SOCI 212^{3**}, 213³
- 3 200-level ANTH credits
- 6 SOCI 300⁶
- 3 SOCI 310³
- 6 SOCI 402³, 403³
- 6 Chosen from SOCI 410⁶, 415⁶
- 21 SOCI elective credits (maximum of six credits from the 200 level)
- 6 400-level SOCI credits

60 BA Joint Specialization in Anthropology and Sociology

See Anthropology

42 BA Major in Sociology

- 3 SOCI 203^{3*}
- 6 SOCI 212^{3**}, 213³
- 3 200-level ANTH credits
- 6 SOCI 300⁶
- 3 SOCI 310³
- 18 SOCI elective credits (maximum of six credits from the 200 level)
- 3 400-level SOCI credits

30 Minor in Sociology

- 3 SOCI 203^{3*}
- 6 200-level SOCI credits
- 6 SOCI 300⁶
- 6 SOCI elective credits
- 9 300-level SOCI credits

*Students exempted from SOCI 203³ are required to take three credits from SOCI 200- and 300-level courses.

**Students exempted from SOCI 212³ are required to take three credits from SOCI 200- and 300-level courses.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are open to students who have successfully completed SOCI 203 or equivalent, plus at least three credits of 200-level Sociology courses. Students in related disciplines who wish to take cognate courses in Sociology may apply to the Sociology undergraduate advisor for waiver of prerequisites on the basis of equivalent background.
- (2) 400-level courses are open to students who have successfully completed at least six credits from 300-level SOCI courses.
- (3) Entry requirements for Sociology/Anthropology crosslisted courses depend on the discipline through which the course is entered. Once students have taken a crosslisted course under one disciplinary designation they may not take the course under the corresponding designation in the other discipline for credit.

SOCI 203 *Introduction to Society* (3 credits)

An introduction to the sociological study of society. The course begins with a consideration of the concepts, models, and methods used by sociologists. This is followed by an examination of selected substantive areas of social life, ranging from the relations between individuals and groups to total societies.

NOTE: Students who have received credit for SOCZ 203 may not take this course for credit.

SOCI 204 *Sociological Imagination* (3 credits)

Students are introduced to sociological imagination through theoretical, methodological, and empirical examples. They are taught the nature and logic of theory construction, the place of theory in social inquiry, conceptual tools for research, sociological problem construction, various methods of investigation, and styles for the presentation of theoretical or empirical results.

SOCI 212 *Statistics I* (3 credits)

Priority to enrol in this course is given to students who are in a Sociology or Anthropology program. This course provides an introduction to the basic principles of statistics for social scientists. Topics include the concept of the level of measurement, standardization, the interpretation of graphs, measures of univariate distributions, cross classification, elementary measures of association, the logic of controls, and the basic principles of inferential statistics. The emphasis is on the implications of these statistical techniques for theoretical understanding of sociology and anthropology. *NOTE See §200.7*

SOCI 213 *Statistics II* (3 credits)

Prerequisite: SOCI 212. Priority to enrol in this course is given to students who are in a Sociology or Anthropology program. This course is designed to follow Statistics I. Topics include measures of association, the principles of probability and sampling distributions, hypothesis testing, and tests of significance. The emphasis is on the implications of these statistical techniques for theoretical understanding in sociology and anthropology. This course also introduces students to SPSS (statistical software). *NOTE See §200.7*

SOCI 221 *Sociology of Cyberspace* (3 credits)

This course offers a critical examination of the role of electronic communication, information technology, and the Internet on public culture and the organization of social behaviour and interaction.

SOCI 225 *Sociology Through Film* (3 credits)

The course introduces sociological topics through popular films. Cinema, television, and online videos are selected as examples that can be understood through sociological concepts. Students are provided with a general foundation in sociological thought and interdisciplinary approaches for study at more advanced levels.

NOTE: Students who have received credit for this topic under a SOCI 298 number may not take this course for credit.

SOCI 230 *Race and Ethnic Relations* (3 credits)

Prerequisite: See N.B. number (3). Race and ethnicity are examined as bases of social differentiation. Ethnic group relations are analyzed in relation to stratification and the exercise of power. The course further involves exploration of the phenomena of discrimination, prejudice, and intergroup accommodation.

SOCI 244 *Sociology of Leisure* (3 credits)

The course examines the effects of social, economic, and political institutions upon the structure and use of leisure time. The emphasis is upon historical changes and the implications of alienation, anomie, and inequality.

NOTE: Students who have received credit for SOCI 344 may not take this course for credit.

SOCI 250 *Sociology of Culture* (3 credits)

This course provides an introduction to theory and research on the sociology of culture, the organization and dynamics of cultural systems, cultural production and consumption, subcultures, mass culture, popular culture, and strategies of interpretive analysis for the study of culture.

SOCI 261 *Social Problems* (3 credits)

Students examine a range of social problems related to aging, health, poverty, population growth, crowding, crime and justice, gender and gender orientation, inequality, media, non-medical drug use, suicide, globalization, and race, ethnicity, and language issues. Attention is focused on the process by which social problems are defined and recognized, and social policies developed and modified.

SOCI 262 *Social Deviance* (3 credits)

Attention is focused on various forms of anti-social behaviour, particularly those that are socially induced. This course examines the nature, forms, sources, functions, and dysfunctions of deviations from social norms, and the mechanisms of social order and control. Deviance is viewed as a social process of interaction and relationships that derive from the social structure and have consequences for it. Various forms of deviance are considered in terms of contemporary social theory and research.

SOCI 263 *Juvenile Crime and Delinquency* (3 credits)

This course examines the nature of juvenile crime and delinquency and their social causes and consequences. Juvenile crime and delinquency, as special kinds of deviance, receive the focus of attention, with emphasis on criminal justice, juvenile justice, criminal behaviour systems, and social policy on juvenile crime and delinquency.

SOCI 264 *Sociology of Sport* (3 credits)

This course provides a systematic analysis of the social influences upon sport in North America. Special attention is directed to the interrelationships between sport and various social institutions.

SOCI 274 *The Sociology of Aging* (3 credits)

This course examines the changes in society and in living conditions as populations and people age. The sources and the effects of these changes are looked at in the light of several substantive areas and in terms of their implications for social policy. While the major emphasis is on the Canadian experience, some comparative materials are used to widen the perspective.

SOCI 275 *Self and Society* (3 credits)

This course studies the basic concepts and theories regarding social definitions of the Self. Emphasis is placed on ideas regarding personality, motivation, and interpersonal attitudes, viewed in terms of the interplay between actors and social structures.

SOCI 276 *Gender and Society* (3 credits)

Prerequisite: See N.B. number (3). This course explores the social construction of gender categories both historically and in the present. The focus is upon examining the various theoretical perspectives which attempt to explain the ways in which society has organized "masculine" and "feminine" as the basis for social inequalities.

SOCI 280 *Quebec Society* (3 credits)

Focus upon the historic changes in Quebec society, with emphasis upon the period following the Second World War. Examination of issues which have provoked conflicting interpretations, including the Conquest, the nature of Confederation, Quebec nationalism, and the language question.

SOCI 282 *Canadian Society* (3 credits)

Analysis of Canadian social structure and change; the relation of the whole of Canadian society to its constituent elements; the relation of Canadian society to its international environment.

SOCI 285 *Introduction to Law and Society* (3 credits)

Prerequisite: See N.B. number (3). This interdisciplinary course examines the roles law plays in Canada and internationally, from the perspectives of history, political science, anthropology, sociology, and philosophy.

NOTE: Students who have received credit for ANTH 285, HIST 285, or POLI 285, or for this topic under an ANTH 298, HIST 298, POLI 298, or SOCI 298 number, may not take this course for credit.

SOCI 298 *Selected Topics in Sociology* (3 credits)**SOCI 299 *Selected Topics in Sociology*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

SOCI 300 *Classical Social Theory* (6 credits)

Prerequisite: See N.B. number (1). This course involves an examination of the origins of sociology and of the sociological works of 19th- and early-20th-century European theorists, with consideration of the social and political context. Particular emphasis is given to the works of Durkheim, Marx, and Weber. Readings include primary sources and critical commentaries.

SOCI 303 *Indigenous Resurgence* (3 credits)

Prerequisite: See N.B. number (1) and (3). Through a selection of case studies from the Americas, Australia, and New Zealand, this course focuses on contemporary indigenous political struggles, cultural resurgence, race and identity, language revival, urbanization, transnational organization, indigenous media, and debates concerning tradition.

NOTE: Students who have received credit for ANTH 303 may not take this course for credit.

SOCI 310 *Research Methods* (3 credits)

Prerequisite: See N.B. number (1); SOCI 212. This course introduces students to the concepts, language, and techniques of quantitative and qualitative research methods. It familiarizes students with the initiation of research problems, the gathering of accurate data, their analysis and the interpretation and reporting of research findings. This course also introduces students to library research.

SOCI 319 *Environment and Society* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a comprehensive introduction to the main environmental issues and dilemmas affecting contemporary societies around the world, as well as the necessary sociological and anthropological tools to understand and tackle these challenges.

NOTE: Students who have received credit for ANTH 319 or for this topic under an ANTH 398 or SOCI 398 number may not take this course for credit.

SOCI 322 *Popular Culture in the Middle East* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course examines areas of contestation between such social forces in the Middle East as the state, elders, women, and youth as they seek to control and define popular culture and everyday practices which have

become highly politicized. Contested domains to be considered include mass media, dance and music, art, rituals, sexuality, and clothing, and their implications for the people and societies involved.

NOTE: Students who have received credit for ANTH 322 or 323, or for this topic under an ANTH 398 or SOCI 398 number, may not take this course for credit.

SOCI 323 *Economy and Society* (3 credits)

Prerequisite: See N.B. number (1). This course examines the ways in which economic activities are legitimated or otherwise affected by social norms and values, and of the ways in which various social systems react to the strains created by the accommodation of new technology and of new industrial organizations.

SOCI 325 *Social Change* (3 credits)

Prerequisite: See N.B. number (1). This course examines the sources, mechanisms, and consequences of social and cultural change. Classical and contemporary theories of change are analyzed, as well as significant empirical studies.

SOCI 331 *Social Inequalities* (3 credits)

Prerequisite: See N.B. number (1). This course examines the dynamics of social stratification and differentiation, including economic distinctions and their consequences, social status, power, and mobility. Emphasis is placed upon Canadian society.

SOCI 333 *Political Sociology* (3 credits)

Prerequisite: See N.B. number (1). This course is concerned with the nature, organization, distribution, determinants, and consequences of power in social systems.

NOTE: Students who have received credit for SCPA 333 may not take this course for credit.

SOCI 336 *Collective Behaviour* (3 credits)

Prerequisite: See N.B. number (1). This course is concerned with the nature, emergence, and dynamics of short-term collective behaviour. Classical and contemporary interpretations of collective behaviour are examined. The course focuses on events such as riots and the emergence of violence in demonstrations related to current social problems and issues in Canada and the United States.

SOCI 338 *Sociology of Religion* (3 credits)

Prerequisite: See N.B. number (1). This course presents an overview of the role of religion in society as found in the pertinent literature of sociology and anthropology. Special consideration is given to the relationship between religion and other social institutions, with particular attention to changes in the religious structures and practices in modern pluralistic societies.

SOCI 341 *Sociology of the Media* (3 credits)

Prerequisite: See N.B. number (1). This course provides an introduction to sociological debates on the relevance and impact of mass media in our society. With a focus on North American media, this course takes a historical perspective to explore the rise of the mass media and the transformation of its relation with culture, especially popular culture. Particular attention is given to themes such as media and identity, national identity; media structures and ownership concentration; media texts and audiences.

SOCI 342 *Sociology of Occupations* (3 credits)

Prerequisite: See N.B. number (1). This course examines the role played by occupations and the world of work in industrialized societies. Economic, social, psychological, and moral attributes of occupations are examined in relation to changing markets for labour. Specific problem areas to be covered include changes in the structure of professions, the effects of changing technology and organizational design on occupational requirements, issues in work and household demands, issues in employment equity and problems of unemployment.

SOCI 346 *Industrialization* (3 credits)

Prerequisite: See N.B. number (1). This course examines processes of industrialization. Analyses are directed primarily towards the Canadian experience and include a consideration of theories regarding industrialization in Canada; an examination of the social and economic impact of large-scale enterprises; the changing role of governments; the ongoing interaction between social organization and advanced technology; and contemporary thought on the social consequences of economic crises.

SOCI 347 *Sociology of Labour-Management Relations* (3 credits)

Prerequisite: See N.B. number (1). This course involves the study of the shifting patterns in labour-management relations with a special focus on Canada. The course includes analyses of theories of management; the impact of the labour union movement, changes in the nature of the labour market; the significance of the growth of the service sector; the changing role of governments in labour-related issues; and contemporary thought on new forms of industrial organization.

SOCI 352 *Population and Environment* (3 credits)

Prerequisite: See N.B. numbers (1) and (3); SOCI 212. Population and environment have become two of the most contested areas for theory, research, policy and public action. The course critically examines the pillars of the population and the environment discourses with attention to differences between developed and developing countries. It provides an overview of the evolution of demands for population control to a common acceptance of a reproductive rights perspective. Similarly, the course focuses on current debates on environment and the management of the global commons from both the industrialized and developing countries' perspectives.

NOTE: Students who have received credit for ANTH 352 may not take this course for credit.

SOCI 353 *Community Studies* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course involves the study of communities both as locales and as symbolic constructions. The major theoretical approaches used in community studies are evaluated in relation to research and applied interests. Special attention is given to sensitizing students to issues concerning gender, race, ethnicity, and class at the community level.

NOTE: Students who have received credit for ANTH 353 or SCPA 353 may not take this course for credit.

**SOCI 355 *(also listed as ANTH 355)
Urban Regions*** (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course reviews the work of anthropologists and sociologists in cities. The focus is on the social organization of social life in First and Third World urban spaces. Consideration is also given to the particular dynamics of fieldwork in urban settings.

NOTE: Students who have received credit for ANTH 355 or SCPA 355 may not take this course for credit.

SOCI 358 *Social Demography* (3 credits)

Prerequisite: See N.B. number (1); SOCI 212. This course provides an introduction to the basic principles, issues, data, and methods of population studies. The emphasis in the course is on social factors that affect demographic processes (fertility, nuptiality, mortality, and migration), and the ways in which demographic change is related to social structure and social change.

SOCI 362 *Crime and Justice* (3 credits)

Prerequisite: See N.B. number (1). This course provides a critical analysis of the Canadian criminal justice system. The focus is on the process by which the accused is judged guilty or innocent, sentenced, punished or "corrected," and the treatment of the victim.

SOCI 363 *Law and Society* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course situates the study of law in cross-cultural perspective. It involves an examination of the kinds of institutions found in place of courts in non-Western societies. This course also explores numerous issues of relevance to the legitimacy of contemporary Western legal systems, such as the relationship between law and morality, the idea of right prior to good, and the nature of legal reasoning.

SOCI 366 *The History and Sociology of Genocide to 1945* (3 credits)

This course is crosslisted with HIST 359. Prerequisite: See N.B. numbers (1) and (3). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that have led to genocide up to 1945.

NOTE: Students who have received credit for HIST 359 may not take this course for credit.

SOCI 367 *The History and Sociology of Genocide from 1945 to the Present* (3 credits)

This course is crosslisted with HIST 360. Prerequisite: See N.B. numbers (1) and (3). Through the comparative and historical examination of a number of cases, this course investigates the meaning of genocide and the processes that led to genocide from 1945 to the present.

NOTE: Students who have received credit for HIST 360 may not take this course for credit.

SOCI 375 *Social Construction of Sexualities* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a cross-cultural, interdisciplinary approach to the study of human sexuality. There are three major components. One explores the validity of contemporary sexual beliefs and attitudes. Another focuses on the extent to which sexual beliefs and behaviours are socially organized. A third provides an introduction to theories which examine how biological and/or social forces shape our sexual lives.

SOCI 376 *Socialization* (3 credits)

Prerequisite: See N.B. number (1). This course examines the social and cultural processes by which the individual becomes a functioning member of society. Attention is given to adult socialization and re-socialization in diverse institutional contexts such as schools, occupations, hospitals, prisons, the military. The relationship of social structure to role acquisition and role performance is a major focus of the course.

SOCI 378 *The Family* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course examines the family as an institution in relation to its evolution from kinship societies up to the present. The course first introduces elementary structures of kinship and examines the family institution in the context of traditional societies. Special attention is devoted to the development of the modern family and to its current transformation.

NOTE: Students who have received credit for ANTH 378 may not take this course for credit.

SOCI 380 *Contemporary Issues in Human Rights* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). The course develops, through case analysis, insight into the differing priorities and competing concepts of human rights and human dignity in "non-Western" cultural traditions as well as in "Western" societies. It explores the significance of religious and other ideological positions in the use and abuse of human rights by governments, extra-governments, international bodies, as well as the general public. The course also examines topics such as women's human rights, sexuality and human rights, and human rights in development, the limits of sovereignty, and state accountability.

NOTE: Students who have received credit for ANTH 380 may not take this course for credit.

SOCI 381 *Ethnic Communities in Canada* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course aims at familiarizing students with the social factors and dynamics of contemporary ethno-cultural communities in Canada. Topics may include the immigration process and settlement; community development, structures, and organizations; the ethnic family; socio-economic status and achievement; cultural continuity and change; minority-majority relations and relations with other ethno-cultural communities.

SOCI 398 *Selected Topics in Sociology* (3 credits)**SOCI 399 *Selected Topics in Sociology*** (6 credits)

Prerequisite: See N.B. number (1). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

SOCI 402 *Contemporary Sociological Theory* (3 credits)

Prerequisite: See N.B. number (2); SOCI 300. This course examines contemporary sociological theory. It focuses on how sociologists synthesize concepts from different sociological schools and disciplines (interactionism, phenomenology, functionalism, conflict theory, critical theory, political and moral philosophy) into general theories that seek to explain how social action, structure, the self, symbolic order, communication, technology, and social division are produced and reproduced in modern and postmodern societies.
NOTE: Students who have received credit for SOCI 408 may not take this course for credit.

SOCI 403 *Contemporary Cultural Theory* (3 credits)

Prerequisite: See N.B. number (2); SOCI 300. This course examines a variety of approaches and area studies (poststructuralism, deconstruction, postcolonialist and cultural studies). It looks at how they shift contemporary sociological theory toward a focus on relations between discourse, knowledge, and power, and toward a critical reflection on cultural systems and institutions. The emphasis is on theories that seek to explain and understand the emergence of cultural politics in modern and postmodern societies.
NOTE: Students who have received credit for SOCI 408 may not take this course for credit.

SOCI 404 *Sociology of Literature* (3 credits)

Prerequisite: See N.B. number (2); or permission of the undergraduate advisor. This course presents a critical study of literature and para-literature as a cultural and social practice. Various approaches to the sociology of literature are examined. The emphasis is on the social genesis of literature. Selected texts of Canadian fiction and drama are analyzed.

SOCI 406 *Sociology of Knowledge* (3 credits)

Prerequisite: See N.B. number (2). This course examines a variety of theories of the relation of knowledge and belief to social contexts.

SOCI 409 *Honours Seminar* (6 credits)

Prerequisite: See N.B. number (2); SOCI 410 or SOCI 415 previously or concurrently; and permission of the honours advisor. This course involves the student formulating an honours research proposal, and the research and writing of an honours paper.

SOCI 410 *Research Design and Analysis* (6 credits)

Prerequisite: See N.B. number (2); SOCI 310. This course looks at quantitative methods of data collection and analysis. Topics include experimental and quasi-experimental design, principles of measurement, survey design, secondary data sources, techniques of multivariate analysis, and interpretation.

