BISHOP'S

Academic Calendar

2014 / 2015

UNIVERSITÉ BISHOP'S UNIVERSITY

UNIVERSITÉ
BISHOP'S
UNIVERSITY

The Mission Statement

In 1843 the founders of Bishop's University declared their intention "to offer to the country at large the blessing of a sound and liberal education." Today our goal remains the education of individuals, primarily at the undergraduate level, to develop their talents and realize their leadership potential. Intellectual achievement is crucial to our mission and thus the University promotes academic excellence through an emphasis on teaching enriched by scholarship and research. The Bishop's experience begins with close interaction between professor and student but extends beyond the classroom to provide the basis for critical thinking and effective communication, while also fostering community spirit and lasting friendships. Located in the bilingual setting of the Eastern Townships, Bishop's offers students from Quebec, Canada, and the International community the opportunity to exercise the rights and responsibilities of good citizenship and to engage in the tolerant and informed dialogue that sustains democracy.

A — SERVICES

1. John H. Price Sports Centre
2. Coulter Field
3. W.B. Scott Arena/outdoor pool
4. Centennial Theatre
5. Artists' Centre (Art Gallery)
6. Bandeen Hall (Music Dept.)
7. Residence/Conference Services
8. Security
9. Golf course
10. Panda Daycare Centre
11. University Bookstore
12. Health Services

B — RESIDENCES & DINING FACILITIES

1. Dewhurst Dining Hall
2. Abbott Hall
3. Kuehner Hall
4. Munster Hall
5. Mackinnon Hall
6. Norton Hall
7. Pollack Hall
8. Adams Dining Room (A.D.R.)
9. Paterson Hall

C — ADMINISTRATIVE AUXILIARY BUILDINGS

1. St. Mark's Chapel
2. McGreer Hall (Administration, Liaison/ Admissions, Visitors)
3. Service Buildings
4. Bishop Mountain House (Student Centre)
5. Marjorie Donald House (Student Centre)
6. Faculty Residences
7. "Hangar"
8. Peter D. Curry Wetland Habitat

& D — ACADEMIC BUILDINGS

1. Johnson Science Building
2. Bassett Memorial Library
3. Divinity House
4. Morris House
5. Hamilton Building
6. Nicolls Arts Building (Continuing Education / Éducation permanente)
7. Cormier Centre/Dobson-Lagassé Centre
8. Molson Fine Arts Building

E — Champlain College

P — Parking for Visitors

NOTICE:

The Academic Calendar is produced in both print and electronic format. The University will consider the most recent electronic version as the official University publication.

Archival copies are available at
http://www.ubishops.ca/academic-programs/calendar/index.

The Academic Calendar provides guidance to prospective students, applicants, current students, faculty and staff.

1. Bishop's University reserves the right to make changes to regulations, programs, courses, credit requirements, facilities, and fees – without prior notice.
2. In the interpretation of academic regulations, the Senate is the final authority.
3. Students are responsible for informing themselves of the University's procedures, policies and regulations, and the specific requirements associated with the degree or certificate sought.
4. All students registered at Bishop's University are considered to have agreed to act in accordance with the University procedures, policies and regulations.
5. Although advice is readily available on request, the responsibility of selecting the appropriate courses for graduation must ultimately rest with the student.
6. Not all courses are offered every year and changes can be made after publication. Always check the class schedule on the Bishop's portal for the most up-to-date information on whether a course is offered.
7. The academic publication year begins at the start of the Fall semester and extends through to the end of the Spring semester of any given year. Students who begin their studies at any point within this period are governed by the regulations in the academic calendar which came into effect at the start of the Fall semester.

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BISHOP'S UNIVERSITY
Sherbrooke, QC J1M 1Z7

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E-mail ..... admissions@ubishops.ca
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Continuing Education 819-822-9670
E-mail ..... contedu@ubishops.ca
School of Education ..... 819-822-9600 ext. 2658
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E-mail ..... recruitment@ubishops.ca
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Fax 819-822-9616
E-mail ..... records@ubishops.ca
Registrar's Office ..... 819-822-9600 ext. 2676
Fax 819-822-9616
Residence Office ..... 819-822-9600 ext. 2685
Fax 819-822-9615
E-mail ..... residence@ubishops.ca
Student Accounts, Financial Aid ..... 819-822-9600 ext. 2655
E-mail ..... businessoffice@ubishops.ca
Website ..... www.ubishops.ca

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2014

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Sessional Dates 2014–2015

Graduate Summer School 2014

Monday	Jul. 07, 2014	Beginning of classes for M.Ed.
Monday	Jul. 14, 2014	add/drop deadline
Friday	Jul. 18, 2014	WP Deadline
Thursday	Aug. 07, 2014	End of classes for M.Ed.

Fall 2014 semester

Monday	Aug. 25, 2014	Beginning of classes for B.Ed.
Monday	Sep. 01, 2014	Labour Day
Wednesday	Sep. 03, 2014	Classes begin for all Day and Evening courses
Friday	Sep. 12, 2014	Last day to add/ drop or change sections for all fall semester and full-year courses
Monday	Oct. 13, 2014	Thanksgiving
Friday	Oct. 17, 2014	Last to withdraw with permission from any 3 credit fall semester course
Wednesday	Nov. 19, 2014	Wednesday only classes end
Thursday	Nov. 20, 2014	Thursday only classes end
Friday	Nov. 21, 2014	Friday only classes end
Tuesday	Nov. 25, 2014	Tuesday / Thursday and Tuesday only classes end
Wednesday	Nov. 26, 2014	Make-up day for Thanksgiving Mon. classes (MW, MWF, and M only classes end); fall semester day & evening classes end (Except B.Ed.)
Friday	Nov. 28, 2014	End of classes for B.Ed.
Saturday	Nov. 29, 2014	Fall semester examinations begin
Friday	Dec. 12, 2014	Fall semester examinations end
Tuesday	Dec. 16, 2014	Deadline for instructors/ professors to submit fall semester grades
December 22 - January 2		University closed