SOCI 415 *Field Research* (6 credits)

Prerequisite: See N.B. number (2); SOCI 310. This course provides the opportunity for advanced qualitative research methods. Students are taught systematic procedures for the collection of primary data using methods that include participant-observation and formal and informal interviewing, survey research, and library research.

NOTE: Students who have received credit for SOCI 313, 314, 315 or ANTH 315 may not take this course for credit.

SOCI 430 *Development Debates* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course considers the systematic reduction of poverty and powerlessness at individual and societal levels. Several development problems are examined, including national debt crisis, population growth, urbanization, and various degrees of state withdrawal from regulating the market. Special emphasis is given to case studies from major regions of the Third World on the varied impact of development on gender relations and on the eradication of social and economic inequalities.

NOTE: Students who have received credit for ANTH 430 may not take this course for credit.

SOCI 433 *Theories of Identity* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course discusses theories of difference, pluralism, exclusion, nationalism, and racism within broader frameworks such as citizenship, multiculturalism, diaspora or transnationalism. This course will therefore review related theories of identity as these are currently addressed within anthropology/sociology and related disciplines.

NOTE: Students who have received credit for ANTH 433 may not take this course for credit.

SOCI 437 *Social Movements* (3 credits)

Prerequisite: See N.B. number (2). The nature, emergence, and dynamics of organized collective behaviour and social movements are examined in light of classical and contemporary theories. The course focuses on the impact of leadership, organizational resources, and discontent with institutionalized social relations on social movements. Contemporary social movements in Quebec, the rest of Canada, and the U.S. serve as illustrations.

SOCI 441 *Material Culture* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). The focus of this course is the study of material objects and technologies and their role in the production of everyday social life and culture.

NOTE: Students who have received credit for ANTH 441 may not take this course for credit.

SOCI 445 *Sociology of Labour Movements* (3 credits)

Prerequisite: See N.B. number (2). This course analyzes the origins and development of labour movements as well as contemporary characteristics of union organizations within the context of their social, political, and economic environments. Emphasis is placed on Canada and Quebec.

SOCI 451 *Citizenship, Eros and the City* (3 credits)

Prerequisite: See N.B. number (2). This course invites students to explore the relation between classic and contemporary texts in the field of social and political thought. The three interrelated areas of study include Citizenship, Eros and the City. The course explores diverse theories of democracy, community, love, and civil society. The integrating theme for these three areas is public and private relationships in the city.

SOCI 460 *Sociology of Fear and Risk* (3 credits)

Prerequisite: See N.B. number (2). This course explores the social, cultural, and historical role of fear in the production of subjects and the control and management of individuals and populations. Topics include surveillance, moral regulation, moral panics, social phobias, terrorism, and the landscape of fear in popular culture. The course also examines the emerging theory of risk society and draws on developments in the sociology of emotions.

SOCI 474 *The Body Social* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course examines the social roles of the body. Topics include body image and self-esteem, the symbolism of beauty and ugliness, height, hair, dress, the face, body language, health and fitness, eating and drinking patterns. The subject is considered in anthropological and sociological perspectives.

NOTE: Students who have received credit for ANTH 474 may not take this course for credit.

SOCI 475 *Men and Masculinities* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course is a review of the various and changing roles of men, the meanings of masculinity across cultures and the emerging men's movements. In a dialogue with feminism, the course moves towards humanism.

NOTE: Students who have received credit for ANTH 475 may not take this course for credit.

SOCI 476 *Feminist Sociological Theories* (3 credits)

Prerequisite: See N.B. number (2). Analysis of recent debates and perspectives within feminist social theory, in particular the concepts of gender, equality, difference, identity, and power; feminist dialogues with, and critiques of, sociological theory.

SOCI 480 *Victorian Sociology* (3 credits)

Prerequisite: See N.B. number (2). This course provides the opportunity to study the lives and writings of women and men of the 19th century who contributed to the understanding of society and to the emergence of British and American sociology. The research and writings studied include those of Martineau, Tocqueville, Mill, Marx, Engels, Tristan, Maine, Spencer, Harrison, Mayhew, Booth, Gilman, Besant, Veblen, and Webb.

SOCI 498 *Advanced Topics in Sociology* (3 credits)**SOCI 499 *Advanced Topics in Sociology*** (6 credits)

Prerequisite: See N.B. number (2). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

Programs

ANTHROPOLOGY

60 BA Honours in Anthropology

3 ANTH 202^{3*}

3 SOCI 212^{3***}

6 200-level ANTH credits

3 200-level SOCI credits

3 ANTH 212³

6 ANTH 311³, 312³

6 ANTH 315⁶

12 300- or 400-level ANTH credits

6 ANTH 495⁶

12 400-level ANTH credits

60	BA Specialization in Anthropology
3	ANTH 202 ^{3*}
3	SOCI 212 ^{3***}
6	200-level ANTH credits
3	200-level SOCI credits
3	ANTH 212 ³
6	ANTH 311 ³ , 312 ³
6	ANTH 315 ⁶
30	300- or 400-level ANTH credits (maximum of 15 credits from the 300 level)
60	BA Joint Specialization in Anthropology and Sociology
3	ANTH 202 ^{3*}
3	SOCI 203 ^{3**}
6	SOCI 212 ^{3***} , 213 ³
6	ANTH 311 ³ , 312 ³
6	SOCI 300 ⁶
6	ANTH 315 ⁶
6	400-level ANTH credits
6	400-level SOCI credits
18	credits of ANTH and SOCI courses (12 credits chosen from crosslisted courses at any level; maximum of six credits at the 200 level chosen from either crosslisted or non-crosslisted courses)
42	BA Major in Anthropology
3	ANTH 202 ^{3*}
3	200-level ANTH credits
3	200-level ANTH or SOCI credits
3	200-level SOCI credits
6	ANTH 311 ³ , 312 ³ ,
6	ANTH 315 ⁶
12	300- or 400-level ANTH credits
6	400-level ANTH credits
30	Minor in Anthropology
3	ANTH 202 ^{3*}
3	200-level ANTH credits
3	200-level ANTH or SOCI credits
6	ANTH 311 ³ , 312 ³
12	300-level ANTH credits
3	400-level ANTH credits

*Students exempted from ANTH 202³ are required to take three credits from ANTH 200- and 300-level courses.
**Students exempted from SOCI 203³ are required to take three credits from SOCI 200- and 300-level courses.
***Students exempted from SOCI 212³ are required to take three credits from SOCI 200- and 300-level courses.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are open to students who have successfully completed ANTH 202 or equivalent, plus at least three credits of 200-level Anthropology courses.
- (2) 400-level courses are open to students who have successfully completed ANTH 311 and 312, plus at least six credits of 300-level Anthropology courses or permission of the Anthropology advisor.
- (3) Entry requirements for Sociology/Anthropology crosslisted courses depend on the discipline through which the course is entered. Once students have taken a crosslisted course under one disciplinary designation they may not take the course under the corresponding designation in the other discipline for credit.

ANTH 202 *Introduction to Culture* (3 credits)

An introduction to the anthropological study of culture. The course begins with a consideration of the concepts, models, and methods used by anthropologists. This is followed by an examination of the many ways in which peoples of the world, past and present, have organized the activities, institutions, and belief systems that sustain social life. The course concludes with a discussion of the relevance of cultural anthropology to contemporary issues.

NOTE: Students who have received credit for ANTZ 202 may not take this course for credit.

ANTH 203 *Culture and Biology: An Anthropological Perspective* (3 credits)

This course focuses on the interrelationship between culture and human biology. The first part of the course examines current debates about human origins, human variation, and the influence of cultural adaptation on human biology. This is followed by a critical examination of the strategies of sociobiology for the study of socio-cultural phenomena.

ANTH 204 *Native Peoples of North America* (3 credits)

Focusing primarily on the Native peoples of Canada, this course examines the ecological, economic, social, and religious aspects of Native cultures. A representative society from each geographic area of Canada is studied. This course is primarily ethnographic in emphasis, but it also seeks to provide some of the social and historical background necessary to understand the current situation of Native communities.

ANTH 212 *Elements of Ethno-Linguistics* (3 credits)

This is an introductory course which explores the relationship between language and culture, and the use of language in society. Major issues and debates in ethno-linguistics, socio-linguistics, and philosophy of language are examined.

ANTH 221 *Symbolic Anthropology* (3 credits)

This course examines alternative theoretical approaches to the study of the role of symbols in society. The course is devoted to a consideration of the contributions of structural, psychoanalytic, and interpretive anthropology.

ANTH 230 *Race and Ethnic Relations* (3 credits)

Prerequisite: See N.B. number (3). Race and ethnicity are examined as bases of social differentiation. Ethnic group relations are analyzed in relation to stratification and the exercise of power. The course includes explorations of the phenomena of discrimination, prejudice, and intergroup accommodation.

ANTH 231 *Culture and Commerce* (3 credits)

This course explores the influence of cultural values on the organization of the production, distribution or marketing, and the consumption of goods and services at both the local and global levels of the world economy. It also examines the social and environmental impact of the globalization of the consumer society.

ANTH 270 *Anthropology and Contemporary Issues* (3 credits)

This course examines contemporary world issues from a cross-cultural perspective. Discussion ranges from a critical examination of anthropological concepts and methods to a consideration of some of the practical or applied uses of anthropology. Specific topics include the consequences of underdevelopment, modernization, and the place of folk cultures and tradition in an increasingly global society.

ANTH 272 *Comparative Culture* (3 credits)

This course is a general introduction to social and cultural anthropology. It examines the ways in which anthropologists use the comparative method to understand cultures in their unity and diversity. The focus is upon reading ethnographies.

ANTH 276 *Gender and Society* (3 credits)

Prerequisite: See N.B. number (3). This course explores the social construction of gender categories both historically and in the present. The focus is upon examining the various theoretical perspectives which attempt to explain the ways in which society has organized "masculine" and "feminine" as the basis for social inequalities.

ANTH 285 *Introduction to Law and Society* (3 credits)

Prerequisite: See N.B. number (3). This interdisciplinary course examines the roles law plays in Canada and internationally, from the perspectives of history, political science, anthropology, sociology, and philosophy.

NOTE: Students who have received credit for HIST 285, POLI 285, or SOCI 285, or for this topic under an ANTH 298, HIST 298, POLI 298, or SOCI 298 number, may not take this course for credit.

ANTH 298 *Selected Topics in Anthropology* (3 credits)**ANTH 299 *Selected Topics in Anthropology*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

ANTH 302 *Art, Aesthetics, and Anthropology* (3 credits)

Prerequisite: See N.B. number (1). This course examines the relationship between art and society. It is mainly concerned with analyzing how art may function as a means of signifying and perpetuating a given social order. Examples of artistic practice are drawn from diverse North and South American, African, and Melanesian cultures.

ANTH 303 *Indigenous Resurgence* (3 credits)

Prerequisite: See N.B. number (1) and (3). Through a selection of case studies from the Americas, Australia, and New Zealand, this course focuses on contemporary indigenous political struggles, cultural resurgence, race and identity, language revival, urbanization, transnational organization, indigenous media, and debates concerning tradition.

NOTE: Students who have received credit for SOCI 303 may not take this course for credit.

ANTH 305 *Culture and History* (3 credits)

Prerequisite: See N.B. number (1). This course analyzes some of the ways "history" has been understood both in our own and other cultures, including history as legitimating charter, as repeating cycle, as a scientific inquiry, as a series of unique events, and as a basis for ethical judgments.

ANTH 307 *Understanding Myths* (3 credits)

Prerequisite: See N.B. number (1). This course presents a survey of current anthropological theories of the nature and function of myths. The course also analyzes competing interpretations of some classic Western myths, and concludes with an examination of mythmaking in contemporary Western culture.

ANTH 311 *European Anthropological Theories* (3 credits)

Prerequisite: See N.B. number (1). This course provides the student with a critical perspective on the historical development of theory in anthropology. Students are introduced to evolutionism, functionalism, structuralism, marxism, and post-modernism by rereading original texts and classical and contemporary ethnography. The role that fieldwork plays in "unmaking" theory in anthropology is explored. Emphasis is placed on the history and critique of British and European anthropological traditions.

ANTH 312 *North-American Anthropological Theories* (3 credits)

Prerequisite: See N.B. number (1). This course provides the student with a critical perspective on the historical development of theory in anthropology. Students are introduced to evolutionism, functionalism, structuralism, marxism, and post-modernism by rereading original texts and classical and contemporary ethnography. The role that fieldwork plays in "unmaking" theory in anthropology is explored. Emphasis is placed on the history and critique of American anthropological traditions.

ANTH 315 *Field Research* (6 credits)

Prerequisite: See N.B. number (1). This course provides the opportunity to study and practise qualitative research methods as they are used by anthropologists. Students learn systematic procedures for the collection of primary data using methods that include participant-observation and formal and informal interviewing.

NOTE: Students who have received credit for SOCI 315 may not take this course for credit.

ANTH 319 *Environment and Society* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a comprehensive introduction to the main environmental issues and dilemmas affecting contemporary societies around the world, as well as the necessary sociological and anthropological tools to understand and tackle these challenges.

NOTE: Students who have received credit for SOCI 319 or for this topic under an ANTH 398 or SOCI 398 number may not take this course for credit.

ANTH 322 *Popular Culture in the Middle East* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course examines areas of contestation between such social forces in the Middle East as the state, elders, women, and youth as they seek to control and define popular culture and everyday practices which have become highly politicized. Contested domains to be considered include mass media, dance and music, art, rituals, sexuality, and clothing, and their implications for the people and societies involved.

NOTE: Students who have received credit for ANTH 323 or SOCI 322, or for this topic under an ANTH 398 or SOCI 398 number, may not take this course for credit.

ANTH 324 *Peoples and Cultures of Oceania* (3 credits)

Prerequisite: See N.B. number (1). This course presents an overview of the peoples and cultures of Oceania, with particular emphasis on Melanesia. In addition to studying the peopling of the Pacific, the course delves into a range of classic anthropological topics, and addresses contemporary issues of gender, migration, and urbanization.

ANTH 325 *Magic, Science, Religion, and Ideology* (3 credits)

Prerequisite: See N.B. number (1). This course analyzes belief systems and their attendant rituals and practices. The focus is on how anthropologists differentiate between magic, science, religion, and ideology, and how anthropologists understand the relationship between belief systems and reality.

ANTH 326 *Peoples and Cultures of Sub-Saharan Africa* (3 credits)

Prerequisite: See N.B. number (1). The course gives a broad historical and geographical survey of the region, and discusses, through case studies, older and contemporary topics, debates, and issues of African anthropology.

ANTH 332 *Health, Illness and Healing in Cross-Cultural Perspective* (3 credits)

Prerequisite: See N.B. number (1). This course involves the exploration of a series of alternatives to Western ways of defining health and treating sickness, with particular emphasis on shamanistic and East Asian medicine. The major part of the course is devoted to the study of ethnomedicine, and exploring some of the central questions of transcultural psychiatry. The course concludes with a discussion of the role of the anthropologist in international health-planning.

ANTH 345 *Anthropology of Movement and Travel* (3 credits)

Prerequisite: See N.B. number (1). Using anthropological literature, this course examines the processes, policies, and issues that may be common to different categories of travel and movement as well as those that can distinguish between them.

NOTE: Students who have received credit for this topic under an ANTH 398 number may not take this course for credit.

ANTH 352 *Population and Environment* (3 credits)

Prerequisite: See N.B. numbers (1) and (3); SOCI 212. Population and environment have become two of the most contested areas for theory, research, policy and public action. The course critically examines the pillars of the population and the environment

discourses with attention to differences between developed and developing countries. It provides an overview of the evolution of demands for population control to a common acceptance of a reproductive rights perspective. Similarly, the course focuses on current debates on environment and the management of the global commons from both the industrialized and developing countries' perspectives.

NOTE: Students who have received credit for SOCI 352 may not take this course for credit.

ANTH 353 *Community Studies* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course involves the study of communities both as locales and as symbolic constructions. The major theoretical approaches used in community studies are evaluated in relation to research and applied interests. Special attention is given to sensitizing students to issues concerning gender, race, ethnicity, and class at the local level.

NOTE: Students who have received credit for SOCI 353 or SCPA 353 may not take this course for credit.

ANTH 355 (*also listed as SOCI 355*)

***Urban Regions* (3 credits)**

Prerequisite: See N.B. numbers (1) and (3). This course reviews the work of anthropologists and sociologists in cities. The focus is on the social organization of social life in First and Third World urban spaces. Consideration is also given to the particular dynamics of fieldwork in urban settings.

NOTE: Students who have received credit for SOCI 355 or SCPA 355 may not take this course for credit.

ANTH 361 *Kinship* (3 credits)

Prerequisite: See N.B. number (1). This course addresses both classical and contemporary issues in kinship studies, with particular emphasis on the following areas: filiation, adoption, descent, genealogies; rules of residency, private and public spheres; incest, sex, and marriage; terminologies and attitudes.

ANTH 363 *Law and Society* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course situates the study of law in cross-cultural perspective. It involves an examination of the kinds of institutions found in place of courts in non-Western societies. This course also explores numerous issues of relevance to the legitimacy of contemporary Western legal systems, such as the relationship between law and morality, the idea of right prior to good, and the nature of legal reasoning.

ANTH 375 *Social Construction of Sexualities* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course provides a cross-cultural, interdisciplinary approach to the study of human sexuality. There are three major components. One explores the validity of contemporary sexual beliefs and attitudes. Another focuses on the extent to which sexual beliefs and behaviours are socially organized. A third provides an introduction to theories which examine how biological and/or social forces shape our sexual lives.

ANTH 377 *Visual Anthropology* (3 credits)

Prerequisite: See N.B. number (1). In looking at the history of ethnographers' visual documentation of non-Western peoples as well as indigenous self-representations, this course primarily concerns itself with power and the development of professional anthropology, focusing on photography and film. It explores paradigms and case studies in the history of visual anthropology by highlighting the stylistic, social scientific, commercial, and political agendas that influence the production of visual documents. Starting with colonial exhibitions of "exotic natives," the course progresses to classic and contemporary ethnographic film with a focus on Curtis, Flaherty, Mead, Gardner, Rouch, and MacDougall.

NOTE: Students who have received credit for this topic under an ANTH 398 number may not take this course for credit.

ANTH 378 *The Family* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course examines the family as an institution in relation to its evolution from kinship societies up to the present. The course first introduces elementary structures of kinship and examines the family institution in the context of traditional societies. Special attention is devoted to the development of the modern family and to its current transformation.

NOTE: Students who have received credit for SOCI 378 may not take this course for credit.

ANTH 379 *Cross-Cultural Perspectives on Gender* (3 credits)

Prerequisite: See N.B. number (1). The course explores through different theoretical perspectives and ethnographic examples, cross-cultural differences in sex/gender systems. A comparative analysis of gender relations in band, tribal, and state societies is undertaken. Topics discussed include the sexual division of labour, the cultural and social construction of gender, and the impact of economic development.

NOTE: Students who have received credit for SOCI 379 may not take this course for credit.

ANTH 380 *Contemporary Issues in Human Rights* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). The course develops, through case analysis, insight into the differing priorities and competing concepts of human rights and human dignity in "non-Western" cultural traditions as well as in "Western" societies. It explores the significance of religious and other ideological positions in the use and abuse of human rights by governments, extra-governments, international bodies, as well as the general public. The course also examines topics such as women's human rights, sexuality and human rights, and human rights in development, the limits of sovereignty, and state accountability.

NOTE: Students who have received credit for ANTZ or SOCI 380 may not take this course for credit.

ANTH 381 *Ethnic Communities in Canada* (3 credits)

Prerequisite: See N.B. numbers (1) and (3). This course aims at familiarizing students with the social factors and dynamics of contemporary ethno-cultural communities in Canada. Topics may include the immigration process and settlement; community development, structures, and organizations; the ethnic family; socio-economic status and achievement; cultural continuity and change; minority-majority relations and relations with other ethno-cultural communities.

ANTH 385 *Globalization and Transnationality* (3 credits)

Prerequisite: See N.B. number (1). Globalization has been used generally to denote the increasingly rapid and far-flung circulation of people, money, commodities, and images around the world. This course introduces students to a sample of issues covered by anthropologists and sociologists in respect to this process, while at the same time also exploring transnational social networks that cross state borders but are not necessarily global in scope.

NOTE: Students who have received credit for SOCI 385 may not take this course for credit.

ANTH 398 *Selected Topics in Anthropology* (3 credits)**ANTH 399 *Selected Topics in Anthropology*** (6 credits)

Prerequisite: See N.B. number (1). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

ANTH 420 *Psychological Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course examines and critiques the theoretical concepts of Western academic and folk psychology from the perspective of the psychologies of other cultures. Topics considered include the cultural construction of the emotions, personality development, perception, culture-bound psychiatric syndromes (such as windigo psychosis, amok), and altered states of consciousness, and indigenous theories of dream interpretation.

ANTH 423 *Political Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course examines the political process and political organization in cross-cultural perspective. The focus is on how order is achieved in the absence of the state, as well as questions of leadership, power, and authority in different social contexts.

ANTH 424 *Experiments and Experience in Ethnographic Writing* (3 credits)

Prerequisite: See N.B. number (2). This course examines debates that stemmed from the postmodern critique of representation in anthropology in the mid-1980s. This critique has highlighted new politics for the writing of ethnographic texts, as well as raised a number of epistemological questions relating to the ontological status of truth. The course focuses on recent experiments in ethnographic writing and on dynamics of fieldwork experience.

NOTE: Students who have received credit for ANTH 422 may not take this course for credit.

ANTH 425 *Religions in the 21st Century* (3 credits)

Prerequisite: See N.B. number (2). This course examines the contemporary roles of religion as systems of meaning, a focus of social claims, and as elements of self-expression. This discussion is set within the historical trajectories of instances of globalization, such as colonization and the spread of world religions, conversions to Christianity and liberation theories, the politicization of Islam, or the emergence of New Age religions as new forms of identity.

ANTH 430 *Development Debates* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course considers the systematic reduction of poverty and powerlessness at individual and societal levels. Several development problems are examined, including national debt crisis, population growth, urbanization, and various degrees of state withdrawal from regulating the market. Special emphasis is given to case studies from major regions of the Third World on the varied impact of development on gender relations and on the eradication of social and economic inequalities.

NOTE: Students who have received credit for SOCI 430 may not take this course for credit.

ANTH 431 *Neo-Marxism and Cultures* (3 credits)

Prerequisite: See N.B. number (2). This course analyzes the relationships between economy and cultural systems. The first section is devoted to the concept of economic base and superstructure in the industrial world; the second section focuses on selected case studies of non-industrial cultures and industrial cultures. The course concludes with an appraisal of the quality of economic life in non-industrial cultures.

ANTH 433 *Theories of Identity* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course discusses theories of difference, pluralism, exclusion, nationalism, and racism within broader frameworks such as citizenship, multiculturalism, diaspora or transnationalism. This course will therefore review related theories of identity as these are currently addressed within anthropology/sociology and related disciplines.

NOTE: Students who have received credit for SOCI 433 may not take this course for credit.

ANTH 440 *Culture, Language, and Mind* (3 credits)

Prerequisite: See N.B. number (2); ANTH 212. This course looks at the relationship between linguistics and anthropology, and examines some of the issues in the linkage between language, culture, and thought.

ANTH 441 *Material Culture* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course studies material objects and technologies and their role in the production of everyday social life and culture.

NOTE: Students who have received credit for SOCI 441 may not take this course for credit.

ANTH 463 *Current Debates in Kinship* (3 credits)

Prerequisite: See N.B. number (2). From its inception, the anthropological investigation of kinship has been centred around organization and regulation of so-called biological facts such as procreation and genetic relatedness or "consanguinity." The course examines how international adoption, new reproductive technologies, and gay and lesbian kinship reshape the way people think about kinship.

ANTH 465 *Legal Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course analyzes the legal system as an institutionalized system of social control and meanings, using historical and comparative data. Special attention is given to the study of the interface of law and other areas of sociological inquiry, including social change, conflict, and decision-making.

ANTH 471 *Anthropology of Food* (3 credits)

Prerequisite: See N.B. number (2). This course approaches food through four main themes: archaeology of food production (domestication of plants and animals); class, cuisine, and the development of taste; cosmic and other symbolism of food; and the political economy of food and hunger.

ANTH 472 *Childhood and Youth* (3 credits)

Prerequisite: See N.B. number (2). This course examines the increasingly diverse field of anthropological research on children and youths. This field of interest has recently been expanded to consider a wide range of arenas in which children and youth may be implicated across the world, such as consumption, mobility, media, work, and conflict.

NOTE: Students who have received credit for SOCI 472 may not take this course for credit.

ANTH 474 *The Body Social* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course examines the social roles of the body. Topics include body image and self-esteem, the symbolism of beauty and ugliness, height, hair, dress, the face, body language, health and fitness, eating and drinking patterns. The subject is considered in anthropological and sociological perspectives.

NOTE: Students who have received credit for SOCI 474 may not take this course for credit.

ANTH 475 *Men and Masculinities* (3 credits)

Prerequisite: See N.B. numbers (2) and (3). This course is a review of the various and changing roles of men, the meanings of masculinity across cultures and the emerging men's movements. In a dialogue with feminism, the course moves towards humanism.

NOTE: Students who have received credit for SOCI 475 may not take this course for credit.

ANTH 477 *Elites, Privilege and Relative Advantage* (3 credits)

Prerequisite: See N.B. number (2). This course reviews the analytical and comparative challenges posed by the study of the elites such as scientists, entrepreneurs, and politicians. More modest forms of relative advantage and privilege are also addressed.

NOTE: Students who have received credit for this topic under an ANTH 498 number may not take this course for credit.

ANTH 479 *Feminism and Anthropology* (3 credits)

Prerequisite: See N.B. number (2). This course explores the dialogue between feminist theory and anthropology. Topics discussed include "feminist standpoint" theory and the critique of "objectivity" in feminist philosophy of science; feminist contributions to the historical development of anthropological theory; and the relationship between feminism and postmodernism in current debates on ethnography and fieldwork.

ANTH 495 *Honours Essay* (6 credits)

Prerequisite: See N.B. number (2); ANTH 315; and permission of the honours advisor. Under the supervision of an Anthropology staff member, the student prepares an honours essay on a subject chosen in consultation with and approved by the professor.

ANTH 498 *Advanced Topics in Anthropology* (3 credits)**ANTH 499 *Advanced Topics in Anthropology*** (6 credits)

Prerequisite: See N.B. number (2). Specific topics for these courses will be stated in the Undergraduate Class Schedule and the Departmental Handbook.

31.330

THEOLOGICAL STUDIES

Faculty

Chair

LUCIAN TURCESCU, PhD St.M.Coll.Tor., Professor

Associate Professors

PAUL ALLEN, PhD St.Paul/Ott.

MARIE-FRANCE DION, PhD Montr.

ANDRÉ GAGNÉ, PhD Montr./UCLouvain, Belgium

CHRISTINE JAMIESON, PhD St.Paul/Ott.

Assistant Professor

JEAN-MICHEL ROESSLI, PhD Frib./Sorbonne

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Annex D

514-848-2424, ext. 2475

Department Objectives

Theology builds a bridge between religious experience and human society. To expand understanding of the human person and of God, the Department seeks to make accessible to all its students an immense tradition of knowledge — especially through interpretation theory, historical analysis, psychological insight, and theoretical elaboration.

The Department is dedicated to training professional theologians and researchers while expanding the horizons of those who wish to appreciate their heritage.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

Students must have their programs approved by the Department.

Students will be admitted to the Certificate in Pastoral Ministry with the permission of the Department. Admission will be based on the number of available places and upon evaluation of the candidates' letter of intent and an interview dealing with their educational background and community experience.

All courses in the Department are open to any qualified student of Concordia.

60 BA Honours in Theological Studies

3 THEO 393³

18 THEO 201³, 202³, 203³, 204³, 205³, 206³

3 Chosen from THEO 301³, 302³, 303³, 304³ (*Old Testament*)

3 Chosen from THEO 311³, 315³, 317³ (*New Testament*)

3 Chosen from THEO 320³, 322³ (*History*)

3 Chosen from THEO 212³, 331³, 333³, 337³ (*Systematics*)

3 Chosen from THEO 351³, 353³ (*Ethics*)

3 Chosen from THEO 236³, 242³, 245³, 291³, 347³ (*Spirituality*)

12 THEO 406³, 408³, 410³, 460³

3 Chosen from cognate courses in Classics, History, Philosophy, Psychology, Religion, Sociology, in consultation with the honours advisor. Students, in consultation with the honours advisor, may choose a course in another cognate discipline.

6 Chosen from courses in the ancient and/or modern languages of Classical Greek, Biblical Greek (THEO 495, 496), Biblical Hebrew (THEO 492, 493), Modern Hebrew, Latin, French, German, Italian, Spanish, in consultation with the honours advisor

NOTE: With the permission of the Department, three credits in a cognate discipline may be substituted for a THEO elective.

- 42 BA Major in Theological Studies**
- 15 THEO 201³, 202³, 203³, 204³, 205³
- 3 Chosen from THEO 301³, 302³, 303³, 304³ (*Old Testament*)
- 3 Chosen from THEO 311³, 315³, 317³ (*New Testament*)
- 3 Chosen from THEO 206³, 320³, 322³ (*History*)
- 3 Chosen from THEO 212³, 331³, 333³, 337³ (*Systematics*)
- 3 Chosen from THEO 351³, 353³ (*Ethics*)
- 3 Chosen from THEO 236³, 242³, 245³, 291³, 347³ (*Spirituality*)
- 9 Chosen from any of the Theology offerings

NOTE: With the permission of the Department, three credits in a cognate discipline may be substituted for a THEO elective.

24 Minor in Theological Studies

- 12 THEO 201³, 202³, 203³, 204³
- 12 Chosen from other Theology offerings

30 Certificate in Pastoral Ministry

- 15 THEO 203³, 402³, 404³; AHSC 230³, 232³
- 3 Chosen from THEO 315³, 317³
- 3 Chosen from THEO 206³, 320³, 322³
- 3 Chosen from THEO 204³, 351³, 353³
- 3 Chosen from THEO 233³, 331³, 333³, 337³
- 3 Chosen from THEO 205³, 236³, 242³, 245³, 291³, 347³

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

THEO 201 Introduction to Theological Studies (3 credits)

This course introduces students to the history, sources, and basic structure of Christian theology. A survey of certain interrelationships between theology and other disciplines is provided as well as an introduction to contemporary approaches to God and topics such as Jesus Christ, sin, and redemption.

THEO 202 Introduction to Biblical Studies (3 credits)

This course provides a survey of the contents of the Bible, from Genesis to Revelation, and a practical introduction to the skills required to understand biblical texts. Attention is paid to diverse approaches to interpretation which are used in historical, literary, or theological study of the Bible.

NOTE: Students who have received credit for THEZ 202 may not take this course for credit.

THEO 203 Introduction to New Testament (3 credits)

This course deals with the writings of the New Testament with an emphasis on both content and form. As well, students are introduced to the socio-political, economic, and cultural backdrops within which earliest Christianity arose and began to spread.

THEO 204 Introduction to Christian Ethics (3 credits)

This course is an introduction to the field of ethics in the context of Christian faith. Christian ethics is presented as an active quest towards understanding and guiding Christian moral living. There is a brief presentation of the historical background to Christian ethics, an exploration of the points of convergence with other religious traditions, as well as the interrelationship between morality and freedom. The course will include a reflection on the problem of evil as a diminishment of persons and societies as well as a section on moral development and moral maturity.

NOTE: Students who have received credit for THEZ 204 may not take this course for credit.

THEO 205 Introduction to Christian Spirituality (3 credits)

The characteristics of Christian spirituality, its roots in scripture, the balance between contemplation and action, its communal dimension, its attitude to the world, are analyzed through the study of a selection of men and women whose lives exemplify various aspects of Christian spirituality over the past two thousand years. The course examines notions of transcendence and immanence, individuality and collectivity, nature and the divine.

NOTE: Students who have received credit for THEO 234 may not take this course for credit.

THEO 206 Introduction to Christian Origins (3 credits)

This course is a study of the historical origins of the Church with a view to understanding the creative originality of the Christian tradition. It explores possibilities for the rethinking of contemporary Christianity in light of the common sources of diverse Christian traditions.

THEO 212 Faith, Reason and the Religious Sense (3 credits)

This course investigates the basic human search for meaning and value in the context of the variety of models of revelation. It considers how religious experience is understood in the light of the psychology of religion and faith.

THEO 226 *Theology and Myth* (3 credits)

This course is a comparative study of mythology. The focus is on the role of myths in Christian theology, e.g. creation myths, origins of humanity, salvation myths, and others.

THEO 228 *Celtic Christianity* (3 credits)

This course follows a historical line to show the connections of the pre-Christian Celtic beliefs with the early Christian Church of Celtic countries. It focuses on the spirituality of the Celtic people in the context of Celtic history and culture.

NOTE: Students who have received credit for THEO 208 or 327, or for this topic under a THEO 298 or IRST 298 number, may not take this course for credit.

THEO 233 *Religious Pluralism in a Secular Culture* (3 credits)

This course focuses on the relationships between religion, pluralism, and secular culture. It deals specifically with secularization, secularism and theological responses that are rooted in historical discourses of church/state relations.

NOTE: Students who have received credit for THEZ 233 may not take this course for credit.

THEO 236 *Spirituality: Personal, Social and Religious Dimensions* (3 credits)

This course focuses on the phenomenon of spirituality as a personal and social response to the human quest for self-integration and self-transcendence. It examines the roles of both religious tradition and secular culture in shaping approaches to the spiritual journey. Consideration of the characteristics of Christian spiritual traditions is complemented by reflection upon the meaning and variety of spiritualities present in the pluralistic postmodern culture.

THEO 238 *Theology in Film* (3 credits)

This course examines a series of films to uncover their theological preoccupations, motives, and questions. Methods of analyses are discussed, in conjunction with screenings of selected films.

THEO 242 *Theology and the Arts* (3 credits)

This course explores a wide variety of ancient, modern, and contemporary artistic media — painting, sculpture, architecture, glass, music, literature, and multimedia — in order to uncover a theological understanding of artistic activity. It investigates the ways in which artists explore apprehensions of transcendence and the artistic imagination.

THEO 245 *The Creative Self* (3 credits)

This course helps students explore their own creative processes in order to come to a deeper appreciation of the infinite human capacity for creation, and thus, self-transcendence. It considers the cognitive dimensions of the creative processes, their ethical aspects, their expression in human action, and their impact on ultimate value and meaning.

NOTE: Students who have received credit for this topic under a THEO 298 number may not take this course for credit.

THEO 291 *The Icon: Theology in Colour* (3 credits)

The icon is both a theological medium and a theological message. The first is expressed by design, the latter by colour. The study of the icon offers the student an opportunity to explore theological meaning through image and symbolism as well as concept and reasoning.

NOTE: Students who have received credit for THEO 276 may not take this course for credit.

THEO 295 *Theology and Women* (3 credits)

This course explores the emergence of a body of scholarly writing by women theologians. It looks at their questions and the critiques of traditional theological doctrines and interpretations, as well as suggesting different hermeneutical approaches to exegesis, theology, and history.

NOTE: Students who have received credit for THEO 271 may not take this course for credit.

THEO 298 *Selected Topics in Theological Studies* (3 credits)**THEO 299 *Selected Topics in Theological Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

THEO 301 *The Pentateuch* (3 credits)

The objective of this course is to familiarize students with the first five books of the Bible, known as the Pentateuch. The course considers literary criticism pertaining to the composition of the Pentateuch, its themes, and their theological meanings.

THEO 302 *Historiographies in the Hebrew Bible* (3 credits)

Beginning with an introduction to biblical historiographies, this course discusses the Deuteronomistic historiography (Joshua, Judges, Books of Samuel, Books of Kings) and compares it to the historiography of Ezra/Nehemiah and Chronicles. Literary and theological issues are discussed throughout the course.

THEO 303 *Themes in the Hebrew Bible* (3 credits)

This course studies in depth the roots and developments of particular biblical traditions. It focuses on the history of different interpretations of such specific biblical themes as divine election, covenants, promises, worship, and sacrifices.

THEO 304 *Prophetic and Wisdom Literature in the Hebrew Bible* (3 credits)

This course introduces the prophetic, wisdom, and deuterocanonical books of the Hebrew Bible. Topics discussed are literary genres, historical contexts, and theological themes, as well as the phenomenon of prophecy in the ancient Near East, the historical settings for the biblical prophetic and wisdom literature, the language, and the message of these biblical books.

THEO 311 *Johannine Literature* (3 credits)

This course offers an in-depth study of the Gospel of John and the three letters of John. The differences between the Johannine school of thought and the Synoptic tradition (Matthew, Mark, and Luke) with respect to christology, faith, salvation, and the role of the spirit are examined.

THEO 315 *Gospels and Acts* (3 credits)

This course is an introduction to the texts and teachings of the four canonical Gospels and to the Acts of the Apostles.

THEO 317 *The Pauline Letters* (3 credits)

This course is an introduction to Paul and his letters. In studying these writings, students engage in close examination of parts of the text (exegesis) and also discover the history and context of earliest Christianity.

THEO 319 *Gnosticism and the New Testament* (3 credits)

This course introduces various Gnostic texts which are then compared and contrasted with the canonical Gospels of the New Testament. Themes such as salvific knowledge, cosmogony and creation, anthropogony, Christology, and soteriology are also considered from a comparative perspective.

NOTE: Students who have received credit for this topic under a THEO 298 number may not take this course for credit.

THEO 320 *History of Christianity: The Medieval Period* (3 credits)

This course explores the history of Christianity from the fall of the Western Roman Empire in the fifth century to the beginning of the Renaissance in the 15th century. The diverging experiences of the churches in East and West are studied, with attention to the development of Christian beliefs, art, philosophy, and institutions, and the major religious and political figures who influenced these developments.

THEO 322 *History of Christianity: Reformation and Modernity* (3 credits)

This course explores the history of Christianity from the reformation through to the closing decades of the 20th century, with special attention given to the Protestant Reformation and to the impact of the Enlightenment on the theology, institutions, ethics, and intellectual life of modern Christians.

THEO 324 *Roman Catholicism* (3 credits)

This course offers an introduction to the contemporary Roman Catholic experience, and includes a treatment of the historical origins of Catholicism, its worship and liturgy, its spirituality, and its role in society and culture.

NOTE: Students who have received credit for THEO 211 may not take this course for credit.

THEO 331 *The Christian Understanding of God* (3 credits)

This course examines the classical presentation of Christian belief in God as a Trinity of divine persons through its biblical origins and historical development. It also examines modern theological reflection on this classical view, including perspectives from non-Western cultural contexts.

THEO 333 *Jesus Christ in History and Faith* (3 credits)

This course studies the biblical and later traditions about the person, nature, and work of Christ in the Christian tradition. Texts studied include the Bible, theological texts from a variety of historical periods as well as some literary and artistic presentations of Christ.

THEO 337 *The Christian Sacraments* (3 credits)

This course examines the history, symbols, and images of ritual and liturgical communication in Christianity, especially in baptism and eucharist. These "mysteries," as the Christian sacraments were originally called, are studied in the context of a Christian life.