Winter 2015

Monday	Jan. 05, 2015	Beginning of internships for B.Ed.
Monday	Jan. 05, 2015	Classes begin for Education Final Semester Step 1 Students
Tuesday	Jan. 06, 2015	Classes begin for all Day and Evening courses
Thursdayw	Jan. 15, 2015	Last day to add/ drop or change sections of 3 credit winter semester courses; Last day to WP from 6 credit courses
Friday	Feb. 20, 2015	Last day to withdraw with permission from any 3 credit winter semester course
	March 2-6	Reading week
Monday	Mar. 09, 2015	Beginning of 6 week practicum for Education Final Semester Step 1 students
Tuesday	Mar. 31, 2015	Tuesday only classes end
Wednesday	Apr. 01, 2015	Wednesday only classes end
Thursday	Apr. 02, 2015	Tuesday / Thursday and Thurday classes end
Friday	Apr. 03, 2015	Good Friday (University Closed)
Monday	Apr. 06, 2015	Easter Monday (University Closed)
Tuesday	Apr. 07, 2015	Make-up Good Friday (Friday only classes end)
Wednesday	Apr. 08, 2015	Make-up Easter Monday (Monday and Monday Wednesday classes end)
Friday	Apr. 10, 2015	End of internship for B.Ed.

Sunday	Apr. 12, 2015	Winter semester examinations begin
Monday	Apr. 13, 2015	Classes resume for B.Ed.
Friday	Apr. 17, 2015	End of 6 week practicum for Education Final Semester Step 1 students
Monday	Apr. 20, 2015	Return to classes for Education Final Semester Step 1 students
Friday	Apr. 24, 2015	End of classes for B.Ed. and Education final semester Step 1
Friday	Apr. 24, 2015	Winter semester examinations end
Tuesday	Apr. 28, 2015	Deadline for instructors/ professors to submit Winter semester grades
Saturday	Jun. 06, 2015	Convocation

Spring 2015

	May 4-5	Spring semester classes begin
Monday	May. 12, 2014	Last Day to Add/ Drop classes
Monday	May. 18, 2015	National Patriot's Day (Victoria Day)
Friday	Jun. 05, 2015	Last day to withdraw with permission from Spring Semester course
Friday	Jun. 12, 2015	Make-up day National Patriot's Day (Victoria Day)
	June 15-16	Spring Semester Day & Evening examinations

General Information

Characteristics

Bishop's is a predominantly residential university whose primary concern is offering to undergraduate students a quality education in Arts, Sciences, Business Administration and Education. Its academic programs are broadly based and stress the interrelationships of disciplines rather than their specializations. The residential aspect and small size of the University encourage an informal atmosphere in academic and social situations. Emphasis is placed on personal contact between faculty and students through small classes and frequent use of seminars, laboratories and tutorials. Self-directed study is encouraged with student research projects and special independent study programs. Approximately 2,800 full-time and part-time students were enrolled in Bishop's courses in 2013-14.

Location

Bishop's University is attractively situated in the Sherbrooke borough of Lennoxville, amid the rolling hills of the Eastern Townships of southern Quebec. The campus occupies a 500-acre tract at the junction of the St. Francis and Massawippi rivers, bordered on the west by the borough of Lennoxville and on the east by open countryside. Several lakes, bike trails and numerous ski resorts within short driving distances supplement the recreational facilities on the campus.

Origin and Development

The University was founded as Bishop's College in 1843 under the sponsorship of the Right Reverend G. J. Mountain, third Anglican Bishop of Quebec, with the assistance of a group of clergy and laymen of the Eastern Townships. According to the intention of its founders, Bishop's was to have two functions: "to offer to the country at large the blessing of a sound and liberal education" and to provide training for the clergy. Ten years later, in 1853, the College received a royal charter granting it the right to confer degrees.

The early development of Bishop's was gradual. Its original grant of land, forty acres, was donated by Lieutenant-Colonel William Morris. On this site, the first building, consisting of the five central bays of what is now McGreer Hall, was erected and occupied in 1846. The chapel was consecrated in 1857, an Arts Building in 1861 (destroyed by fire in 1891), a new Arts Building (now the Johnson Building) and Divinity House in 1892. The first degrees granted by Bishop's, in 1854, were in Arts and Divinity. In 1871, a medical faculty was established in Montreal, which functioned until 1905 when it was merged with the Medical Faculty of McGill University. A small Faculty of Law awarded 15 degrees between 1881 and 1888. Specialized programs in Professional Education and in the Natural Sciences were introduced in the 1920s.

The administration of Bishop's remained under the aegis of the Church of England until 1947 when the Corporation of the University was reconstituted as a nondenominational body.

In 1949, an extensive development program was initiated with public support. Most of the present facilities have been constructed since that time: Norton Hall and Pollack Hall residences, the Memorial Gymnasium (now Memorial House, part of the Student Centre) and the central heating plant in 1949-50; the John Bassett Memorial Library, Mackinnon Hall residence and several faculty houses in 1958-59; the W.B. Scott Memorial Rink in 1961; the Jasper H. Nicolls Arts Building, the John Hamilton Administration Building and Bishop Mountain House students' centre in 1962-63; Abbott Hall, Kuehner Hall and Munster Hall residences in 1964-66; a new wing to the Andrew S. Johnson Science Building in 1966; the Centennial Theatre in 1967; an addition to the John Bassett Memorial Library in 1970; a new football stadium in 1971; the John H. Price Sports and Recreation Centre in 1975; Marjorie Donald House, a new wing of the Student Centre, in 1977. The Molson Fine Arts Building and an extension to the library were added in 1990. The Centennial Theatre was renovated and expanded to include an Art Gallery in 1991. In 1998, improvements were made to Memorial House and Marjorie Donald House, which now form part of the University Centre. An apartment-style residence, Paterson Hall, was opened in the fall of 2003. In 2008 a Field Turf surface was installed on Coulter Field. The Johnson Science Labs underwent an extensive renovation in 2009, and were re-opened in early 2010.

Since 1949, the student body and faculty have more than trebled in size. Many new programs have been introduced, including a Bachelor's degree program in Business Administration, numerous specialization options and a variety of inter-disciplinary programs. In 1970, following the institution of colleges of general and vocational education (CEGEPs) at the pre-university level in Quebec, Bishop's, along with other universities in the province, reorganized its undergraduate programs to lead to the Bachelor's degree in three years of study beyond the collegial level.