THEO 343 *Religion and Politics* (3 credits)

Focusing on the relationship between church, state, and democracy, this course examines the intersection of religion and politics by studying the connections between moral values and political beliefs in different settings around the world. It explores how religious beliefs have shaped politics and have impacted democratization, education, and citizenship. At the same time, it reflects on the way in which politics has affected religious life and religious organizations.

THEO 347 *Spirituality of Aging* (3 credits)

This course deals with the spirituality of aging through a number of important themes: mid-life crises, intergenerational conflicts, sexuality, theology of the body, relationships, death and dying.

NOTE: Students who have received credit for this topic under a THEO 298 or THEZ 298 number may not take this course for credit.

THEO 351 *Applied Ethical Issues* (3 credits)

This course provides students with a method for ethical deliberation and explores ethical issues challenging contemporary society such as euthanasia, health care, the economy, and scientific and technological advances.

THEO 353 *Theology and Bioethics* (3 credits)

This course presents major frameworks for examining issues in bioethics and explores case studies to familiarize students with ethical issues in the biomedical context. Ethical issues in health care and research involving human subjects in light of a theological perspective on life, death and moral existence are explored.

THEO 393 *Philosophical Foundations of Christian Theology* (3 credits)

Prerequisite: 24 credits. This survey course investigates the philosophical outlook and language of theological doctrines and Christian thinkers in various historical periods. Questions of truth, meaning, and goodness are examined in light of Christian interpretations of Plato and Aristotle. Contemporary topics at the intersection of philosophy and theology, such as human sexuality, political philosophy, and scientific theories, are also treated.

NOTE: Students who have received credit for THEO 293 may not take this course for credit.

THEO 398 *Selected Topics in Theological Studies* (3 credits)**THEO 399 *Selected Topics in Theological Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

NOTE: All 400-level Theology courses have as their prerequisite an appropriate 300-level Theology course, or its equivalent, with permission of the Department.

THEO 402 *Pastoral Ministry* (3 credits)

This course introduces students to the history and theology of pastoral ministry. Particular attention is given to theological sources and spiritual resources available to the minister in a variety of pastoral settings.

THEO 404 *Practicum in Pastoral Ministry* (3 credits)

Prerequisite: THEO 402 and permission of the Department. This course complements THEO 402 as the internship and field exploration of a particular pastoral ministry. It will be supervised by experts or experienced individuals in the various fields of ministry, e.g. eldercare, bereavement, hospital, school, youth ministries, and others.

THEO 406 *Scriptural Exegesis* (3 credits)

Prerequisite: THEO 202 or 203; THEO 301. This course initiates students in the historical-critical methodology used in the study of the Bible and familiarizes them with biblical research tools.

NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 408 *Classical Theological Texts: Reading and Interpretation* (3 credits)

Prerequisite: THEO 201; THEO 331 or 333 or 337, or permission of the Department. This course provides students with the interpretive skills that permit critical responses to texts. Classical texts are analyzed in terms of the elements of context, structure, form, and content. The course covers classical theological writings from the fourth to the 20th century.

NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 410 *Honours Tutorial* (3 credits)

Prerequisite: Permission of the Department; enrolment in the honours program. This course provides students with background studies in central theological issues and writers. Students prepare an annotated bibliography as part of the requirements of the course.

THEO 460 *Honours Essay* (3 credits)

Prerequisite: THEO 410 previously or concurrently; permission of the Department; enrolment in the honours program. Each student works with an individual faculty member in a particular area of theological studies to produce a research paper of about 40 pages in length.

THEO 492 *Biblical Hebrew I* (3 credits)

No prior knowledge of the Hebrew language is necessary. With a view to reading and comprehending simple biblical narratives in Hebrew, students learn the rudiments of Biblical Hebrew from the alphabet, vocabulary, and the basic grammar.

NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 493 *Biblical Hebrew II* (3 credits)

Prerequisite: THEO 492. This course continues the objectives of Biblical Hebrew I. With a view to reading and comprehending simple biblical narratives in Hebrew, students learn problematic verb forms, grammatical constructions, and text linguistics. By the end of this course students are able to read, analyze, and translate biblical narratives.

NOTE: Students who have received credit for this topic under a THEO 498 number may not take this course for credit.

THEO 495 *Biblical Greek I* (3 credits)

This is an introductory course to Greek Koine. No prior knowledge of the Greek language is necessary. It provides the student with a basic understanding of New Testament Greek.

THEO 496 *Biblical Greek II* (3 credits)

Prerequisite: THEO 495. This course builds on the material presented in Biblical Greek I. By the end of the course, students will be able to analyze and translate biblical texts.

THEO 497 *Selected Topics in Theological Studies* (3 credits)

THEO 498 *Selected Topics in Theological Studies* (3 credits)

THEO 499 *Advanced Topics in Theological Studies* (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.400

COMPUTER SCIENCE

The Department of Computer Science and Software Engineering offers a Minor in Computer Science available to students in the Faculty of Arts and Science. For further details on this program, see §71.70.5.

31.500

COLLEGES, INSTITUTES AND SCHOOLS

Students benefit from the rich variety of academic resources provided by Concordia University. In addition, the Faculty of Arts and Science has established several programs distinguished by the fact that they are housed in small units which integrate various aspects of undergraduate student life at Concordia. These programs admit a certain number of applicants each year, and offer their students the opportunity to study with a group of students and faculty members sharing the same interests. Students can draw on the intimacy of dedicated classrooms, faculty offices, and student lounges as they study and relax with each other and with their professors, while taking full advantage of the facilities of the University at large.

There are three colleges, one institute, and two schools that offer these benefits: the Liberal Arts College, the Science College, the Loyola College for Diversity and Sustainability, the Simone de Beauvoir Institute, the School of Canadian Irish Studies, and the School of Community and Public Affairs. The Liberal Arts College offers a Major and Honours in Western Society and Culture; the Science College provides a Minor in Multidisciplinary Studies in Science; and the Loyola College for Diversity and Sustainability offers both a Minor in Diversity and the Contemporary World and a Minor in Sustainability Studies. The Simone de Beauvoir Institute houses a Specialization, Major, Minor, and Certificate in Women's Studies. The School of Canadian Irish Studies offers a Minor and Certificate in Canadian Irish Studies, while the School of Community and Public Affairs sponsors a Major in Community, Public Affairs and Policy Studies. Any of these programs may be supplemented by a major or a minor in another department or discipline. For further information about the academic requirements for any of these programs, please consult the appropriate section of the Undergraduate Calendar.

Whether as a major concentration or a minor, these programs extend to students a stimulating opportunity to share in the academic life of the college, institute, or school through special courses, seminars, guest lectures, tutorials, and social and cultural activities, all planned to build on the shared interests of the community. These programs are intended to blend high academic standards, rigorous programs of study, and close collegial relationships to provide an intimate and stimulating atmosphere within the University.

31.515

CO-OPERATIVE EDUCATION

Through the Institute for Co-operative Education, the University offers programs in the co-operative format in the departments of Chemistry and Biochemistry, Economics, Études françaises, Mathematics and Statistics, and Physics in the Faculty of Arts and Science; in the departments of Building, Civil and Environmental Engineering, Computer Science and Software Engineering, Electrical and Computer Engineering, and Mechanical and Industrial Engineering in the Faculty of Engineering and Computer Science; and in the departments of Accountancy, Decision Sciences and Management Information Systems and Marketing in the John Molson School of Business.

Co-operative programs in the Faculty of Arts and Science are open to students who are enrolled in many of the honours and specialization programs offered by the above departments.

As it becomes feasible the University may consider offering other disciplines in the co-op format.
(Please see §24 of this Calendar.)

31.520

LIBERAL ARTS COLLEGE

Principal and Permanent Fellow

ERIC BUZZETTI, PhD Boston Coll., Associate Professor

Permanent Fellows

JARRETT CARTY, PhD Notre Dame, Associate Professor

IVANA DJORDJEVIC, PhD McG., Associate Professor

GEOFFREY C. FIDLER, PhD McG., Associate Professor and Vice-Principal

ARIELA FREEDMAN, PhD N.Y., Associate Professor

TOBIAS FOSTER GITTES, PhD Col., Associate Professor

FREDERICK H. KRANTZ, PhD C'nell., Professor

MARK RUSSELL, PhD Camb., Associate Professor

KATHARINE STREIP, PhD Calif.(Berkeley), Associate Professor

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Annex RR, Room: 103

514-848-2424, ext. 2565

Objectives

The Liberal Arts College, a small community of fellows and students, provides a unique liberal arts emphasis within the Faculty of Arts and Science. Built on a core of eight courses, the multidisciplinary curriculum is designed to guide students in exploring the foundations and development of Western civilization and culture. The aim is to foster the major values of the Western tradition — those of critical thinking and respect for intellectual freedom.

The major goal of Liberal Arts College is to assist the student in the process of becoming an educated person. The College seeks to translate into modern idioms the traditional vision of education as a preparation for life. Its core courses and seminars, sharing a common concern with the changing nature of society and culture, aim at the development of an informed critical consciousness. Emphasis is also placed on sharpening the basic expressive and analytic tools indispensable to social and cultural understanding. All College students are expected to present, or to acquire, a knowledge of a second language (normally, French), necessary for their research and to write and to express themselves clearly. Training in research techniques is stressed, and original, independent work encouraged.

Liberal Arts College, linking demanding general education to significant specialization, is committed to serious intellectual work. Through its curriculum, staff, standards, and academic environment, it hopes to communicate the excitement and creativity of such engagement to its students.

Liberal Arts College Admission and Program Requirements

Students admitted to the University and seeking to enter the College must have a "B" average from Cegep, or its equivalent. All students upon admission must demonstrate proficiency in English composition and a second language, or undertake necessary make-up work.* All applicants should apply through the Office of the Registrar; they should also call or write the College for an interview. Mature students are admitted to the College on the basis of an interview and an examination of their record. Full-time degree candidates will normally complete their College core curriculum within three academic years; part-time degree candidates should complete their College core curriculum within six academic years. Students who have been admitted to departmental honours programs must maintain a "B+" average in their College core curriculum; all others must maintain a "C" average in their College core curriculum. All honours students in the College are expected to undertake significant original work, on a staff-guided basis, in their final year.

*Les étudiantes et étudiants francophones devront donner la preuve de leur connaissance de la langue anglaise.

Students seeking admission to the honours program may apply either for direct entry on the University application form or, once in the program, to the College's honours advisor normally following the completion of 30 credits.

Staff

Faculty fellows chosen from the University's departments form the staff of all College courses, seminars, and tutorials. Teaching fellows are resident in the College, as is its Principal, who also teaches in the core curriculum.

Facilities

Liberal Arts College is located on Concordia University's downtown Sir George Williams Campus. Its seminar and tutorial teaching is done in the same building that houses the College's Principal and core fellows. The College has student study areas, a course-materials library, and audiovisual facilities, as well as common room and a collection of important newspapers, journals, and periodicals. The College, the focus of an extracurricular program of visiting speakers and cultural events, is a place where the exchange of ideas and views generated in courses and seminars continues on a more informal basis.

Counselling

Close student-faculty contact and exchange is part of the Liberal Arts College's stress on serious intellectual work. Each student is assigned to a faculty fellow who acts as a personal advisor, and who follows the student's progress through the College, advising on the choice of disciplinary or area specialization. All students' work is evaluated annually by the Principal and fellows.

College Council

Council, composed of fellows and students, is the formal decision-making body of Liberal Arts College. It meets regularly, chaired by the Principal, as a forum in which current issues and future policy are discussed and decisions taken. Council is that body which ensures the democratic participation of all members of the College in its ongoing academic and extracurricular work.

Programs

All Liberal Arts College students must take the core curriculum. These interrelated courses constitute a significant segment of the coursework required for College-sponsored BA programs. Liberal Arts College stresses honours-level work, although a student may, with the permission of the College, combine the core curriculum with a departmental specialization or major program, or with the Individual Studies programs.

42 Liberal Arts College — Core Curriculum

Stage I

18 LBCL 291⁶, 292⁶, 295⁶

Stage II

18 LBCL 390³ or 392³, 391⁶, 393⁶, 394³ or 395³

Stage III

6 LBCL 490⁶

In addition to completing the core curriculum, students must meet the Faculty of Arts and Science degree requirements and complete a departmental major, specialization, or honours program, or the Individual Studies program, or the Major in L.A.C. Western Society and Culture.

The core curriculum may also be applied towards specialization or honours work in the Individual Studies program. (See §31.170 of this Calendar).

All College students must consult with a College advisor before selecting courses in other disciplines or fields. Generally, courses in the Liberal Arts College are open only to members of the College.

Honours candidates must maintain a GPA of 3.30 (B+) in their College courses, with no grade lower than a "C." Students in a major or specialization program must maintain a "C" average in their College courses, with no grade lower than a "D."

60 BA Honours in Western Society and Culture

Stage I

18 LBCL 291⁶, 292⁶, 295⁶

Stage II

18 LBCL 390³ or 392³, 391⁶, 393⁶, 394³ or 395³

Stage III

12 LBCL 490⁶, 496⁶

6 Chosen from LBCL 494³, 495³, 498³

6 Chosen in consultation with the honours advisor

42 BA Major in Western Society and Culture

Stage I

18 LBCL 291⁶, 292⁶, 295⁶

Stage II

18 LBCL 390³ or 392³, 391⁶, 393⁶, 394³ or 395³

Stage III

6 LBCL 490⁶

30 Minor in Western Society and Culture

Stage I

18 LBCL 291⁶, 292⁶, 295⁶

Stage II

12 LBCL 391⁶, 393⁶

The College advises students who are enrolled in the BA Major in Western Society and Culture to take, in addition, some form of concentrated study (e.g. major, minor) within a single department or field of study.

Further information on core courses and College programs generally may be obtained either by writing for the Liberal Arts College Informational Brochure or by calling the Liberal Arts College. Personal interviews with a fellow of Liberal Arts College may be arranged through the secretary.

Admission into a departmental honours program requires the approval of the Department.
Admission into the College's honours program requires the approval of the College.

Students seeking admission to a departmental or College honours program will be bound by the honours requirements outlined in §16.2.3 of this Calendar.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

LBCL 201 Great Books: Western History and Thought from Antiquity through the Renaissance (3 credits)

Social and political theory are central, and art, music, and scientific thought are represented. Key texts may include the *Bible*, Plato's *Republic*, Thucydides' *Peloponnesian Wars*, St. Augustine's *City of God*, and Machiavelli's *Prince and Discourses*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 201 may not take this course for credit.

LBCL 202 Great Books: Western Culture and Expression from Antiquity through the Renaissance (3 credits)

Literature, religion, and philosophy are central, and art and music are represented. Key texts may include Homer's *Odyssey*, Virgil's *Aeneid*, Montaigne's *Essays*, and Shakespeare's *King Lear*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 202 may not take this course for credit.

LBCL 203 Great Books: Western History and Thought from the Reformation through Modernity (3 credits)

Social and political theory are central, and art, music, and scientific thought are represented. Key texts may include Calvin's *Institutes*, Descartes' *Discourses on Method*, Hobbes' *Leviathan*, and Mill's *Essay on Liberty*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 203 may not take this course for credit.

LBCL 204 Great Books: Western Culture and Expression from the Reformation through Modernity (3 credits)

Literature, religion, and philosophy are central, and art and music are represented. Key texts may include Milton's *Paradise Lost*, Rousseau's *Confessions*, Stendhal's *The Red and the Black*, and Nietzsche's *Genealogy of Morals*.

NOTE: Students who have received credit for LBCL 291, 292, or LBCZ 204 may not take this course for credit.

LBCL 291 Structure and Dynamics of Western Civilization I (6 credits)

Prerequisite: Registration in the Liberal Arts College, or permission of the College. This course emphasizes the intellectual, cultural, and political traditions from the Biblical period and classical antiquity to the mid-17th century. Texts studied are related to changing social and historical contexts. Primary sources may include *Genesis*, Plato, *Republic*, Marcus Aurelius, *Meditations*, Thomas Aquinas, *Summa Theologica*, Machiavelli, *Prince and Discourses*, and Hobbes, *Leviathan*.

LBCL 292 Modes of Expression and Interpretation I (6 credits)

Prerequisite: Registration in the Liberal Arts College, or permission of the College. A study of major Western literary, religious, and philosophical traditions, involving the reading and interpretation of significant texts from antiquity to the mid-17th century. Emphasis is placed on development of writing skills and interpretative analysis. Primary texts may include Homer, *Odyssey*, Plato, *Symposium*, Augustine, *Confessions*, Dante, *The Divine Comedy*, and Cervantes, *Don Quixote*.

LBCL 295 History of Art (6 credits)

Prerequisite: Registration in the College, or permission of the College. This course is an integrated study of the nature of the visual arts from antiquity to the 20th century. Artistic expression is examined through chronological and thematic approaches, with attention to the relation between art and society.

LBCL 298 Liberal Arts College Selected Topics (3 credits)

LBCL 299 Liberal Arts College Selected Topics (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LBCL 390 History of Music: Ancient to Classical (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course introduces developments in the history of European music from antiquity to the 18th century. Course content includes musical structure, period styles, and selected works by major composers, setting these within their historical contexts.

NOTE: Students who have received credit for LBCL 396 may not take this course for credit.

LBCL 391 *Structure and Dynamics of Western Civilization II* (6 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course emphasizes the intellectual, cultural, and political traditions from the mid-17th century to 1914. Texts studied are related to changing social and historical contexts. Primary texts may include Spinoza, *Theological Political Treatise*, Locke, *Second Treatise of Government*, Rousseau, *The Social Contract*, Wollstonecraft, *A Vindication of the Rights of Woman*, Marx, *Capital*, and Nietzsche, *Genealogy of Morals*.

LBCL 392 *History of Music: Classical to Contemporary* (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course introduces developments in the history of European music from the 18th century to the present day. Course content includes musical structure, period styles, and selected works by major composers, setting these within their historical contexts.

NOTE: Students who have received credit for LBCL 396 may not take this course for credit.

LBCL 393 *Modes of Expression and Interpretation II* (6 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. A study of major Western literary, religious and philosophical traditions from the mid-17th century to 1914. Primary texts may include Stendhal, *The Red and the Black*, Diderot, *Le neveu de Rameau*, Goethe, *Faust*, Nietzsche, *Thus Spoke Zarathustra*, and Baudelaire, *Les fleurs du mal*.

LBCL 394 *The History of Science: Antiquity to the Renaissance* (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course explores the history of science from antiquity to the Renaissance. Primary sources may include Aristotle, *Physics*, Plato, *Timaeus*, and Copernicus, *On the Revolution of the Heavenly Spheres*.

NOTE: Students who have received credit for LBCL 397 may not take this course for credit.

LBCL 395 *The History of Science: Early Modern to Contemporary* (3 credits)

Prerequisite: LBCL 291; LBCL 292; LBCL 295; or permission of the College. This course emphasizes the nature of modern science from the scientific revolution to the present day. Primary sources may include Darwin, *Origin of the Species*, Galileo, *Dialogue Concerning the Two Chief World Systems*, Bacon, *Advancement of Learning*, and Einstein, *Relativity*.

NOTE: Students who have received credit for LBCL 397 may not take this course for credit.

LBCL 398 *Liberal Arts College Selected Topics* (3 credits)**LBCL 399 *Liberal Arts College Selected Topics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LBCL 490 *The 20th Century: Forms, Themes, Critiques* (6 credits)

Prerequisite: LBCL 391; LBCL 393; or permission of the College. This course emphasizes key issues in contemporary society and culture. Major 20th-century texts and documents — philosophical, literary, political, and artistic, as well as analytical materials drawn from history and the social sciences, are read. Primary sources may include de Beauvoir, *The Second Sex*, Woolf, *To the Lighthouse*, Levi, *Survival in Auschwitz*, Hayek, *The Road to Serfdom*, Heidegger, *Being and Time*, as well as theorists such as Foucault, Lévi-Strauss, Barthes, and Derrida.

LBCL 491 *Integrative Seminar* (6 credits)

Prerequisite: Permission of the College. Students who have received credit for LBCL 490 may register for LBCL 491 provided the subject matter is different.

LBCL 494 *Liberal Arts College Special Studies: Antiquity to Renaissance/Reformation* (3 credits)

Prerequisite: Permission of the College. This course addresses a selected field within the chronological period above, emphasizing focused study of specific primary texts, as well as significant works of interpretation as appropriate to the selected field. Themes normally vary on a year-to-year alternating basis, so as to reflect the broad orientations (Structures and Dynamics of Western Civilization, Modes of Expression and Interpretation) which inform the core curriculum.

LBCL 495 *Liberal Arts College Special Studies: 17th Century to the Present* (3 credits)

Prerequisite: Permission of the College. This course addresses a selected field within the chronological period above, emphasizing focused study of specific primary texts, as well as significant works of interpretation as appropriate to the selected field. Themes normally vary on a year-to-year alternating basis, so as to reflect the broad orientations (Structures and Dynamics of Western Civilization, Modes of Expression and Interpretation) which inform the core curriculum.

LBCL 496 *Liberal Arts College Honours Essay Seminar* (6 credits)

Prerequisite: This course is open only to students at the College who have completed Stage II courses at the required academic level of performance. The student works with an individual faculty member in a chosen and approved area of the core curriculum, and must produce a sustained piece of written work approximately 40 pages in length. Students must also participate in an honours seminar in connection with their research and writing.

LBCL 498 *Liberal Arts College Advanced Topics* (3 credits)**LBCL 499 *Liberal Arts College Advanced Topics*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.525

LOYOLA COLLEGE FOR DIVERSITY AND SUSTAINABILITY

Principal

ROSEMARIE SCHADE, DPhil York (U.K.), Associate Professor, History

Fellows

ADEELA ARSHAD-AYAZ, PhD McG., Assistant Professor, Education
MATTHEW BARKER, PhD Wis.(Madison), Assistant Professor, Philosophy
WILLIAM BUKOWSKI, PhD Mich.State, Professor, Psychology
JAMES GRANT, PhD Guelph, Professor, Biology
DAVID HOWES, PhD Montr., Professor, Sociology and Anthropology
PK LANGSHAW, MFA U.Q.A.M., Associate Professor, Design and Computation Arts
JAMES MOORE, MA Tor., Distinguished Professor Emeritus, Political Science
ALAN E. NASH, PhD Camb., Associate Professor, Geography, Planning and Environment
KATJA NEVES-GRAÇA, PhD York (Can.), Associate Professor, Sociology and Anthropology
RAYMOND PAQUIN, DBA Boston, Assistant Professor, Management
DANIEL SALÉE, PhD Montr., Professor, Political Science/School of Community and Public Affairs
PETER STOETT, PhD Qu., Professor, Political Science

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Administration Building, Room: AD 502
Tel.: 514-848-2424, ext. 2125
Email: loyolaic@alcor.concordia.ca

Objectives

Loyola College for Diversity and Sustainability is designed as a secular college that addresses the academic needs of selected undergraduate students who seek to balance discipline-based instruction with interdisciplinary and cross-disciplinary communication in the arts and sciences. The educational philosophy of the College incorporates several objectives: to integrate international and global perspectives into higher education; to foster understanding of how the individual and society can operate more effectively in a global context of increased intercultural interaction; to develop a literacy of sustainability; to provide the practical tools needed to tackle the major issues facing humanity; to balance discipline-based instruction with interdisciplinary inquiry and cross-disciplinary communication; and to promote responsible citizenship and leadership in the 21st century.

Admission Requirements for Loyola College for Diversity and Sustainability

Students may apply simultaneously to Concordia University and Loyola College for Diversity and Sustainability by selecting "Loyola College for Diversity and Sustainability" from the drop-down menu on the Program(s) tab of the Online Application. Further information about the College can be obtained by telephone, email, or by visiting the College's offices. All students registered in the Minor in Diversity and the Contemporary World and the Minor in Sustainability Studies are welcome to become members of the College if they successfully complete three LOYC courses. All other undergraduate students may also join the College if they successfully complete three LOYC courses.

Performance Requirement

Students must obtain a minimum grade of "B" in all courses counting towards their minor and/or membership in order to continue in the College.

Facilities

Loyola College for Diversity and Sustainability is located on Concordia University's Loyola Campus. The College has student study and lounge areas, a small library, and a conference room, to which all College members have access. The facilities are intended to complement Loyola College for Diversity and Sustainability's role as a community where students have the opportunity to pursue both their academic and extracurricular interests in a supportive and stimulating environment.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

24 Minor in Diversity and the Contemporary World

- 15 Chosen from LOYC 210³, 220³, 230³, 310³, 320³, 330³, 340³
6 Chosen in consultation with a Loyola College for Diversity and Sustainability advisor
3 LOYC 420³

NOTE: The minor is designed for students to combine with an honours, specialization, or major in another discipline.

30 Minor in Sustainability Studies

- 6 BIOL 205³, LOYC 320³ to be taken in the first nine credits
9 Chosen from BIOL 226³; CHEM 209³; EXCI 233³; GEOG 203³; PHIL 236³; PHYS 270³; SCPA 215³
12 Chosen from AHSC 333³; ANTH/SOCI 352³; BIOL 353³; COMS 372³; ECON 391³; GEOG 321³; HIST 395³
3 POLI 394³

NOTE: Students are responsible for ensuring they have the necessary prerequisites for courses at the 300 level.

NOTE: Students must maintain a minimum grade of "B" in all courses taken toward the minor.

15-27 Foundation Year

- 6 LOYC 201³, 202³

*9-21 ANTH 272³; CHEM 209³; HIST 201³, 202³; POLI 205³; RELI 216³; THEO 233³

**Students must obtain permission from the Principal of the Loyola College for Diversity and Sustainability regarding course substitutions. Students who have received credit for these courses within their departmental program may not take these courses for credit toward their Loyola College for Diversity and Sustainability Foundation Year.*

NOTE: The foundation year is designed for students pursuing a 120-credit Extended Credit Program (ECP) in an undergraduate degree.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

LOYC 201 The Idea of Modernity (3 credits)

The fundamental ideas and assumption of the modern Western world were formed in the 17th-century European Enlightenment. This course begins with an historical overview of the Enlightenment, followed by an interdisciplinary investigation of the idea of modernity. It focuses on the central modern concepts of a person, society, nature, and good and evil, and looks at some challenges to the idea of modernity. Finally, it explores current pressures that have led to the contemporary form of thought known as postmodernism.

LOYC 202 What is the Environment? (3 credits)

The purpose of this course is to explore the broad set of interdependent phenomena that comprise the environments in which people live. These are: a) the natural environment of rocks, air, water, plants, and animals; b) the built environment including characteristics of cities, workplaces, and homes; and c) the cultural environment including the beliefs, attitudes, and institutions that affect how people perceive and behave in the environment.

LOYC 210 The 20th Century (3 credits)

This course provides select coverage of aspects of the historical forces and events that shaped the 20th century. The historical background of issues such as wars and peace, colonialism and postcolonialism, economics and the environment, and questions about ethnic and national diversity and cultural perception are explored. The course is intended to develop critical thinking together with basic bibliographic and writing skills.

NOTE: Students who have received credit for HIST 283 or HISZ 283, or for this topic under an HIST 298 or HISZ 298 number, may not take this course for credit.

LOYC 220 The Contemporary World (3 credits)

From a variety of perspectives, including historical, environmental, economic, and cultural, this course examines major issues facing the world today. These issues may include international trade and the economy, the regulation of garbage and pollution, the decline in cultural variability, the spread and control of disease, and the effects of mass communication. This course is intended to develop an appreciation of a global view of the challenges which the world is likely to face in the next few decades.

LOYC 230 Globalization and Diversity (3 credits)

This course explores the main differences between the world's major cultures, religious beliefs, and philosophies, and addresses the tensions between establishing universal values and maintaining cultural diversity in an age of accelerating globalization. There is also an emphasis on the conception of different levels of social complexity, principally the role of the individual, the interpersonal, and the group within a society. This course is intended to develop team research and presentation skills, and the ability to communicate and work effectively within a small group setting.

LOYC 298 Selected Topics in the Loyola College for Diversity and Sustainability (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LOYC 310 Science and the Contemporary World (3 credits)

This course explores the basic issues of the philosophy of science by examining the nature of science as an activity and a way of understanding the world. Cultural variations in the philosophy of science are discussed as well as contemporary disputes involving the interpretation of science: Darwinism; the "Science Wars"; science and religion; and feminist critiques of science. This course is intended to develop critical thinking and analysis, and deductive and inductive reasoning.

LOYC 320 Biodiversity on Earth (3 credits)

The current state of biodiversity around the world and the forces that affect this diversity are the main focus of this course. It addresses the origins of this diversity, the advantages of variability in the environment for human life, and the contemporary challenges to this diversity. This course is intended to emphasize holistic thinking and system analysis.

LOYC 330 Self, Culture, and Development (3 credits)

This course examines, from a psychological perspective, how the concept of self varies across cultures. Whereas some cultures embrace the concept of the individual, other cultures emphasize the communal nature of social and personal existence. This theme is explored from several perspectives including theory about development, the treatment of "self" in literature, cultural variations in the concept of human rights, and the link between self and society. This course is intended to demonstrate the interface between the medical and social sciences and the analysis of change.

LOYC 340 Culture and Communication (3 credits)

This course is an anthropological approach to variations in cultural experience as they relate to communication. Students explore modes of expression and communication, including literature and film, with a view to examining questions of interpretation, aesthetics, and ethical judgment. Personal expression and communication are also discussed. This course is intended to develop an awareness of the role of imagination and creativity in expression and interpretation, and sensitivity to the role of cultural and other differences in processes of communication.

NOTE: Students who have received credit for LOYC 410 may not take this course for credit.

LOYC 398 Selected Topics in the Loyola College for Diversity and Sustainability (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

LOYC 420 Integrative Seminar (3 credits)

Prerequisite: 12 credits of LOYC courses; or permission of the College. This course focuses on the conceptualization of cross-disciplinary inquiry and the problems of interdisciplinary communication. The role of discipline-based and cross-disciplinary research is studied. A brief intellectual history of discipline-formation and emerging interdisciplinary fields is discussed. One contemporary global issue is usually examined in detail in this context. This course is intended as a seminar for students completing the Minor in Diversity and the Contemporary World.

Principal

MICHAEL KENNEALLY, PhD *Tor.*, Professor

Professor

GEARÓID Ó HALLMHURÁIN, PhD *Belf.*

Assistant Professors

SUSAN CAHILL, PhD *U.Coll.Dub.*

GAVIN FOSTER, PhD *Notre Dame*

JANE G. V. MCGAUGHEY, PhD *Lond.*

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Hall Building, Room: 1001

514-848-2424, ext. 8711

Objectives

The School of Canadian Irish Studies offers interdisciplinary programs in the history and culture of Ireland and Irish emigration and settlement, especially in Canada.

Courses in Irish history, literature, politics, language, ethnomusicology, film, theatre, economics, religion, women's studies and popular culture, introduce students to Ireland's rich culture and complex society. Because of the country's unique history, students are also introduced to issues pertinent in other regions of the world, such as colonization and post-colonialism, cultural nationalism, dual linguistic and religious traditions, famine and migration, rebellion and civil war, sectarian conflict and reconciliation, and economic development and globalization. Ireland therefore offers a case study relevant to other cultures and societies.

Students from diverse backgrounds and disciplines are attracted by the interdisciplinary and comparative programs of Canadian Irish Studies which prepare them either for graduate studies or to enter the work force in a wide range of fields from cultural production to media, public service to law, or education to international relations. With its own library and meeting room, the School creates an intimate and welcoming intellectual environment which is enhanced by a public lectures series as well as cultural and community events. Scholarships and opportunities to study in Ireland are available to students in the programs.

Programs

Students are responsible for satisfying their particular degree requirements.

The superscript indicates credit value.

42 BA Major in Canadian Irish Studies

Stage I

- 12 HIST 211³; HIST 212³/IRST 210³; IRST 203³, 270³

Stage II

- 12 ENGL 357³; IRST 300³, 303³; ENGL 358³

Stage III

- 3 IRST 403³

- 15 Chosen from ENGL 353³, 355³, 356³, 359³; IRST 230³, 233⁶, 290³, 298³, 299⁶, 333⁶, 343³, 344³, 345³, 398³, 399⁶, 498³, 499⁶; IRST 205³ or HIST 213³; IRST 312³ or HIST 330³; IRST 314³, 315³, 316³, 371³, 373³, 412³; THEO 228³; WSDB 335³

24 Minor in Canadian Irish Studies

- 12 ENGL 357³; HIST/IRST 211³; IRST 203³, 270³

- 12 Chosen from ECON 379³; ENGL 355³, 359³; GEOG 342³; HIST 213³/IRST 205³; HIST 330³/IRST 312³; IRST 230³, 233⁶, 290³, 298³, 299⁶, 303³, 314³, 315³, 316³, 333⁶, 343³, 344³, 345³, 371³, 373³, 398³, 399⁶, 412³, 498³, 499⁶; MIRI 290⁶; THEO 228³; WSDB 335³; or other courses chosen in consultation with an advisor from the School of Canadian Irish Studies

- 30 Certificate in Canadian Irish Studies**
- 15 ENGL 357³; HIST/IRST 211³; IRST 203³, 270³, 303³
- 15 Chosen from ECON 379³; ENGL 355³, 359³; GEOG 342³; HIST 213³/IRST 205³, HIST 330³/IRST 312³; IRST 230³, 233⁶, 290³, 298³, 299⁶, 312³, 314³, 315³, 316³, 333⁶, 343³, 344³, 345³, 371³, 373³, 398³, 399⁶, 412³, 498³, 499⁶; MIRI 290⁶; THEO 228³; WSDB 335³; or other courses chosen in consultation with an advisor from the School of Canadian Irish Studies

NOTE: For details on the course descriptions in the programs listed above, please refer to the individual departmental course listings, and the IRST courses listed below.

Courses

IRST 203 *Introduction to Canadian Irish Studies* (3 credits)

This course is a multidisciplinary introduction to the field of Canadian Irish studies, a discipline that embraces a broad range of historical and contemporary issues as they have manifested themselves on the island of Ireland and in Canada. In particular, questions related to individual identity in the context of history, language, culture, landscape, and religion are explored and debated.

NOTE: Students who have received credit for this topic under an INTE 298 number may not take this course for credit.

IRST 205 (*also listed as HIST 213*)

***The Irish in Montreal* (3 credits)**

Drawing on a diversity of historiographical materials, this interdisciplinary course examines the story of the Irish in Canada with a particular emphasis on Quebec, from the French colonial period through the City of Montreal's golden era of mercantile prominence in the mid-19th century to the break-up of its older Irish neighbourhoods a century afterwards. Starting with the demographics of Irish immigration and settlement, it devotes special attention to social and cultural relations between the Irish and other ethnic groups.

NOTE: Students who have received credit for HIST 213 or for this topic under a HIST 398 number may not take this course for credit.

IRST 210 (*also listed as HIST 212*)

***The Irish in Canada* (3 credits)**

From 17th-century fishermen and traders arriving in Newfoundland to displaced victims of the Famine in the 19th century, to contemporary immigrants from Ireland, the Irish have had a presence in all parts of Canada from the earliest days of settlement. This course examines the emigration and settlement patterns of Irish immigrants in the various regions of Canada across a period of three centuries, paying particular attention to their role in the social, economic, political, cultural, and educational development of Canadian society. The course explores the various strategies by which Irish immigrants both adapted to and transformed the particular host society in which they found themselves, and looks at other immigrant communities as a means of understanding the special contribution of the Irish to Canada.

NOTE: Students who have received credit for HIST 212 or for this topic under a HIST 398 number may not take this course for credit.

IRST 211 (*also listed as HIST 211*)

***History of Ireland* (3 credits)**

This survey course traces the history of Ireland from the earliest times to the present, with emphasis on the 19th and 20th centuries. Special attention is given to the development of Irish nationalism and relations with Great Britain.

NOTE: Students who have received credit for HIST 211 or for this topic under an IRST 298 number may not take this course for credit.

IRST 230 *Irish Mythology and Folklore* (3 credits)

This course explores Irish culture through folklore and myth — in particular, their manifestations in Irish music, literature, performing arts, and cinema. It addresses the significance of myth and folklore in written and oral history, traditions, and iconography. The course focuses on the forms, functions, and influences of Irish legends, myths, and folktales that attract learned and popular interest in Ireland and abroad.

IRST 233 *The Irish Language and its Culture I* (6 credits)

This course provides a general introduction to Irish linguistic and cultural practices in modern and contemporary Ireland. It explores the principles of the Irish language and introduces students to the language through folklore, song, poetry, film, drama, and storytelling.

NOTE: Students who have received credit for MIRI 290 may not take this course for credit.

IRST 270 *Irish Traditional Music: A Global Soundscape* (3 credits)

Covering a tapestry of cultural history from the ancient Celts to modern mega shows like *Riverdance*, this multidisciplinary course focuses on Irish traditional music performed in Ireland, as well as throughout the world. Drawing on historiographical and ethnomusicological theory, the course uses recordings and documentary films to explore how globalization has interfaced with this traditional genre to create a thriving transnational arena of performance and creativity.

IRST 290 *Field Studies in Ireland* (3 credits)

Prerequisite: Permission of the School. Prerequisites are determined on an individual basis by the School. This course is designed to allow students to conduct focused study of a given subject (e.g. literature, history, language, music, film) in an Irish context. The experience in Ireland may be in the context of a structured school environment or may take the form of a more independent exploration. Based upon preparatory readings and assignments done at Concordia, students enrich their learning experience in

Ireland, followed by assignments completed upon their return to Concordia. All course content and requirements are established in consultation with the School.

NOTE: Students may take this course two times for credit provided the subject matter is different.

IRST 298 Selected Topics in Canadian Irish Studies (3 credits)

IRST 299 Selected Topics in Canadian Irish Studies (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

IRST 300 Research Methods in Irish Studies (3 credits)

Irish Studies span a spectrum of disciplines from the humanities, fine arts and the social and political sciences. Conducting research within this diverse domain requires a broad-based set of applied and theoretical skills. This interdisciplinary course prepares upper-level undergraduates for research in Irish studies, for academic and field situations in Ireland, and in Irish diasporic settings overseas. While cross-disciplinary methodologies are emphasized throughout the course, particular attention is given to research planning and logistics, archival investigation, cross-cultural interviewing, "participant observation" fieldwork training, applied theoretical modelling, and thesis management.

IRST 303 Irish Studies: Dispersal and Settlement (3 credits)

Prerequisite: IRST 203. This interdisciplinary course examines the Irish experience of emigration, exile, resettlement, and diaspora, emphasizing the Great Famine and its legacy in shaping Irish communities in Canada and elsewhere. It highlights debates about the impact of the Famine, the significance of Grosse-Île in Irish and Irish-Canadian cultural memory, the relationship between Irish emigration and nationalism, immigrant women and how Irish communities adopted a self-image of exile.

IRST 312 (also listed as HIST 330)

The Great Irish Famine (3 credits)

Prerequisite: 24 credits. This course examines the Irish Famine and its impact on Irish society, culture, and history. Beginning with a thorough examination of the economic, political, and social structures in pre-Famine Ireland, the course studies the causes of, and responses to, the Famine and its impact on society in Ireland and the world, including Quebec. Consideration is also given to the continuing re-examination of the Famine and its role in the politics of memory.