Thus, Bishop's University had its beginnings more than a century and a half ago as a private college supported by the Church of England. During its early development, a strong humanistic tradition was established in its programs and teaching. Since 1949, the University has evolved rapidly as part of a provincially supported system of higher education. Bishop's assumes a distinctive role in this system as a relatively small and residential university with broadly based programs. Bishop's aims to offer a well-rounded liberal education adapted to the needs and opportunities of the day.

Academic Organization

Bishop's has integrated its academic resources into a single faculty to facilitate communication in academic affairs within the University and to provide maximum flexibility in the design of programs. Academic disciplines (e.g. History, Environmental Studies and Geography, Biology) are represented by departments which are grouped into three areas — Arts and Science (including the Divisions of Humanities, Natural Sciences and Mathematics, and Social Sciences), the Williams School of Business and the School of Education.

Programs

Bishop's undergraduate programs lead to Bachelor's degrees in Arts, Science, Education and Business Administration. Subjects offered for Honours or Major specialization in Arts include Classical Studies, Drama, Economics, English, Environmental Studies and Geography, *Études françaises et québécoises*, Fine Arts, History, Liberal Arts, Modern Languages, Music, Philosophy, Political Economy, Political and International Studies, Psychology, Religion, Sports, Studies, Sociology. In Science, the major subjects are Biochemistry, Biology, Chemistry, Computer Science, Mathematics, Physics and Psychology (Neuroscience). Interdisciplinary Concentrations or Minor specializations are also possible in many areas, including a unique Liberal Arts-Engineering program offered in collaboration with the *Université de Sherbrooke*.

Students may design their programs within a broad framework of options. A student may opt to major in a single subject — e.g. English, Psychology or Chemistry; or in some combination of subjects from more than one Division — e.g. Geography and History or Mathematics and Music. Honours programs are offered in many subjects. Major or Honours and Minor specializations may be combined in a program.

In addition to offering undergraduate programs leading to the B.Ed. degree, the School of Education prepares graduates for the Master of Arts in Education and the Master of Education.

Part-Time Studies

Bishop's University is dedicated to fulfilling the lifelong learning needs of community part-time students, and offers courses in Knowlton as well as on the Lennoxville campus. Its mission is to assure accessibility within the Eastern Townships to high quality educational programs for adult learners pursuing part-time degree and certificate studies and those seeking personal and professional development. A variety of degree courses are offered year round in the Fall, Winter and Spring semesters.

Association with Champlain Regional College

Champlain Regional College is part of the provincial system of colleges of general and vocational education (CEGEPs). One of its three sites has been on the campus of Bishop's University since 1971. While Champlain's administrative offices and some classrooms are located in the College's own building, virtually all other campus facilities are shared with Bishop's. A spirit of mutual cooperation between the two institutions and student bodies has allowed this arrangement, unique in the province, to succeed.

Please note that particular application and course registration deadlines for each institution must be observed. It is advisable to contact the Admissions Office for further information.

Inquiries about Champlain should be addressed to:
Champlain College Lennoxville
C.P. 5003
Sherbrooke Quebec
J1M 2A1
Tel: 819-564-3666
E-mail: admissions@crc-lennox.qc.ca

Affiliation with the Thomas More Institute for Adult Education

Qualified graduates of the Thomas More Institute for Adult Education, 3405 Atwater Avenue, Montreal, Quebec, may be granted the Bachelor of Arts degree by Bishop's University, by an affiliation agreement concluded by the two institutions in 1974. The degree program of the Thomas More Institute is designed for mature adults, normally over 23 years of age, and offers to such persons a special opportunity to continue their formal education in the Liberal Arts tradition. For information: 514-935-9585.

Admission

General inquiries from prospective students should be directed to:

Recruitment Office
Bishop's University
2600 College Street
Sherbrooke, Quebec
J1M 1Z7
Tel. 819-822-9600 ext. 2681
or 1 877-822-8200
E-mail: *recruitment@ubishops.ca*
Website: www.gobishops.ca

APPLYING TO BISHOP'S UNIVERSITY

Application Procedure

Applications must be submitted online at www.gobishops.ca. Supporting documents should be submitted to:

Admissions Office
Bishop's University
2600 College Street
Sherbrooke, Quebec
J1M 1Z7
Tel.: 819-822-9600 ext. 2680
or 1-877-822-8200
E-mail: admissions@ubishops.ca

All applications must be accompanied by:

A non-refundable application fee paid electronically (in Canadian funds) at the time of application.
$75 – Canadian citizens/permanent residents
$100 – International students

2. A complete transcript of all relevant academic records, including current mid-year examination results and/or a description of activities since completing academic studies if not currently studying;

College/University transfer students must also provide:

1. A letter outlining their reasons for transferring to Bishop's University;
2. An "*Évaluation comparative des études effectuées hors du Québec*" if college/university studies were undertaken outside of North American and the applicant is seeking transfer credit or 2nd Bachelor degree status.

International students must also provide:

1. Proof of English competency:
   a. TOEFL – minimum score of 580 (paper-based); 237 (computer-based); 90 (Internet-based)
   b. MELAB – minimum score of 85
   c. IELTS – minimum score of 6.5
   d. Cambridge Certificate of Proficiency in English (CPE) – minimum score of C
   e. Cambridge Certificate of Advanced English (CAE) – minimum score of B

   Exception: applicants to the Intensive Certificate in English as a Second Language must provide proof of English competency, but results will be assessed on an individual basis.
2. SAT or ACT scores (U.S. high school applicants only).

Mature Applicants must also provide:

1. CV – outlining all activities since last full-time study;
2. Letter of intent – outlining motivation for pursuing post-secondary studies, reasons for choosing the desired program and plan for ensuring academic success.

Application Deadlines

Electronic applications must be submitted prior to the following dates each year.

February 1	Fall semester entry:	-Applicants to the Bachelor of Education only
March 31	Fall semester entry:	-High School and CEGEP
May 1	Fall semester entry:	-College/University transfer and mature applicants
November 1	Winter semester entry:	All applicants

Late applications are not considered except under exceptional circumstances.