NOTE: Students who have received credit for HIST 330 or for this topic under a HIST 398 number may not take this course for credit.

IRST 314 Ireland in the 20th Century (3 credits)

This course surveys Irish political and social developments during the last century. Key themes include the struggle for independence from Britain, Anglo-Irish relations after independence, Partition and the Northern Irish "Troubles," and the emergence of a globalized and more prosperous Ireland.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

IRST 315 The Troubles in Northern Ireland (3 credits)

Prerequisite: IRST 314. After surveying the historical roots of the divisions in Northern Irish society, the course traces the successive phases of the prolonged "Troubles" (1968 to 1998): the Catholic civil rights movement; the period of armed conflict between the IRA, loyalist paramilitaries, and security forces; and the recent peace process. The course also considers the impact of the Troubles on Ireland (North and South) and Britain.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

IRST 316 The Irish Revolution, 1913-1923 (3 credits)

Prerequisite: IRST 314. This course explores the political, military, social, and cultural dimensions of the turbulent period in Irish history that dissolved over a century of Anglo-Irish Union and established two new states. The course necessarily focuses on Sinn Féin and the Irish Republican Army's efforts to achieve independence from Britain, but considerable attention is also given to Ulster Unionist resistance to separationism. Additionally, other forces and dynamics that shaped this seminal period are explored, such as sectarian violence in Northern Ireland; conflict between rival nationalist factions in the south; labour and socialist agitations; agrarian discontents; and the women's suffrage and feminist movements.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

IRST 333 The Irish Language and its Culture II (6 credits)

Prerequisite: IRST 233; MIRI 290; or permission of the School. Under pressure for over 200 years from the expanding use of English, Irish is still considered by many a crucial underpinning of Irish national identity. This course assumes elementary knowledge of the Irish language as a platform for students to access cultural forms (memoirs, poetry, short stories, sean-nós songs, films) and media such as radio, newspapers, television, and podcasts. In particular, the course examines how language is intimately tied to place and landscape (*dinnsheanchas*: the Irish lore of place names) and how it both actively and subliminally remains a potent force in Irish cultural life.

NOTE: Students who have received credit for this topic under an IRST 399 number may not take this course for credit.

IRST 343 Cinema in Quebec and Ireland (3 credits)

This course offers a comparative study of Quebec and Ireland's cinema. As cultures, Quebec and Ireland share a history of Catholicism, a relationship with British colonialism, anxiety around language, and unresolved debates about nationalism and state formation. But these points of contact are problematic. This course teases out the complexities and importance of some of these points of contact and divergence so as to engage, in a fully realized way, in a comparative analysis.

IRST 344 *Irish Plays: Dramaturgy* (3 credits)

This lecture/seminar course examines selected Irish plays, covering the background research necessary for their deeper contextual understanding — geography, politics, society, economy, class, history, religion, and moral values of the time and place. In addition to attending lectures and having the option to participate in play readings, students are expected to undertake research assignments in the above fields, to contribute to the creation of dramaturgical folders, and to participate in group presentations.

IRST 345 *Irish Plays: Performance* (3 credits)

This acting class in applied dramaturgy undertakes in-depth scene study of play extracts. There is an option for students to act as dramaturg(e)s and assistant directors to the scene study groups; that is, to have non-performing roles in the class. The students undertake extended dramaturgical analyses of plays, characters, and scenes, as well as learning the appropriate accents.

IRST 371 *Irish Cultural Traditions in Quebec* (3 credits)

Music, song, and dance have consistently acted as conduits for the integration of the Irish immigrants into Québécois society. This interdisciplinary course explores the history of Irish traditional music in Quebec since the 18th century. Using archive recordings, ballads, and dance music, the course traces the history of Irish settlement in Quebec, and focuses specifically on the diaspora of Irish music makers to the province. In exploring this eclectic soundscape, particular emphasis is given to Irish music communities in rural and urban Quebec, from the Gaspé through Quebec City and Montreal, to the Gatineau and Ottawa Valleys.
NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

IRST 373 *Irish Traditional Music in Canada: A Cultural History* (3 credits)

The cultural history of Irish traditional music in Canada is inextricably linked to a matrix of Irish immigration and settlement that began in the late 1600s and that stretched from Newfoundland to the Yukon, from Hudson Bay to the Great Lakes, evidenced in music played by Irish, French, Scottish, and First Nation communities across Canada today. Exploring the music history of the Irish in the Atlantic provinces, Lower and Upper Canada, and the Western provinces, this course draws on analytical models in history, anthropology, and cultural studies, as well as ethnomusicology and music criticism.

NOTE: Students who have received credit for this topic under a HIST 398 number may not take this course for credit.

IRST 398 *Special Topics in Canadian Irish Studies* (3 credits)**IRST 399 *Special Topics in Canadian Irish Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

IRST 403 *Irish Studies: Diasporic Transformation and Integration* (3 credits)

Prerequisite: IRST 303. This course examines the adaptation and integration of Irish communities into various host societies, with a particular emphasis on the Irish in Quebec and Canada. The course looks at the role which such communities played in shaping the social, cultural, political, economic, educational, and religious fabric of these host societies.

IRST 412 *Rebellion in Ireland and Quebec* (3 credits)

This seminar explores, from a variety of angles, two rebellions that marked the histories of Ireland and Quebec. The Irish Rising of 1798 and the Rebellions of 1837-8 in Lower Canada both pitted various sectors in society against one another. Students read broadly about the two rebellions, considering both their similarities and differences, reflecting on the different ways that historians have written about them, and exploring their place in the public memory of the two societies.

NOTE: Students who have received credit for this topic under a HIST 398 or 412 number may not take this course for credit.

IRST 498 *Advanced Topics in Canadian Irish Studies* (3 credits)**IRST 499 *Advanced Topics in Canadian Irish Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.540

SCHOOL OF COMMUNITY AND PUBLIC AFFAIRS

Interim Principal

DANIEL SALÉE, PhD Montr., Professor

Vice-Principal

MARGUERITE MENDELL, PhD McG., Professor

Associate Professors

KARL HELE, PhD McG.

ANNA KRZYNSKI, PhD McG.

Assistant Professor

LOUELLYN WHITE, PhD Ariz.

Fellows

WILLIAM BUXTON, PhD Berlin, Professor, Communication Studies

MIKE GASHER, PhD C'dia., Professor, Journalism

CHANTAL MAILLÉ, PhD U.Q.A.M., Associate Professor, Simone de Beauvoir Institute

ALAN E. NASH, PhD Camb., Associate Professor, Geography, Planning and Environment

LORNA ROTH, PhD C'dia., Professor, Communication Studies

FILIPPO SALVATORE, PhD Harv., Associate Professor, Classics, Modern Languages and Linguistics

JOHN ZACHARIAS, PhD Montr., Professor, Geography, Planning and Environment

Associate Fellow

MARVIN HERSHORN, MA Wat., Lecturer, Political Science

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus

Annex Cl, Room: 101

514-848-2424, ext. 2575

Objectives

The School of Community and Public Affairs (SCPA) offers a multidisciplinary program in public policy analysis. The School prepares its graduates to be knowledgeable participants in the policy-making process in the private, public, and community sectors.

An innovative combination of academic and practical training exposes students to a wide range of public issues. In small classes encouraging participation, students develop specialized abilities to do research, to communicate, and to organize public consultations and debates. An internship program also enables students to gain the necessary experience of working in a public affairs job.

The School will be of interest to excellent students in a variety of disciplines, including economics, history, political science, sociology, urban studies, journalism, and communication studies. While some of our students enter the work force upon completion of their undergraduate degree, the majority continue their education. SCPA graduates tend to do graduate work either in their disciplines or, more often, in professionally oriented programs including public or business administration, international affairs, industrial relations, and law.

The historic Mackay Street building which the School occupies is an ideal site for small classes, public lectures, social events, and meetings. School facilities include a common room, a reading room and documentation centre, a seminar room, a computer room, and faculty and student offices.

Program

Students who enrol in the School of Community and Public Affairs must follow, in sequence, a three-stage program comprised of the following courses:

42 BA Major in Community, Public Affairs and Policy Studies

Stage I

12 SCPA 201³, 203³, 215³; INTE 296³

3 Chosen from SCPA 204³/POLI 204³ or SCPA 339³/POLI 339³

3 Chosen from SCPA 205³/HIST 205³ or SCPA 210³/HIST 210³

- Stage II*
12 SCPA 301⁶, 321³, 352³
Stage III
9 SCPA 411³, 412³, 450³
3 Chosen from SCPA 460³/COMS 460³; SCPA 461³/COMS 361³; SCPA 465³/COMS 465³

The Disciplinary Program

Students enrolled in the SCPA major program are strongly encouraged to combine the School's major program with a departmental major, specialization, or honours program, and meet the Faculty of Arts and Science degree requirements.

Performance Requirements

Students are required to maintain an average of "B-" in program courses.

Entrance Requirements

Students admitted to the University and seeking to enter the School must have achieved a "B" average, or the equivalent at the previous educational level. Students wishing to enter the School will be interviewed personally and asked to complete a writing test. The interview process also serves to evaluate their language skills in both English and French. In exceptional circumstances, a candidate who has failed to meet the grade requirements might be admitted on the basis of a personal assessment of potential capacities.

For further information on curriculum, programs, personnel, and objectives, please call 514-848-2424, ext. 2579.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

SCPA 201 *Introduction to Public Policy and the Public Interest* (3 credits)

This course introduces students to the theoretical, philosophical, and ethical foundations as well as the social logic of public policy formulation in modern societies. Using a multidisciplinary approach, it pays particular attention to the complex interaction between groups, individuals, and institutions in society, and brings students to consider issues related to the nature of the modern state, business-government relations, the labour movement, non-profit and community organizations, the influence of interest groups, media and international institutions on the policy agenda.

NOTE: Students who have received credit for SCPA 300 or SCPZ 201 may not take this course for credit.

SCPA 203 *Community and Public Affairs in Quebec and Canada* (3 credits)

This course examines the interaction between civil society organizations and the state in the particular context of Quebec and Canada. It focuses on the labour movement, social movements and interest groups, and analyzes their role and influence in the policy-making process in Quebec and Canada, especially with regard to social policy, socio-economic development and human rights.

NOTE: This course is taught in French.

NOTE: Students who have received credit for SCPA 300 may not take this course for credit.

SCPA 204 *(also listed as POLI 204)*

***Introduction to Canadian Politics* (3 credits)**

This course is a basic introduction to the fundamental issues of Canadian public life and the federal political system. It presents an overview of the constitution, institutions, political parties, electoral system, interest groups, and public opinion that represent the essential components of Canada's political culture and government.

NOTE: Students required to take this course under Political Science as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 205 *(also listed as HIST 205)*

***History of Canada, Post-Confederation* (3 credits)**

A survey of Canadian history from Confederation to the present, emphasizing readings and discussions on selected problems.

NOTE: Students required to take this course under History as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 210 *(also listed as HIST 210)*

***Quebec since Confederation* (3 credits)**

A survey of the history of Quebec from the time of Confederation until the present. While due emphasis is placed on political developments in the province, the purpose of the course is to acquaint the student with the significant economic and social trends in modern Quebec.

NOTE: Students required to take this course under History as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 215 *Economics for Public Policy and Community Development* (3 credits)

Based on an overview of current economic issues, this course introduces students to the fundamental analytical tools and concepts that are necessary to understand economic public policy and relevant to community development and empowerment.

NOTE: Students who have received credit for SCPZ 215 may not take this course for credit.

SCPA 298 Selected Topics in Community and Public Affairs (3 credits)

SCPA 299 Selected Topics in Community and Public Affairs (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCPA 301 Social Debates and Issues in Public Affairs and Public Policy (6 credits)

Prerequisite: Successful completion of Stage I. This course emphasizes a deeper understanding of the process by which public policies are developed, implemented, and advocated, and of the role played by various institutions or groups in this process. Each year, a new set of key policy issues is selected for discussion and analysis. Students work in teams and are required to do case studies of institutions or groups relevant to the policy or public affairs issue they have chosen. The focus is on developing both communication skills, through oral and written presentations, and organizational skills as each team must organize one public panel discussion on one of the selected issues. The course takes place over the fall and winter terms.

NOTE: Students who have received credit for SCPA 401 may not take this course for credit.

SCPA 321 Public Affairs Strategies (3 credits)

Prerequisite: Successful completion of Stage I or permission of the School. This course examines and analyzes the ways in which corporate, public, and community organizations anticipate, monitor, and manage their relations with the social, political, and environmental forces which shape their operations and influence their action in their respective field. It familiarizes students with the strategies most often used in public affairs management, and develops the skills required for effective results.

SCPA 339 (also listed as POLI 339)

Quebec Politics and Society/La vie politique québécoise (3 credits)

This course is a study of the changing party structure and political issues in Quebec and their relationship to constitutional, cultural, and economic factors.

On étudiera dans ce cours l'évolution structurelle des partis et des questions politiques au Québec en fonction de facteurs d'ordre constitutionnel, culturel et économique.

NOTE: Students required to take this course under Political Science as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

NOTE: The course will be offered in both English and French on a rotational basis. Please consult the Undergraduate Class Schedule for details.

NOTE: Students who have received credit for POLI 211, POLI 339 or SCPA 211 may not take this course for credit.

SCPA 352 Community and Local Activism (3 credits)

The goal of this course is to share, study, and debate dimensions of community and local activism. It critically examines traditions and histories of a variety of perspectives and presents current examples of local and community activism.

NOTE: Students who have received credit for ANTH 353 or SCPA 353 or SOCI 353, or for this topic under a SCPA 398 number, may not take this course for credit.

SCPA 398 Special Area Study in Community and Public Affairs (3 credits)

Prerequisite: Successful completion of Stage I. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCPA 411 Internship (3 credits)

Prerequisite: Successful completion of Stages I and II. An essential part of the School's program is a one-term apprenticeship in some aspect of community and public affairs. After completing 60 credits of the BA program, including Stages I and II, students are required to complete a practicum that will allow them to test their skills in a real situation. Placements may be drawn from all areas of possible employment, including the private sector, government and community service organizations. Students are expected to participate fully in finding and defining possible internships. Employers are asked to join in an evaluation of the work period. Students are required to submit a written report which summarizes and evaluates their work experience.

SCPA 412 Senior Research Seminar (3 credits)

Prerequisite: Successful completion of Stages I and II. In this course, students work in groups and are required to play out the position of a given corporate, public, or community organization in a simulation of real-life interaction between social and political actors over a particular policy issue. To this end, they must research and prepare all the necessary material (such as briefs, position papers, press kits) that will allow them to defend and make their policy position known. The actual simulation takes place in a one-day event at the end of the term.

SCPA 450 Neo-Liberal Globalization and the Global Justice Movement (3 credits)

This course, by examining global justice movements in the context of neo-liberal globalization, focuses on social movements, public policy and community.

NOTE: Student who have received credit for this topic under a SCPA 498 number may not take this course for credit.

SCPA 460 (also listed as COMS 460)

Political Communication (3 credits)

Prerequisite: Successful completion of Stages I and II. The relationships between media institutions and political institutions, both

in Canada and internationally, are examined. Issues such as the flow of political information; the social and political construction of news; the politics of regulation; the politics of influence in campaigns, nation-building socialization through media; ideology in the media, and alternatives to traditional media are explored.

NOTE: Students required to take this course under Communication Studies as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

**SCPA 461 (also listed as COMS 361)
Propaganda** (3 credits)

Prerequisite: Successful completion of Stages I and II. The aim of this course is to recognize the orchestration of the elements of propaganda in media, and to develop the means to deal with it. Course methodology includes lectures, discussions, and projects.

NOTE: Students required to take this course under Communication Studies as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

**SCPA 465 (also listed as COMS 465)
Rhetoric and Communication** (3 credits)

Prerequisite: Successful completion of Stages I and II. This course focuses upon communication as persuasive or as producing identification. Emphasis is placed upon the role of communication in civic affairs. Classical and contemporary approaches to rhetorical theory and criticism are examined.

NOTE: Students required to take this course under Communication Studies as part of a major or specialization in that discipline must replace the credits with a course chosen in consultation with the SCPA advisor.

SCPA 498 Special Topics in Community, Public Affairs and Policy Studies (3 credits)

Prerequisite: Successful completion of Stages I and II. This course provides focused, in-depth examination and analysis of a particular policy topic, public affairs issue, or problem of community development. The subject of inquiry changes every year.

Program Objectives

The First Peoples Studies program is a major designed to introduce the student to the world of First Peoples (First Nations, Inuit, and Métis), specifically within the Quebec context. It investigates the history, the current situation, and the changing needs of First Peoples. Taught from First Peoples perspectives and based on sound, culturally sensitive research, the program's aim is to bring accurate awareness and a better understanding of First Peoples issues, develop further understanding of society's standing in relation to First Peoples, and build bridges towards mutual understanding between Quebec society and First Peoples. Students are encouraged, though not required, to take either a minor in another area of study, or a second major in order to facilitate the acquisition of complementary knowledge and practical skills relevant to contributing to the well-being and advancement of First Peoples.

Program

42 BA Major in First Peoples Studies*

Stage I

- 9 FPST 201³, 202³, 203³
- 6 Chosen from FPST 210³, 211³, 212³, 298³

Stage II

- 9 FPST 301³, 302³, 303³
- 6 Chosen from FPST 310³, 311³, 312³, 320³, 321³, 322³, 323³, 398³; RELI 368³; WSDB 381³

Stage III

- 6 FPST 401³, 402³
- 6 Chosen from FPST 410³, 411³, 412³, 413³, 414³, 415³, 490³, 491³; COMS 419³

*Subject to MESRST approval.

24 Minor in First Peoples Studies

- 12 FPST 201³, 202³, 203³, 301³

- 3 Chosen from FPST 210³, 211³, 212³

- 3 Chosen from FPST 310³, 311³, 312³

- 3 Chosen from FPST 302³, 303³, 320³, 321³, 322³, 323³

- 3 Chosen from FPST 401³, 402³, 411³, 412³, 413³, 414³, 415³, 490³, 491³

Courses

FPST 201 Introduction to First Peoples Studies (3 credits)

This course introduces the guiding concepts central to First Peoples Studies at Concordia. These guiding concepts are often misunderstood by mainstream society. Themes include the Medicine Wheel as a structuring approach to course content and teaching/learning; worldviews; colonization and decolonization; First Peoples thought and knowledge; the diversity among First Peoples; and individual and community empowerment within First Peoples frames of reference. Principles and practices of dialogue and cross-cultural communication are introduced. A key process goal of the course is for students to explore, with increasing skill and knowledge, their own motivations, positioning, and goals in relation to pursuing First Peoples Studies.

FPST 202 *Research Strategies in First Peoples Studies* (3 credits)

This course introduces basic concepts, practices, and issues for study and research consistent with the goals of First Peoples Studies, including the historical relation of First Peoples to academic research; ethical considerations; the social construction of knowledge, the influence of First Peoples thought, knowledge, and ways of knowing on the development of relevant contemporary research; basic steps of designing, carrying out, and presenting research within several contemporary models, including participatory research; constructive relations of people of other cultures to researching in the area; qualitative and quantitative research methods, including asking research questions; and basic skills of interviewing, as well as treating, analyzing and presenting interview data, within qualitative research.

FPST 203 *First Peoples of Canada* (3 credits)

This course provides an introductory overview of knowledge related to the eleven cultural groups of First Peoples in Canada. It explores theories of migration, geographic location, cultural and linguistic diversity, historical socio-economic and political systems as well as the relationships with the environment and traditional practices and beliefs. In-depth focus is placed on representative nations within each group.

FPST 210 *Haudenosaunee Peoples* (3 credits)

This course traces the history of the Haudenosaunee (Iroquois) from the period of the founding of the Confederacy to the present. With particular focus on the Kanien'kehaka (Mohawk) of Quebec, it includes discussion on the culture, language, and structure of Haudenosaunee society, the formation of the Haudenosaunee Confederacy, traditional philosophies such as the Kaienerekowa (Great Law of Peace) and the Code of Handsome Lake, Kanonsesro:non (people who adhere to the ways of the Longhouse), symbolism, as well as contemporary issues, including the impact of Euro-Canadian government policies.

FPST 211 *Algonquian Peoples* (3 credits)

This course explores the specific cultures of the Algonquian peoples of Canada with an emphasis on the peoples of Quebec (the Abenaki, the Algonquin, the Attikamek, the Cree, the Innu, the Malecite, the Mik'maq, and the Naskapi) and in particular the Eeyou (the Cree Nations). From a historical perspective and using a sociological approach, this course examines social and political structures, gender-defined roles, relationship with the environment, as well as spirituality and language. This course also examines changing roles and structures influenced by colonization, including the imposition of federal policies.

FPST 212 *Inuit Peoples* (3 credits)

This course explores the specific cultures of the Inuit peoples in Canada with a particular emphasis on the Inuit people of Nunavik (Northern Quebec). The course examines social and political structures, gender-defined roles, the Arctic way of life, the Inuit language and its dialects, as well as the spiritual beliefs of the Inuit. This course also examines changing roles and structures influenced by colonization, including the imposition of federal policies.

FPST 298 *Selected Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

FPST 301 *The Indian Act* (3 credits)

Prerequisite: FPST 201, 202. This course focuses on the Indian Act, with an emphasis on its impact on the First Peoples of Quebec. This includes discussion of the events leading up to its imposition, its implications for First Peoples cultures and societies, as well as related policies and other instruments of assimilation and colonization. Issues of accommodation and resistance are discussed. Effects of proposed changes to the Indian Act are analyzed and alternative solutions are explored.

FPST 302 *First Peoples and Education* (3 credits)

Prerequisite: FPST 201, 202. This course traces the history of the education of the First Peoples. It explores current issues in education, including educational approaches defined and implemented by First Peoples. Topics covered include traditional ways of learning and teaching. The issue of colonization, including early attempts at religious and linguistic conversion, as well as Canada's residential school system and its continuing legacy, are discussed in depth.

FPST 303 *First Peoples and Health* (3 credits)

Prerequisite: FPST 201, 202. This course addresses First Peoples wellness philosophies and healing approaches in dealing with contemporary health problems. It draws significantly on historical perspectives of First Peoples mental, physical, spiritual, and emotional health issues, including pre-contact health and environments, the introduction of alcohol and viral disease, as well as the emergence of lifestyle-related diseases. Some of the current health issues to be explored include structural inequalities, institutional mistreatment, addictions, diabetes, HIV/AIDS, and mental health.

FPST 310 *Linguistic Introduction to Algonquian Languages* (3 credits)

This course presents a general overview of the eight Algonquian languages spoken in Quebec, with special emphasis on the Cree language. The course introduces the student to basic vocabulary, different dialects and writing systems. It explores the basic components that make up Algonquian languages, including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages, semantic shift and the use of language as a social tool. This course assists the student to recognize and value the social and cultural context of language.

FPST 311 *Linguistic Introduction to Haudenosaunee Languages* (3 credits)

This course presents a general overview of the six Haudenosaunee (Iroquoian) languages, with special emphasis on Kanien'kehaka (the Mohawk language). The course introduces the student to basic vocabulary, different dialects and writing systems. It explores

the basic components that make up Haudenosaunee languages including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages. This course assists the student to recognize and value the social and cultural context of language.

FPST 312 *Linguistic Introduction to Inuktitut Language* (3 credits)

This course presents a general overview of the Inuktitut language, with special emphasis on the dialect spoken in Nunavik (Northern Quebec). The course introduces the student to basic vocabulary, different dialects, and the syllabic writing system used by Inuit people. It explores the basic components that make up Inuktitut, including sounds, word composition, sentence structure and meaning. Other topics include linguistic interference from dominant languages. This course assists the student to recognize and value the social and cultural context of language.

FPST 320 *First Peoples and the Media* (3 credits)

This course explores how First Peoples have been portrayed in selected media such as television, film, and advertising by looking at different representations in various industries such as advertising, sports, and tourism. This includes discussion on the relationship between media and First Peoples including the media's impact on relations between the mainstream society and First Peoples. The social role of different forms of media as used by First Peoples in the process of empowerment is also discussed.

FPST 321 *First Peoples and Justice* (3 credits)

Prerequisite: FPST 301. This course focuses on the relationship between First Peoples and the Canadian justice system. It looks specifically at how the Canadian legal, judicial, and penal system has dealt with First Peoples through time. The course also explores pre-contact forms of justice, tensions between European and indigenous conceptions of justice, First Peoples response to Canadian justice, and the emergence of alternative, indigenous mechanisms of judicial administration within communities in Quebec and Canada.

FPST 322 *First Peoples and the Fur Trade* (3 credits)

This course provides an in-depth historical and sociological analysis of the impact of the fur trade on the First Peoples of Canada. Topics include the emergence of the fur trade, and fur-trading companies' dependence on First Peoples. Special emphasis is placed on changing demographics as a result of the fur trade, the increasing reliance on European goods, First Peoples entrepreneurial spirit, the birth of the Métis Nation, as well as the evolving political and economic role of women within fur-trading society.

FPST 323 *First Peoples Sacred Stories* (3 credits)

Prerequisite: FPST 201 or 203. Through storytelling, reading, discussion, and writing, this course explores themes of fundamental human concern for First Peoples. It considers oral traditions as integral to broader, culturally defined systems of knowledge and explores the role of sacred stories in traditional and contemporary societies. This includes discussion on the role of stories as vehicles for encoding and transmitting knowledge about the people, the environment, the culture and history. Stories analyzed include creation stories, trickster tales, oral historical accounts, and stories relating to natural phenomena.

FPST 398 *Special Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

FPST 401 *Contemporary Politics in First Peoples Communities* (3 credits)

Prerequisite: FPST 301. This course focuses on First Peoples politics in the Quebec and Canadian contexts. It explores more specifically the emergence and actions of First Peoples political organizations over the past 40 years, First Peoples relationships with successive federal and provincial governments, movements of national self-affirmation, and the nature of the political interface between competing groups inside First Peoples communities.

FPST 402 *First Peoples Contemporary Social Issues* (3 credits)

Prerequisite: FPST 302, 303. This course addresses contemporary social issues and challenges faced by First Peoples. It analyzes the underlying causes of issues such as poverty, lack of formal education, isolation, alcohol and substance abuse, family violence and sexual abuse. The course also examines current healing approaches and programs used to deal with these issues, and fosters discussion on possible alternatives.

FPST 410 *First Peoples Community Development* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course examines the concepts and experiences of community development among First Peoples, with an emphasis on Quebec. Selected community development models, their goals, processes, and means of evaluation, are analyzed. The course introduces students to analytical and practical skills in context-sensitive community development guided by First Peoples thought and knowledge. Students explore dynamics of nourishing community participation and leadership, as well as analyze community structures and inter-group relations within communities. Reference is made to on-reserve, urban, rural, and northern contexts. Ethical considerations are discussed. This course includes analysis of case studies.

FPST 411 *First Peoples Treaties and Agreements* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course explores the contemporary issues associated with treaties and indigenous land claims agreements. Emphasis is placed on selected historically significant treaties between the First Peoples, and those between the First Peoples and the Europeans. The original intent and framework of treaties and agreements, the negotiation processes involved, and the implementation of treaties and modern agreements are also discussed.

FPST 412 *First Peoples and Governance* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course examines the political and administrative mechanisms which First Peoples use to arbitrate competing interests, manage conflict, and formulate policies in their communities across Quebec and Canada. The course analyzes political and administrative institutions inherited from the Indian Act, as well as governance strategies developed in conformity with First Peoples traditions and in resistance to the Canadian state's institutional dominion. The course also explores the tensions created by the coexistence of European and indigenous modes of governance within and outside First Peoples communities.

FPST 413 *First Peoples International Relations and Diplomacy* (3 credits)

Prerequisite: FPST 321. This course focuses on the actions and interventions of various First Peoples on the international scene, both in the past and in the present. The course's primary aim is to explore the reasons why First Peoples have resorted to international forums and institutions, how they conduct their international action and whether in the end international diplomacy works to their advantage.

FPST 414 *First Peoples Rights Movements* (3 credits)

Prerequisite: FPST 401 and 402, previously or concurrently. This course focuses on the many historical and contemporary forms of First Peoples resistance to colonization, including violent and non-violent resistance, revitalization movements and self-determination. It explores liberation theory and its roots in colonial oppression and analyzes historical and contemporary resistance movements such as the confrontation at Kanehsatake (Oka) and Esgenoopetitj (Burnt Church) and the movement for decolonization through self-determination.

FPST 415 *Indigenous Identity and Nationalism* (3 credits)

Prerequisite: FPST 401 previously or concurrently. This course explores the political and ideological ramifications of the expression of indigenous identity. It focuses on the emergence of First Peoples nationalist movements, compares them with non-Aboriginal nationalisms, and examines the nature and conceptual foundations of the indigenous sense of nation. Attention is devoted to the political efficiency of indigenous nationalism in its interface with the Canadian and Quebec states. Case studies particularly emphasize Kanien'kehaka and Eeyou nationalisms.

FPST 490 *Aboriginal Community Economic Development I* (3 credits)

Prerequisite: Enrolment in the major; 60 credits and permission of the School. This course assists participants in exploring specific issues related to Aboriginal economic development in particular settings (in reserve, urban, rural, and northern communities), as well as addressing challenges common to Aboriginal CED. It assists participants in exploring historical and contemporary relationships between Aboriginal communities and the predominant cultural and economic forces, and comparing traditional Aboriginal organizational and economic practices with the new approaches being proposed by CED.

FPST 491 *Aboriginal Community Economic Development II* (3 credits)

Prerequisite: FPST 490. This course uses a case study approach to evaluate one or more economic development strategies applied within an Aboriginal community. An historical overview of this experience outlines the cultural and political context which has shaped these strategies as well as their results. CED approaches are examined in the context of this individual experience. This course may include on-site visits and guest lecturers.

FPST 498 *Advanced Topics in First Peoples Studies* (3 credits)

Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

31.550

SCIENCE COLLEGE

Principal

CALVIN S. KALMAN, PhD *Roch.*, *Provost's Distinction, Professor, Physics*

Fellows

SYED T. ALI, PhD *Roch.*, *Professor, Mathematics and Statistics*
SIMON L. BACON, PhD *Birm.*, *Associate Professor, Exercise Science*
WAYNE BRAKE, PhD *McG.*, *Associate Professor, Psychology*
GRANT BROWN, PhD *Nfld.*, *Professor, Biology*
ALEXANDRE CHAMPAGNE, PhD *C'nell.*, *Assistant Professor, Physics*
RICHARD DEMONT, PhD *Pitt.*, *Associate Professor, Exercise Science*
EMMA DESPLAND, PhD *Oxf.*, *Associate Professor, Biology*
JAMES GRANT, PhD *Guelph*, *Professor and Chair, Biology*
JOHN HARNAD, DPhil *Oxf.*, *Provost's Distinction, Professor, Mathematics and Statistics*
PAUL JOYCE, PhD *Dal.*, *Professor, Chemistry and Biochemistry*
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GUILLAUME LAMOUREUX, PhD *Montr.*, *Assistant Professor, Chemistry and Biochemistry*
DAVID MUMBY, PhD *Br.Col.*, *Associate Professor, Psychology*
JUDITH PATTERSON, PhD *Virginia Poly.Inst.*, *Associate Professor, Geography, Planning and Environment*
PETER PAWELEK, PhD *McG.*, *Associate Professor, Chemistry and Biochemistry*
JAMES G. PFAUS, PhD *Br.Col.*, *Professor, Psychology*
NATALIE PHILLIPS, PhD *Dal.*, *Professor, Psychology*
DIANE POULIN-DUBOIS, PhD *Montr.*, *Professor and Associate Director, CRDH Psychology*
REGINALD STORMS, PhD *Alta.*, *Professor, Biology*
VLADIMIR TITORENKO, PhD *Inst.Genetics & Indust.Micro.*, *Associate Professor, Biology*
VALTER ZAZUBOVITS, PhD *Tartu*, *Associate Professor, Physics*

Affiliate Fellows

MICHEL COTÉ, PhD *Calif.(Berkeley)*, *Physics, Université de Montréal*
MAJID FOTUHI, MD *Harv.*, PhD *Johns Hopkins Medical Centre and Sinai Hospital of Baltimore*
LUCIEN-ALAIN GIRALDEAU, PhD *McG.*, *Biology, U.Q.A.M.*
MICHAEL GREENWOOD, PhD *McG.*, *Medicine, McGill University*

For the complete list of faculty members, please consult the Department website.

Location

Loyola Campus

Richard J. Renaud Science Complex, Room: SP 363.00 – 363.09
514-848-2424, ext. 2595

Objectives

The aim of the Science College is to prepare students enrolled in one of Concordia's science programs for a life of research, teaching, or some similarly demanding intellectual pursuit in a profession. The academic program of the College complements the regular undergraduate curriculum and includes cross-disciplinary courses and student participation in laboratory research activities from the first year on. The collegial atmosphere fosters interaction among students and between students and faculty.

In Science College, students will gain an understanding of several areas of science, while specializing in whichever one they choose. Curricular structures frequently restrict students to a single discipline. To help counteract excessive specialization, the Science College has designed a series of courses to show what practising physicists think about physics; what mathematicians do when they are thinking mathematics: — not "an introduction to," but "the state of the art."

The College provides an opportunity for students to become acquainted with science as practised and understood by scientists today. Its curriculum is planned to fulfill the primary goals of the College — to provide an opportunity for experience in a research environment, for thinking about the nature of science, and for becoming aware of the style and content of the various scientific disciplines.

In Science College, students have the opportunity to work individually with active research scientists. This is done through a program of directed or independent study in each undergraduate year which enables them to undertake or participate in projects of discovery in a variety of different areas of scientific endeavour.

Students of the College will also be provided with an opportunity to consider the nature of science. The College offers courses in the intellectual and social context of science. Designed specifically for College students, these courses raise questions of broad interest to scientists and presume an understanding of the subject matter of science itself.

Students will also be given the opportunity to consider the social and cultural framework of their science studies through a basic course in some aspect of humanistic studies.

Finally, students will be encouraged to appreciate the link between clarity of thought and clarity of expression, through the availability of tutorial assistance in the development of writing skills.

Facilities

The College has study and lounge areas, computer facilities, a small library, and a few periodicals of general interest. The College offers students the opportunity and facilities to discuss matters of interest among themselves and with their professors. Science College also offers a number of courses and invites scientists to visit the University to meet College students.

Requirements for Admission to Science College

The program of Science College is academically demanding, involving concentration in one discipline and a critical investigation of other aspects of science. The College is committed to serious academic work and high standards, and seeks to attract talented and enthusiastic students who are willing to work hard in a search for a deeper understanding of their subject.

Students must enrol in a science program that leads to a BSc or BA (cognitive science) degree in order to be part of Science College. Students registered for a BA in Journalism are also eligible, as are students registered in the General Science Option of Computer Science.

In addition to the normal requirements for admission to the University's various programs, applicants are expected to have a good academic average. They will be considered on the basis of their academic record, and a personal interview. Preference will be given to students who show a disposition and an aptitude to profit from the unique features of the sort of fundamental scientific education which the College offers. Applicants are encouraged to provide evidence of the range of their intellectual interests and of any creative activity in which they may have been involved.

Students must be prepared to attend courses at times outside the normal University schedule. The College is open to full-time students only.

Science College and Journalism

A limited number of students who have been admitted to the Major in Journalism program may be allowed to register in the Science College, with a view to combining a basic understanding of science with a training in journalism.

Performance Requirement

Students in the College must obtain a minimum grade of "B-" in all courses required for the Minor in Multidisciplinary Studies in Science, as well as in all courses counted toward their discipline-based honours, specialization, or major program. Students who receive a grade lower than "B-" are permitted to repeat the course. Students who receive a second grade lower than a "B-" are normally withdrawn from the minor.

Further Information

Further information on the courses and activities of the Science College may be obtained either by writing or by telephoning the College office. Personal interviews with a fellow of the Science College may be arranged through the Science College office.

Science College Curriculum

The College offers a Minor in Multidisciplinary Studies in Science, consisting of a core of courses which is required of all students. This core consists of 30 of the 90 credits normally required for a BSc degree. These courses have been developed specifically for the College with the intention of providing a unique, integrated program of education in science.

Program

In addition to completing the core curriculum, students are responsible for satisfying their particular degree requirements by completing a departmental honours, specialization, or major program leading to a BSc or BA (cognitive science). The superscript indicates credit value.

24-30 Minor in Multidisciplinary Studies in Science

- 6 SCOL 270⁶
- 6 SCOL 290³, 390³
- 6 SCOL 490^{6*}
- 12 Chosen from SCOL 350^{3***}; SCOL 360^{3***}; LBCL 291^{6**}, 292^{6**}

*After consultation with the College, this course may be replaced by BIOL 490, CHEM 450, or PSYC 495.

**Only one of these courses may be taken.

***This course may be repeated twice for credit in this program, provided the subject matter is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.

NOTE: Students who have taken BIOL 490, CHEM 450, or PSYC 495 are not required to take SCOL 490.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

SCOL 270 Historical, Philosophical, and Social Aspects of Science (6 credits)

Prerequisite: Membership in the Science College, or permission of the College. This course discusses the intellectual framework of science and the relationships between science and society, and the political and philosophical questions inherent in the scientific process. Students are expected to understand the scientific issues at the level at which they were originally addressed.

SCOL 290 Directed and Independent Study I (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. The student works under the supervision of a member of the Faculty on either a practical laboratory project or a literature study. A formal, written report is required.

SCOL 350 Current Issues in Physical, Biological and Mathematical Sciences (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. This course is designed to help students understand the "state of the art" in fields of science in which they are not specializing. It discusses problems under current study, and attempts to identify possible future directions of research. The approach is qualitative. Detailed technical knowledge is not prerequisite.

Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: This course may be repeated twice for credit in this program, provided the subject matter is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.

NOTE: Students who have received credit for SCOL 351, 352, or 353 may not take this course for credit if the subject matter is the same.

SCOL 360 Topics for Multidisciplinary Study (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. The purpose of this course is to introduce students to problems and areas of study which transcend traditional disciplinary barriers. A chosen area of investigation is treated from the viewpoint of various disciplines. Lectures from different areas may be used for this purpose. The aim is to show the contributions made by each field to the understanding of the problem, and how they complement each other.

Specific topics for this course will be stated in the Undergraduate Class Schedule.

NOTE: This course may be repeated twice for credit in this program, provided the subject matter is different each time. In special circumstances and with permission of the College, a repeat of this course may be replaced by a science course at the 300 level or higher outside the student's program.

NOTE: Students who have received credit for this topic under a SCOL 398 number may not take this course for credit.

SCOL 370 Selected Readings in Multidisciplinary Study (3 credits)

Prerequisite: Membership in the Science College and/or permission of the College. The purpose of this course is to introduce students to problems and areas of study which transcend traditional disciplinary barriers. A chosen area of investigation is treated from the viewpoint of various disciplines. Readings from different areas may be used for this purpose under guidance of one or more fellows of the College. The aim is to show the contributions made by each field to the understanding of the problem, and how they complement each other.

NOTE: Students who have received credit for this topic under a SCOL 398 number may not take this course for credit.

SCOL 390 Directed and Independent Study II (3 credits)

Prerequisite: Membership in the Science College, or permission of the College. A student who has completed SCOL 290 registers for SCOL 390. Students are encouraged to work in a field different from that of their SCOL 290 project.