Different deadlines apply to former students seeking readmission to the University after having withdrawn or interrupted their studies. See the Admissions Policies section for details.

ADMISSIONS POLICIES

General

1. Decisions on admissibility, advanced standing and re-admissibility of applicants to undergraduate programs are governed by the admissions policy determined by the Senate of Bishop's University. This policy is administered by the Divisional Deans and the Admissions Manager. Decisions made by the Divisional Deans concerning admission to the University are not appealable.
2. Evaluation of a student's eligibility for admission to the University is based primarily on the student's performance in the most recent year of academic study, although other factors and previous academic performance will be taken into consideration where appropriate.
3. Students withholding, misrepresenting or supplying incomplete information concerning their previous academic performance or standing may be required to withdraw from the University should that information change the conditions on which their admission to the University was based.
4. The number of admissions is limited and the University is not bound to accept any or all applicants who may possess the minimum admission requirements.
5. Applicants who have demonstrated academic excellence may be admitted to the University on the basis of criteria other than those listed herein.

6. Formal written notification from the Admissions Manager is the only valid statement of a student's admission status. Opinions expressed by or information provided by individuals are not binding unless confirmed in writing by the Admissions Manager, the appropriate Divisional Dean or the Director of the School of Education.
7. Students may be exempted from an introductory course at the University when they have completed comparable non-university course work elsewhere. No credit will be granted towards their Bishop's degree for the exemption. Any exempted course must be replaced by a Bishop's course of equal credit.

   For specific information on admission requirements for the Bachelor of Education, see Admission — Teacher Education Programs.

CEGEP Applicants

1. The CRC (R-score) is used for admission purposes.

   Note: Students following an IB program at CEGEP will have their CRC adjusted according to an established calculation in acknowledgement of the rigor of this program.
2. Students admitted on the basis of a completed Collegial Diploma (D.E.C.) are normally granted 30 credits of advanced standing, reducing a 120-credit requirement to 90 credits (3 years plus any applicable missing pre-requisites).
3. Admission is provisional, pending successful completion of the D.E.C. (Collegial Diploma), before a student enters the University. Students with an incomplete D.E.C. are not eligible for admission.

   Exception: Individual applicants with acceptable academic performance but without the D.E.C. may be admissible with one CEGEP course missing, on receipt of a written explanation (with supporting documentation as required) of the reason(s) the D.E.C. is not completed. If admitted, these students must complete the remaining requirements for their D.E.C. within 12 months of their first registration at Bishop's.

High School Applicants

Canadian High School Applicants

1. Admission average is calculated on academic courses only, including any required program pre-requisites. Physical Education results are not included except in the case of Ontario high school courses coded U or M.

   Program Prerequisites (Grade 12 Academic Level)

All Programs:	English
Business Administration:	Mathematics
Natural Sciences:	Mathematics, two sciences
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the Grade 12 Diploma.
4. Students are eligible to receive advanced credit for most Advanced Placement (AP) examinations completed with a grade of 4 or better and for most IB Higher Level courses completed with a grade of 5 or better: please contact the Admissions Office for details.

U.S. High School Applicants

1. The Grade 12 GPA and SAT/ACT scores are both used for admissions purposes.

   Minimum recommended SAT score (combined – Math, Critical Reading, Writing): 1650

   Minimum recommended ACT score (composite): 23

   Note: Applicants not meeting these minimum criteria should submit a letter of explanation, and such requests for admission will be considered on an individual basis.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the Grade 12 Diploma.
4. Students are eligible to receive advanced credit for most Advanced Placement (AP) examinations completed with a grade of 4 or better and for most IB Higher Level courses completed with a grade of 5 or better: please contact the Admissions Office for details.

International Baccalaureate Applicants

Applicants from IB Curriculum Schools

1. The Diploma score (or anticipated Diploma score if studies are not yet complete) is used for admission purposes.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the Diploma.
4. Students with a completed Diploma score of 28 or higher may receive 30 credits (1 year) of advanced standing.

Applicants from Dual Curriculum Schools

1. Candidates from secondary schools that offer a recognized "regular" high school curriculum in addition to the IB program are considered based on the profile that is more advantageous to them.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the IB Diploma or the regular Grade 12 Diploma.
4. Students with a completed Diploma score of 28 or higher may receive 30 credits (1 year) of advanced standing.
5. Those completing a regular Grade 12 Diploma may receive advanced standing credit for individual Higher Level IB courses completed with a grade of 5 or better.

Baccalauréat Français Applicants

1. Lycée grades from the Terminale of a Baccalauréat général program are used for admission purposes. Requests for admission from students completing a Baccalauréat professional or a Baccalauréat technologique will be considered on an individual basis.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the Terminale.

4. Students with a completed Baccalauréat Français score of 12/20 or higher and mention *assez bien* may receive 30 credits (1 year) of advanced standing.

A-Level Applicants

1. Grades on completed GCSE examinations and anticipated grades on A-Level examinations are used for admission purposes.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the required A-Level examinations.
4. Advanced standing credit for A-Level examinations may be granted if the grade is C or better.

Caribbean Examinations Council CAPE Diploma Applicants

1. Anticipated grades on CAPE subjects are used for admission purposes.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the CAPE Diploma.
4. Advanced standing credit for CAPE examinations may be granted if the grade is III or better.

International Secondary School Applicants

1. Applications are considered on an individual basis.
2. Admission would be to a 120-credit (4-year) program.
3. Admission is provisional, pending successful completion of the appropriate secondary school credential.

College/University Transfer Applicants

1. Applicants who have completed more than one semester at another college or university will be evaluated as transfers from that college or university. Transfer students must normally:
   a) be eligible to return to the institution they have been attending and
   b) fulfill the specific academic admission requirements of the program to which they are applying at Bishop's.
2. Admission would be to a
   a) 120-credit (4-year) program with 30 credits (1 year) of advanced standing (minus any applicable pre-requisites) for those who completed a D.E.C. at a Quebec CEGEP prior to entering college or university.
   b) 120-credit (4year) program for those who completed a Canadian high school, U.S. high school, or international secondary school program prior to entering college or university.
3. Transfer students from colleges and universities may be eligible for advanced credit granted at the discretion of the appropriate Departmental Chairperson on presentation of official transcripts and course descriptions for evaluation. Transfer credit is awarded subject to the regulations governing credit for studies completed elsewhere. Any advanced credit granted is subject to further review should the student change programs. (See Credit for Studies Completed Elsewhere).
4. Canadian citizens/permanent residents who have completed college or university studies outside North America are encouraged to obtain an *"Evaluation comparative des études effectuées hors du Québec"* from the Québec Ministry of Immigration.