SCOL 398 Selected Topics in Multidisciplinary Studies (3 credits)

Prerequisite: Membership in the Science College and/or permission of the College. Specific topics for this course, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

SCOL 490 Directed and Independent Study III (6 credits)

Prerequisite: Membership in the Science College, or permission of the College. A student who has completed SCOL 390 registers for SCOL 490. Students are encouraged to work in a field different from that of their SCOL 290 and 390 projects. Students complete a research project approved in advance by the College, under the supervision of a fellow of the College and/or a faculty member in a scientific discipline at Concordia or elsewhere.

NOTE: After consultation with the Science College, students may register in BIOL 490, CHEM 450, or PSYC 495 and upon successful completion be exempted from SCOL 490. Students may also choose to do the honours project and in addition a SCOL 490 project.

31.560

SIMONE DE BEAUVIOR INSTITUTE AND WOMEN'S STUDIES

Principal

GENEVIÈVE RAIL, PhD *III.*, Professor

Professor

VIVIANE NAMASTE, PhD *U.Q.A.M.*, Provost's Distinction

Associate Professors

GADA MAHROUSE, PhD *Tor.*
CHANTAL MAILLÉ, PhD *U.Q.A.M.*

Fellows

ADEELA ARSHAD-AYAZ, PhD *McG.*
RACHEL BERGER, PhD *Camb.*
LINDA KAY, MA *C'dia.*
KIMBERLY MANNING, PhD *Wash.*
LORNA ROTH, PhD *C'dia.*
ROSEMARIE SCHADE, DPhil *York (U.K.)*

Permanent Fellows

ARPI HAMALIAN, MA *Amer.of Beirut*
ELIZABETH HENRIK, PhD *Tulane*
SUSAN HOECKER-DRYSDALE, PhD *Louisiana State*
MAIR E. VERTHUY, MA *Tor.*
KATHERINE WATERS, MA *Oxf.*

Research Associates

FARIDA ABLA, MFA *Ark.*
CHRISTIANA ABRAHAM, PhD *McG.*
SIMA APRAHAMIAN, PhD *McG.*
MICHIKO ARAMAKI, PhD *McG.*
AMÉLIE BARRAS, PhD *L.S.E.Lond.*
RENA K. BIVENS, PhD *Glas.*
SONIA CANCIAN, PhD *C'dia.*
JEAN CHAPMAN, PhD *Brad.*
DOLORES CHEW, PhD *Calc.*
KARIN DOËRR, PhD *McG.*
TATIANA FRASER, MM *McG.*
DOROTHY GELLER, PhD *George Washington*
DANA HEARNE, PhD *Tor.*
SAFINAZ JADALI ARAGHI, PhD *R.Schuman, Strasbourg*
ABBY LIPPMAN, PhD *McG.*
PAULINE MCKENZIE AUCOIN, PhD *Tor.*
ELIZABETH J. MEYER, PhD *McG.*
DENISE NADEAU, MA *Oxf.*
RUMANA NAHID SUBHAN, PhD *Nagoya*
KATHLEEN O'GRADY, PhD *Trin.Coll.Camb.*
JILL STRAUSS, DPhil *Ulster*
TLILI HAÏFA, PhD *Paris V, Sorbonne*
NOORTJE VAN AMSTERDAM, MSc *Amst.*
TRACY YING ZHAN, PhD *S.Fraser*

For the complete list of faculty members, please consult the Department website.

Location

Sir George Williams Campus
Annex MU, Room: 202
514-848-2424, ext. 2370

Objectives

The Institute strives to stimulate the investigation and understanding of the role of women in society and to encourage women to develop their creative potential. In research and teaching, special attention is given to gender, race, class, and sexual orientation. The Institute has several objectives: to investigate the history, current situation, and changing needs of women; to generate support for research topics relevant to women; to encourage full recognition of women's contribution to human achievement; to ensure that women and gender issues are studied in a non-discriminatory manner; to strengthen women's rights and the conditions for exercising them; to ensure the equality of all individuals without distinction of race, sex, age, language, or religion. Women's Studies encompass and modify all areas of knowledge. Through the introduction of new perspectives and new research, this field of study helps to correct and complete the traditional scholarly record. It is in essence interdisciplinary and multidisciplinary since the specificity of the condition of women embraces all existing disciplines. It thus questions the concept and structures of knowledge contained within the disciplinary boundaries and contributes to bringing about a reunification of the knowledge and scholarship that has become increasingly fragmented.

SIMONE DE BEAUVOIR INSTITUTE

Founded in 1978 to promote the understanding of the historical and contemporary situation of women in society, the Simone de Beauvoir Institute of Concordia University helps women to discover and develop their potential, both by its academic base in Women's Studies and by its co-curricular activities. We are honoured that Simone de Beauvoir authorized us to use her name, and expressed great interest in being informed of our activities.

All students registered in the Specialization, Major, Minor, or Certificate in Women's Studies are members of the Institute. Other undergraduate students are welcome to become members if they undertake to complete nine credits of WSDB courses.

The co-curricular life of the Institute is extremely important, and all members are expected to contribute to our activities. Exciting opportunities are available to organize workshops, colloquia, and debates on subjects that interest the members, as well as to collaborate with women's organizations outside the University on research projects and other joint ventures.

Admission Requirements for the Simone de Beauvoir Institute

Students may apply simultaneously to Concordia University and the Simone de Beauvoir Institute by filling out and submitting the Concordia University Application for Admission with the box for "Colleges" checked and "Simone de Beauvoir Institute" written in the space provided. Further information about the Institute can be obtained by calling or visiting its offices or website at wsdb.concordia.ca.

Programs

*Students are responsible for satisfying their particular degree requirements.
The superscript indicates credit value.*

Students should consult with the Women's Studies advisor prior to registering for Women's Studies courses.

60 BA Specialization in Women's Studies

- 24 WSDB 290³, 291³, 292³, 380³, 480³, 490³, 496⁶
- 18 Chosen from WSDB 383³, 384³, 390³, 391³, 392³, 393³, 394³, 491³, 494³
- 18 Chosen from the list of Optional Courses

NOTE: To be admitted to the specialization, students must have completed a minimum of 24 credits in the Women's Studies Major and obtain approval from the Principal following the submission of a letter of intent. In addition, students must have a minimum GPA of 3.0 to be accepted and must maintain an overall WGPA of 3.0 while in the specialization.

42 BA Major in Women's Studies

- 18 WSDB 290³, 291³, 292³, 380³, 480³, 490³
- 15 Chosen from WSDB 383³, 384³, 390³, 391³, 392³, 393³, 394³, 491³, 494³
- 9 Chosen from the list of Optional Courses

30 Minor in Women's Studies

- 15 WSDB 290³, 291³, 292³, 380³, 480³
- 9 Chosen from WSDB 383³, 384³, 390³, 391³, 392³, 393³, 394³, 490³, 491³, 494³
- 6 Chosen from the list of Optional Courses

30 Certificate in Women's Studies

- 15 WSDB 290³, 291³, 292³, 380³, 480³
- 9 Chosen from WSDB 383³, 384³, 390³, 391³, 392³, 393³, 394³, 491³, 494³
- 6 Chosen from the list of Optional Courses

Students may transfer into the certificate program up to 12 credits earned in an incomplete degree or certificate program or as an Independent student, provided they are students in good standing. The credits that may be so transferred are determined by the University at the point of entry into the program.

Optional Courses

WSDB 275³, 298³, 335³, 365³, 370³, 375³, 381³, 382³, 383³, 384³, 390³, 391³, 392³, 393³, 398³, 490³, 491³, 492³, 498³; ANTH 276³; ARTH 381³; CLAS 353³; COMS 368³, 472³; EDUC 321³; ENGL 303⁶, 351³, 352³, 382³, 393³; FLIT 360³, 471³, 472³; FMST 329³, 392³, 393³; HIST 305³, 347³; INTE 270⁶, 275³; PHIL 371³, 471³; POLI 309³; RELI 381³, 382³, 383³, 384³, 385³, 386³, 387³, 392³; SOCI 276³, 380³, 475³, 476³; SCPA 352³; THEO 295³

NOTE: Students should consult the appropriate departments concerning possible prerequisites for the courses listed under Optional Courses.

Language/Langue

Les règlements actuels permettent à toute étudiante et tout étudiant d'écrire ses devoirs ou examens en anglais ou en français dans tous les cours offerts, à l'exception des cours de langue. La langue d'enseignement sera normalement l'anglais.

Non-francophone students may equally submit assignments in English in Français 451, 476, and 477, as long as they are taking the course for credit in Women's Studies or as an elective, and not as part of a program of the Département d'études françaises.

Courses

Because of the renumbering of courses in the Department, students should see §200.1 for a list of equivalent courses.

N.B.:

- (1) 300-level courses are generally open only to students who have successfully completed at least 15 credits which include WSDB 290 and 291. Students who do not have these prerequisites may also register with permission of the Institute.
- (2) 400-level courses are generally open only to students who have successfully completed at least 30 credits which include WSDB 290, 291, and 380. Students who do not have these prerequisites may also register with permission of the Institute.

WSDB 275 Women of Colour (3 credits)

This course provides an overview of the experience of visible minority women in North America, exploring the lives and cultures of individuals who confront both racism and sexism, as well as the ways they create communities of support and resistance.

NOTE: Students who have received credit for this topic under a WSDB 298 number may not take this course for credit.

WSDB 290 Introduction to Historical Perspectives in Women's Studies (3 credits)

This course provides an introduction to theories and writing that affect the lives of women. Through the writing of feminist authors, students examine, from mainly the 20th century, the development of feminist theories and debate. Specific authors may include Simone de Beauvoir, Audre Lorde, Gloria Anzaldua, Gloria Davis, Adrienne Rich, Monique Wittig, and Chandra Mohanty.

WSDB 291 Introduction to Contemporary Concerns in Women's Studies (3 credits)

This course explores a range of current issues and debates within feminism. Using interdisciplinary feminist theories that consider how systems of power such as patriarchy, capitalism, racism, and heterosexism constitute one another, it examines particular local and global topics of interest/concern which may include health, education, work, violence against women, globalization, militarism, media and cultural representations, families, and feminist activism.

NOTE: Students who have received credit for WSDZ 291 may not take this course for credit.

WSDB 292 Feminisms and Research Methods (3 credits)

Prerequisite: Enrolment in a Women's Studies program or permission of the Institute. This course exposes students to a variety of research practices from a feminist perspective. These practices can include oral history, interviews, archival research, and participant observation. Students learn how to gather, analyze, and effectively present ideas and information. Practical, hands-on exercises offer an opportunity for learning. Examination of research methods occurs in dialogue with questions of how knowledge is organized. Students are also exposed to recent developments in information literacy. This course prepares students to conduct their own research projects throughout their studies.

WSDB 298 Selected Topics in Women's Studies (3 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

WSDB 335 Gender and Nation: The Irish Experience (3 credits)

This course looks at women in Irish politics, culture, and society from the late-18th century to the present, with particular focus on the 20th century. It examines the nature of women's involvement in nationalist and feminist movements, their position in relation to the state, the Church (Catholic and Protestant), education, work, sexuality, and cultural production (literature, visual art, and film).

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 365 Feminist Theory and Popular Culture (3 credits)

This course examines how feminism has not only commented on the world of pop culture but has entered and altered it. Through a study of television, film, advertising, pop music, cyber culture, and kiddie culture, students look at the ways in which popular culture has impacted how women view themselves and how they are viewed.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 370 *Workshops in Special Areas of Women's Studies* (3 credits)

Prerequisite: See N.B. number (1). The purpose of these workshops is to examine a number of issues relevant to Women's Studies. Specific topics for this course will be stated in the Undergraduate Class Schedule.

WSDB 375 *Black Women's Culture* (3 credits)

This course surveys the historical and contemporary experience of Black women in North America through the lenses of culture — the daily culture they live through family, community, work, health issues, belief systems, and power relations, as well as the culture they make through expressive forms like literature, music, theatre, film, and dance.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 380 *Feminist Thought I* (3 credits)

Prerequisite: See N.B. number (1). This course introduces students to the main aspects of feminist thought across the disciplines. Through a selection of readings and case studies, feminist thought is examined in two interrelated senses: the exercise of woman-centred inquiry, and feminism as a critique of existing knowledge frameworks. Students are introduced to fundamental feminist notions such as the distinction between the private and the public, the notion of experience, androcentrism, and the division between the family and the economy. The history of feminist thought is explored as well as its articulation since the 1970s and its contribution to Women's Studies and to social theory in general. Also examined is the potential and power of different feminist theories to effect social change and transform the social world they analyze.

WSDB 381 *First Nations' Women* (3 credits)

Prerequisite: 18 credits, including WSDB 290, 291, and 292, and nine credits from other WSDB or elective courses. This course aims to acquaint students with North American First Nations, particularly the women's contemporary realities. Other pedagogical objectives are to facilitate an understanding of cultural perception; to develop a critical viewpoint of ethnocentrism in mainstream society; to introduce the current debate around minority representation, cultural appropriation, and post-colonial theory.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 382 *Science, Technology and Women's Lives* (3 credits)

Prerequisite: See N.B. number (1). This course explores both historical trends and contemporary concerns regarding women, science, and technology. It investigates stereotypes of science and scientists; western science vs. native knowledge; science as a social activity and as a career choice for women; and the effects of science and technology on women's lives.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 383 *Lesbian Issues and Realities* (3 credits)

Prerequisite: 18 credits, including WSDB 290, 291, 292, and nine credits from other WSDB or elective courses. This course introduces students to the field of lesbian studies and examines lesbian existence within a historical as well as a contemporary context. A central theme of the course is diversity among lesbians, not only in terms of race, class, ability but also in terms of political consciousness.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 384 *Queer Feminism* (3 credits)

This course especially addresses lesbian and bisexual perspectives on perverse desire, its expression and its reflection in art, cinema, popular culture, poetry, fiction, and queer theory. It studies these through a critical examination of issues arising in the historical institutions of law, medicine, religion, psychoanalysis, philosophy, and biology, to representations of sexuality in popular culture, media, and local politics and grassroots practices, drawing upon examples committed to feminist politics of location.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 390 *Women and Peace* (3 credits)

Prerequisite: See N.B. number (1). This course covers a series of themes related to feminist peace politics such as violence, wars against women, militarism, roles played by women during wars, war mythologies, women in the military, the war industry and the new world order, feminist peace activism.

WSDB 391 *Health Issues: Feminist Perspectives* (3 credits)

Prerequisite: See N.B. number (1). This course presents feminist, intersectional, postcolonialist, poststructuralist and queer examinations of a variety of women's health issues. It explores the complex cultural politics that tend to legitimize existing power relations in health care, health research, and "health" industries. Topics include biopolitics and surveillance of women's bodies, medicalization and disease mongering, patriarchal capitalism and the health industry, cosmetic surgery and oppression or agency, women's health and sociocultural identifications, feminist medical ethics, and alternative and feminist health care.

WSDB 392 *Féminismes dans la francophonie* (3 crédits)

Préalable: 18 crédits, dont WSDB 290, 291, et 292, plus neuf autres crédits en WSDB ou cours électifs. A partir de textes théoriques et d'ouvrages traitant de la vie quotidienne, ce cours examine les similitudes, les analogies et les traits distinctifs des luttes des femmes durant les deux dernières décennies, ici et ailleurs dans la francophonie, notamment les luttes des Arabes, des Antillaises ou des femmes d'Afrique noire.

WSDB 393 *Critical Race Feminisms* (3 credits)

Prerequisite: See N.B. number (1). This course explores the concepts of race, racism, and racialization, alongside feminist theories and practices. Drawing from feminist and critical race theories, the course focuses on questions of power, knowledge production, and interlocking systems of oppression within local and global contemporary contexts. It provides opportunities to reflect upon anti-racist feminist practice and to apply anti-racist analyses.

NOTE: Students who have received credit for this topic under a WSDB 398 number may not take this course for credit.

WSDB 394 *Tutorial in Women's Studies* (3 credits)

Prerequisite: Enrolment in a Women's Studies program; 24 university credits including WSDB 290, 291, 292 and 380; and permission of the Institute. In addition, students must have a minimum GPA of 3.0 (B) and a demonstrated ability to carry out independent research. Tutorials are given only in exceptional circumstances and should focus on a topic not covered under the normal curriculum. A Tutorial Request form must be completed by the student and then approved by a full-time Simone de Beauvoir Institute faculty member acting as a supervisor.

NOTE: Students who have received credit for this topic under a WSDB 398 or 498 number may not take this course for credit.

WSDB 398 *Selected Topics in Women's Studies* (3 credits)**WSDB 399 *Selected Topics in Women's Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.

WSDB 480 *Feminist Thought II* (3 credits)

Prerequisite: See N.B. number (2). While *Feminist Thought I* examines feminism as critique of theory in various historical and disciplinary topics, this course looks closely at the different feminist theories of the social world. The course considers fundamental concepts of Marxist feminism, post-structuralist feminist theory, feminist critical theory, and post-colonialist feminisms. Students learn how to summarize these different theoretical approaches, as well as how to think about them in a comparative manner.

WSDB 490 *Feminist Ethics* (3 credits)

Prerequisite: See N.B. number (2). This interdisciplinary seminar considers the effect of systems of gender, race, and class on women's place in society. It takes into account recent developments in feminist scholarship in the humanities and social sciences.

WSDB 491 *Feminist Perspectives on Culture* (3 credits)

Prerequisite: See N.B. number (2). This seminar explores the central concepts and theories in feminist cultural studies, as they inform feminist, post-colonial, queer, and post-structuralist understandings of culture. The focus is on women as cultural producers and subjects in/of various cultural texts (e.g. cinema, visual arts, music, advertising, popular media, feminist writings). The discursive construction of gender, as it is inflected by class, race, sexuality, and location, is examined as well as the ways in which it is used, displayed, imagined and performed in contemporary culture. Students develop practical and analytical skills, posing questions of how particular cultural narratives function within social, political and economic contexts. Students are required to participate in and lead discussions of the readings and to create and/or critique cultural productions.

WSDB 492 *Post-colonial and Anti-colonial Feminist Theories and Practice* (3 credits)

Prerequisite: See N.B. number (2). The course is devoted to understanding the gendered dimensions of colonial/imperial relations of power and resistance both in historical and contemporary contexts. The main themes covered in the course include settler colonialism in Canada; knowledge, representations and power; contemporary challenges and resistance to anti-imperialist struggles; and post-colonial analyses of current economic and political relations.

NOTE: Students who have received credit for this topic under WSDB 498 may not take this course for credit.

WSDB 494 *Advanced Tutorial in Women's Studies* (3 credits)

Prerequisite: Enrolment in a Women's Studies program; 24 university credits including WSDB 290, 291, 292, 380; and permission of the Institute. In addition, students must have a minimum GPA of 3.0 (B) and a demonstrated ability to carry out independent research. Tutorials are given only in exceptional circumstances and should consist of a topic not covered under the normal curriculum. A Tutorial Request form must be completed by the student and then approved by a full-time Simone de Beauvoir Institute faculty member acting as a supervisor.

NOTE: Students who have received credit for this topic under a WSDB 398 or 498 number may not take this course for credit.

WSDB 496 *Directed Research* (6 credits)

Prerequisite: Enrolment in the Specialization in Women's Studies; 30 credits, including WSDB 290, 291, 292, 380, 480, and permission of instructor. Students work with an individual faculty member in a particular area of Women's Studies. Students are expected to produce a substantial research project.

WSDB 498 *Seminar in Women's Studies* (3 credits)**WSDB 499 *Seminar in Women's Studies*** (6 credits)

Specific topics for these courses, and prerequisites relevant in each case, will be stated in the Undergraduate Class Schedule.