Second Bachelor Degree Applicants

1. Persons holding a Bachelor's degree from a North American institution will be considered for admission to a program leading to a second Bachelor's degree. Admission would be to a minimum one-year, 30-credit program plus any additional credits required to complete the selected program. (See Regulation for Bachelor's Degrees).
2. Persons who have completed studies outside North America and wish to be considered for second degree admission must obtain an "Evaluation comparative des études effectuées hors du Québec" from the Quebec Ministry of Immigration. No second degree candidate status will be awarded without the Attestation.

Mature Student Applicants

1. Admission may be granted to certain applicants who do not satisfy the usual academic requirements of the University.
2. Mature student applicants must:
   a) be 21 years of age or older by September 1 for the Fall Semester or January 1 for the Winter Semester.
   b) normally not have registered for full-time studies at CEGEP (Quebec students) or high school (non-Quebec students) or a college or university for at least 24 months;
   c) satisfy the University that they have the potential to be successful in undergraduate courses through the successful completion of at least three university-level courses in one semester on a part-time basis and/or the evaluation of previously completed studies.
3. Meeting the above criteria does not guarantee admission to the University. Admission decisions are made on an individual basis taking into account an applicant's global profile.
4. Admission would be to 120-credit (4-year) program with up to 30 credits (1 year) of advanced standing (depending on program prerequisite requirements).

Former Students Seeking to Complete a Degree/Certificate

Degree/certificate candidates who have formally withdrawn from the University or who have, for any reason, allowed twelve months or more to elapse without earning any credits at Bishop's University must apply for readmission to the University in respect of the following deadlines:

July 1	Fall semester readmission
November 1	Winter semester readmission
March 1	Spring/Summer semester readmission

Students in this position should contact the Admissions Office in advance of the appropriate deadline to determine the correct procedure. If permitted to resume their studies, they will be required to adhere to the calendar regulations in effect at the time the degree program is resumed. See the Interrupted Studies section for more detailed information.

Part-time General Interest Applicants

1. Those who wish to pursue fewer than 12 credits per semester out of general interest or as audit students may apply to the University as Special Undergraduate General Interest (SPU) students through the Continuing Education Office in respect of published deadlines.

   Note: Audit courses are charged fees in the same manner as credit courses.
2. Any student who has applied and been refused admission to a degree program may not register as a part-time general interest student without the permission of the appropriate Divisional Dean.
3. Part-time general interest students must:
   a) be a resident of the Eastern Townships,
   b) be a minimum of 19 years of age on the date of registration for the semester (except for applicants to the English Language Summer School, who may be 18 years of age).
4. The academic progress of all part-time students will be reviewed by the Admissions Office prior to acceptance of their registration in a semester (See Maintenance of Good Academic Standing, Probation, and Must Withdraw Status).
5. Part-time General Interest students may make application for admission to a degree program by following the procedures and respecting the deadlines outlined in the Admissions Applying to Bishop's University section of this calendar. Students who wish to be considered for admission to a degree program must normally satisfy the formal admission requirements of the University as specified for degree studies.
6. Part-time General Interest students who have not fulfilled the requirements for admission to a degree program before commencing general interest studies may be evaluated for degree admission based on their performance.
   a) A minimum of three courses (9 credits, not including full-year courses) successfully completed in one semester with a minimum average of 65% is normally required for successful application to a program. A 65% average does not guarantee admission and individual departments may have additional requirements.
   b) Applicants not meeting this standard will be evaluated on an individual basis.
7. Admission would be to a:
   a) 120-credit (4 year) program with up to 30 credits (1 year) of advanced standing (depending on any applicable prerequisite courses) for those who completed a D.E.C. at a Quebec CEGEP prior to commencing general interest studes.
   b) 120-credit (4 year) program for those who completed a Canadian high school, U.S. high school, or international secondary school program prior to commencing general interest studies.
   c) 120-credit (4 year) program with up to 30 credits (1 year) of advanced standing (depending on any applicable prerequisite courses) for those who are identified as mature students.
8. Part-time General Interest students who do not register at the University for 12 months or more must submit a new application to the University through the Continuing Education Office in respect of published deadlines.

ADMISSION – TEACHER EDUCATION PROGRAMS

Bishop's University's Teacher Education program offers two Bachelor of Education degrees:

a) Secondary Teacher Education

b) Elementary Teacher Education — Educational Studies

Both programs consist of two distinct parts:

Step One – a B.A. in Educational Studies (elementary) or a B.A. or B.Sc. with a Double Major in Education and a teaching discipline (secondary);

Step Two – the Bachelor of Education, which is entered following the completion of the B.A. in Educational Studies (elementary), or the B.A. or B.Sc. with the Double Major (secondary). This is a one-year, 36-credit program. Acceptance to Step Two is not automatic. Students are admitted according to criteria established by the School of Education. Successful completion of the Bachelor of Education allows the School of Education to recommend students for certification to the Ministry of Education.

Admission to Step One

Students making application to the programs in Education must fulfill the normal entrance requirements of the University and follow the same application procedure outlined in the "Applying to Bishop's University" section of this calendar. Candidates already holding an undergraduate degree in a discipline other than Education are eligible for consideration for admission to the School of Education. Such candidates would be considered as Second Degree applicants for admission to the B.A. in Educational Studies (elementary) or the B.A. or B.Sc. with the Double Major (secondary). Minimum course requirements would be determined by the Divisional Dean. Such candidates would be evaluated for admission on the basis of:

a) Academic record

b) Suitability for the profession

A personal interview is conducted at the School of Education where evidence of good communication, problem solving and organizational skills, the ability to work as a member of a team, and strong self-evaluation skills should be demonstrated.

Important: Admission to Step One of the program does not guarantee admission to Step Two.

Admission to Step Two

1. Students wishing information on making application are referred to the School of Education for program information.
2. Application must be made online at *www.gobishops.ca* respecting the February 1 deadline.
3. Completed applications will be forwarded to the School of Education for evaluation.

4. The Selection Committee will use the following criteria for selecting candidates for the B.Ed.:
   a) Academic record – applicants must have a cumulative average of 70% in their first degree.
   b) All courses in the first degree and all practica must be successfully completed.
   c) Ethical / professional behaviour – candidates must have met the School of Education's standards for ethical and professional behaviour.

   Note: The Selection Committee may waive certain admission criteria at its discretion.
5. Decisions by the Selection Committee regarding admission to the Bachelor of Education program are binding.

Admission to – Master of Arts in Education, Master of Education

1. Students wishing information on making application are referred to the School of Education for program information.
2. The deadline for receipt of applications is May 1 for consideration for the Fall semester and November 1 for the Winter semester. Applications must be completed online at www.gobishops.ca and all documentation should be submitted to the Admissions Office.
3. Completed applications will be forwarded to the Admissions Committee of the School of Education for evaluation. This committee will meet regularly throughout the year to consider applications, as soon as possible following the application deadlines.
4. Admission criteria:

   A minimum grade of 75% in undergraduate or previous graduate studies is required. Evaluation procedures will also include an interview, when possible. See additional requirements in the School of Education section of this Calendar.
5. The School of Education will report to the Vice-Principal the decisions on admission.
6. Only a limited number of students can be admitted to each program each year.
7. Students wishing to complete courses in the School of Education without being admitted to the M.Ed./M.A. may be classified as Special Graduate (SPG) students in Education. Such students may complete up to 9 graduate-level Education credits. Admission to graduate courses does not in itself imply candidacy for a graduate degree.

NOTICE OF ADMISSION AND RESPONSE DEADLINES

1. When applicable, admission is conditional upon an applicant's obtaining the final grade levels specified in their offer of admission.
2. Applicants who receive an offer of admission from Bishop's must confirm acceptance of such offer online at *www.gobishops.ca* by the date indicated in the letter of admission. A confirmation fee is collected electronically as part of this step.
3. Application for residence accommodation or payment of residence deposit(s) do not signify acceptance of an offer of admission.

RESIDENCE

1. Information from the Office of Residence and Conference Services concerning residence accommodation will be enclosed with the offer of admission if applicable.
2. All activities relating to residence accommodation (application deposit(s), room assignments) are administered by the Office of Residence and Conference Services.
3. Decisions of the Admissions Manager or the appropriate Divisional Dean concerning a student's eligibility for admission to the University are not affected by an applicant's residence situation.

REGISTRATION

1. Students admitted to degree and certificate programs will be sent detailed registration instructions for the Fall and Winter and Spring/Summer semesters.
2. Part-time general interest students will receive registration instructions through the Continuing Education Office.
3. Receipt of registration instructions does not change academic decisions which may have been made or which will be made concerning an individual's eligibility to attend Bishop's University. Receipt of registration instructions therefore does not represent permission to register.
4. Registrations are accepted on a provisional basis until verification can be made that the registration complies with any restrictions required by the student's academic or financial standing. If there is a problem, the student will be informed as soon as possible following their registration.

2014–2015 Fees

All students are required to pay their School Fees in full before the start of each semester.
All amounts are listed in Canadian funds.

The payment deadlines are as follows:
August 15 for the Fall Semester
December 15 for the Winter Semester
The University may make changes to this Calendar, including the fees, without notice as advised by the Quebec government and /or as circumstances warrant.

SCHOOL FEES

(Check our Website for updated fees)

TUITION FEES:

Canadian fees:	Tuition Fees for *Quebec residents* (1)	$75.77 per credit
	Tuition Fees for *Out-of-province residents* (2)	$221.06 per credit
International fees:	Science, Mathematics, Computer Science, Drama, Music, Fine Art, Business	$570.91 per credit
	All other disciplines (2)	$511.26 per credit

COMPULSORY FEES: *(per Fall and Winter Semester)*

Registration fee (Full-time 9 credits or more)	$51.00
Registration fee (Part-time 8 credits or less)	$25.40
Student Services	$27.20 per credit to a maximum of 15 credits
Student Fees *(listed below)* (9 credits or more)	$105.10

SRC Activity fee	$43.20
SRC Quad yearbook	$9.15
Campus Newspaper	$7.65
Refugee Sponsorship	$2.55
Library Contribution	$40.00
Environmental Levy	$2.55
Total Student Fee	$105.10

Copyright fees	$0.85 / credit
Technology fee	$1.25 / credit

OTHER FEES: *(new students only)*

English Writing Proficiency Test (EWP)	$32.70
Students' Representative Council (SRC) Orientation Fee	$76.50
Winter Orientation Fee	$25.50

(1) Regulations imposed by the Quebec Ministry of Education oblige students to provide proof of Quebec residency at the time of registration in order to be charged the Quebec tuition rate. Students who fail to provide the required proof must pay additional fees as prescribed by the Ministry. Students **born in Quebec** must provide a copy of their birth certificate to be classified as Quebec residents. Students **born outside Quebec** must meet specific criteria and submit proper documents to be recognized as Quebec residents. For information visit:
http://www.ubishops.ca/fileadmin/bishops_documents/school_fees/files/2007-07-07_formulaire-anglais_srq_universite.pdf.

(2) Out-of-Province Students enrolled in the French Honors pay the Quebec tuition fees starting the second year of their program provided they meet the academic requirements and enroll in a minimum of two or three French courses per semester. Canadian students and International students enrolled in French courses in other disciplines can pay Quebec tuition fees for the French courses only. Students holding French citizenship pay Quebec tuition fees.

Example of 2014–2015* Tuition and Compulsory Fees (15 credits):
*(based on 15 credits per semester and not including other compulsory or incidental fees)

***Fees are subject to change.**	**Tuition**		**Compulsory Fees**		**Total per Semester**	**Total Fall & Winter**
Canadian fees:						
Quebec resident	$1,136.55	+	$595.60	=	$1,732.15	$3,464.30
Out-of-province	$3,315.90	+	$595.60	=	$3,911.50	$7,823.00
International fees:						
Science, Mathematics, Computer Science, Drama, Music, Fine Arts, Business	$8,563.65	+	$595.60	=	$9,159.25	$18,318.50
All other disciplines	$7,668.90	+	$595.60	=	$8,264.50	$16,529.00

Payment of Fees

School Fees must be paid in full before the start of each semester. The due dates are as follows:

Fall Semester	**August 15**
Winter Semester	**December 15**

A late payment fee of $65 will apply for all payments made after Aug. 15 for the Fall and Dec. 15 for the Winter. Delaying payment may also result in limited course availability. Students with outstanding fees and balances are charged interest on their outstanding balance at the end of each month at a rate of 15% per annum (1.25% per month). *Failure to pay outstanding balances of tuition, residence, or any amount due to Bishop's University will result in the withholding of transcripts and diplomas, the suspension of re-enrollment or other measures.*

Payment of fees should be made based on a 15-credit full load or according to the credits the student will take. If students register in extra courses or labs, they can pay the extra fees up until the Add/Drop deadline.

Methods of Payment

Payments may be made by cheque (Cdn or US Funds), with on-line banking (BMO, Desjardins, CIBC, National Bank, RBC, Scotia Bank or TD) or by debit card or cash at our office. International students can pay using ScholarFX to make their payment transfer.

Refunds

1. Any student who withdraws in writing from the University before the deadline date for dropping and adding courses is entitled to 100% refund of fees less a withdrawal fee of $75. After this date there will be no refund.
2. Should a student leave the University due to illness and not return during the semester, a refund of 50% of the pro-rated tuition fees **only** will be allowed, provided that a doctor's certificate is attached to the withdrawal form and forwarded to the Records Office. Withdrawal forms may be obtained through the Records Office.

Compulsory Fees

The Registration fee covers services for transcripts, letters of permission, attestations, program changes and Add/Drop course processing. The Student Services fee provides free access to the following general services on campus: Sports Centre, Health Clinic, Counseling Services, Career and Employment Office, Disability Office, Campus Ministry and Student Affairs. The Student Services fee also supports Campus Security and the Creative Arts. The Student Fees provide for full membership and voting privileges in the Students' Representative Council (SRC), publications, student rates for athletic events, etc. First-year students starting in the Fall Semester are charged a $76.50 fee ($25.50 in winter) to cover orientation week activities. Fees do not cover insurance on personal belongings. Technology fee helps to maintain and improve the technology environment which supports a student's learning experience at Bishop's.

Exchange Students

Exchange students are required to pay for their residence, meals, books, supplies, medical insurance and any specific course related fees.

Medical Insurance

Quebec Immigration authorities require that all international students studying in the province of Quebec subscribe to a health insurance plan provided by Bishop's University for themselves and their dependents coming with them to Quebec. Please advise the Business Office if you need additional coverage for your family once you arrive.

International students, including Exchange students, must subscribe to the Health Insurance plan offered through the University. Student accounts will be charged insurance each semester. Please refer to the insurance plan details for information and limitations of coverage: **www.ubishops.ca/school-fees/international-students/home.html**. Students covered by private health insurance are not exempt from the University plan and must enroll.

The following countries have reciprocal medical coverage with the province of Quebec: France, Denmark, Sweden, Norway, Finland, Luxemburg and Portugal. To benefit from an exemption from the University plan, students from those countries listed must apply to the Régie d'assurance maladie du Québec (RAMQ) upon arrival in Quebec and present a valid Quebec Medicare card to the Business Office. Please refer to: *www.ubishops.ca/academic-programs/international-exchange/international-students/health-insurance.html* for more information. All exchange students will be charged the insurance premium while registered. A refund may be eligible when their RAMQ card and letter are shown at the Business Office as soon as they are received.

Residence Fees *(subject to change)*

The room-only portion of the residence fees during the academic year varies from $425 per month for a double room to $615 per month for a single room with semi-private bathroom. All residents must select a meal plan. Meal plan rates vary from $485 to $497.50 per month. (Residence costs may be paid over eight monthly installments). There is an additional charge of $50 per semester for residence activities. Further details are available in the Residence Handbook (www.ubishops.ca/residence) or from the Residence and Conference Services Office (residence@ubishops.ca).

Residence accommodation is not provided during the Christmas break. Meals are provided during the periods specified in the Residence Handbook (www.ubishops.ca)

Residents may occupy their rooms on the official opening day of Residence each semester, and must vacate them no later than noon on the day following completion of their last examination each semester.

Students planning to arrive on campus after the official opening date must notify Residence and Conference Services of this in writing in order to retain their room allocation.

Student Aid

Bishop's University, through its Foundation, offers scholarships, awards and bursaries. You can visit our website or consult the Scholarships, Loans, Bursaries and Awards section of this Calendar. Student aid is also available through government loans. Quebec residents apply for Quebec Loans & Bursaries and Canadian residents apply for government loans with their own Ministry of Education. For more information visit *www.canlearn.ca.*

Other Miscellaneous Fees

Application Fee *(non-refundable)*.....$75 (Canadian students)
..... $100 (International students)
Art Course – Print Making (per semester).....$61
Art Course – Sculpture (per semester).....$30.50
BUCS (B.B.A., Bus.Maj.) *(per semester)*.....$10.00
Confirmation fee deposit *(new students only)*.....$100
Confirmation fee penalty.....$50
Co-operative Education Program (Business).....$200
Co-operative Education Program (Computer Science).....$200
Education speaker's fund *(Fall only)*.....$10
Field trips and conferences ..... at cost
Graduation application fee.....$70
Late payment fee *(full-time)*.....$65
Late registration fee *(full-time)* $100
Late registration fee *(part-time)*.....$10
Medical Insurance for International Students
(12-month coverage) $1008
Music: Practicum surcharge
MUS070-071 *(per semester)*.....$443
MUS170-270-370/171-271-371 *(per semester)*.....$443
MUS172-272-372/173-273-373 *(per semester)*.....$432
MUS475 *(per semester)* $469
MUS372 *(per semester)* $339
NSF cheque fee.....$25
Practice Teaching surcharge
EDU215/216 (per semester).....$47
EDU328/329 (per semester).....$209
EDU428/429 *(per semester)* $230
Replacement of Identification card $15
Re-reading of an examination by external evaluators.....$55
Re-reading of thesis $55
Student Fees SRC *(Spring/Summer session)* $16.80
Student Fees SRC Fall and Winter (8 credits and less) $28.05
Student Services *(Spring session)*.....$36
Supplemental examinations
— each paper *(non-refundable)* $35
Supplemental examinations written off-campus
— each paper *(non-refundable)* $75
Tax receipts – each duplicate copy $5
Thesis Pending M.Sc. *(per semester)* $350
Thesis Pending (not M.Sc.) *(per semester)*.....$75.77
Transcripts.....$5
Additional copies of transcripts $5
Withdrawal fee from the University *(full-time)* $75

For any information regarding the above, you may contact the Business Office at:

Tel.: 819-822-9600 ext. 2655
Fax: 819-822-9661
E-mail: businessoffice@ubishops.ca
Website: www.ubishops.ca

University Regulations

Academic Integrity

1. Preamble

1.1 Bishop's University is committed to excellence in scholarship. All members of the University community have a responsibility to ensure that the highest standards of integrity in scholarly research are understood and practiced.

1.2 The University takes a serious view of any form of academic dishonesty, such as plagiarism; submission of work for which credit has already been received; cheating; impersonating another student; falsification or fabrication of data; acquisition of confidential materials, e.g. examination papers; misrepresentation of facts; altering transcripts or other official documents.

2. Plagiarism

2.1 Plagiarism is a kind of academic dishonesty in which an individual uses the work of another without appropriate acknowledgement. Plagiarism includes but is not limited to the following practices:

- Using another's work without acknowledgement
- Copying material without quotation marks
- Paraphrasing too closely the exact words of the originating author
- Submitting as one's own work written in whole or in part by another individual.

2.2 The following practices related to plagiarism are also prohibited:

- Helping another student plagiarize
- Submitting in whole or in part work for which the student has received credit in another course, unless the permission of the instructor has been obtained
- Submitting any statement of fact known to be false or providing a fabricated reference to a source.

3. Procedure in Alleged Cases of Academic Misconduct:

3.1 The instructor will meet with the student and reach a decision concerning the matter. In the event that a sanction beyond a warning is required, the Dean will be informed.

3.2 In a repeated or particularly serious case, or if the student disputes the decision of the instructor, the Dean will be informed. If necessary, the Dean will meet with the student and the instructor. Another member of the University community may accompany the student. The Dean will make the final decision in the case, including the assignment of a penalty, if any. If the decision is that the student is guilty of academic misconduct, the Dean will inform the student in writing and send a copy of this letter to the instructor and to the Registrar. The student may appeal the decision to the Academic Review Committee. See Academic Reviews and Appeals, below.

4. Penalties

The normal penalty for a first offence is a zero grade in the component of the course in which the dishonesty occurred. However, in a case of particular seriousness, or in the case of a repeated offence, penalties may include a zero grade in the course, a notation placed on the student's academic transcript, suspension for one semester or longer, or expulsion from the University. A penalty of suspension or expulsion will automatically include a notation on the student's transcript to that effect.

5. Transcript Note

If a notation on the transcript is appropriate, the notation will say "Disciplined (or "suspended", or "expelled") for academic misconduct."

A student who has been disciplined or suspended and received such a notation on their transcript may, in the last year before graduation petition the Academic Standing Committee in writing to have the notation removed from their transcript. The decision to remove would be based primarily on evidence of exemplary academic conduct by the student since the offense was committed, or since their return to the University; it would not be granted automatically.

Academic Reviews and Appeals

Academic Review

A student's academic progress or standing is evaluated in conformity with Departmental, Divisional, School or Senate regulations governing courses, programs, examinations and degrees.

If a student has an issue which pertains to a specific course, the student shall first discuss the issue with the course instructor. This must be done as soon as possible, and no later than one month after the beginning of the next regular semester following the academic decision.

(NB: Students may seek the advice of the University Ombudsperson, at this stage or any later stage, in the review process. The ombudsperson works as a trusted intermediary to review complaints of all members of the university who believe they have suffered an injustice.)

Unless prohibited by a specific committee policy students may request a review of any academic decision or a re-evaluation of any course component(s) which calls into question their academic integrity and/or is worth at least 25% of the final grade of a course subject to the Academic Review guidelines.

If the issue cannot be directly resolved between the faculty member and the student, the student may take the matter to the Dean of the Division in which the course was offered within 30 days of the initial meeting with the faculty member. If the matter does not concern a specific course, the student must appeal directly to the Dean in charge of the Division or School in which he or she is enrolled.

If the Dean decides that the issue has no merit the student may either accept that decision or appeal to the Academic Review Committee.

If the Dean determines that the issue has merit, he or she will proceed, within two weeks, to seek a resolution informally through discussion with the student, the faculty member and/or

the Chair of the department in question. If the student so chooses, the ombudsperson may be present for any or all discussions. If the issue cannot be thus resolved by the Dean, he or she may impose a solution. In the case of a dispute over a grade, the Dean may authorize the re-evaluation of any course component(s) by an impartial examiner (Fee: $55, reimbursed if the re-evaluation results in a higher mark). In certain situations, the Dean may recommend that the student appeal to the Academic Review Committee. In the case of a re-evaluation of a course component, the grade assigned by the reviewing examiner shall become the official grade for that component and the final course grade adjusted accordingly.

In this context, any decision of a Dean may be appealed to the ARC by the student, given clear grounds for such an appeal.

For cases in which the informal resolution process and the intervention of the Dean is inconclusive or there exists a need for a more formal review of an academic matter, Senate has established two committees, the Academic Review Committee (ARC) and the Academic Appeals Committee (AAC) to deal with the formal review of all academic matters. The University Senate delegates to these Committees the authority to render decisions on all academic matters as well as the authority to implement additional procedures consistent with those set out below.

The function of the Academic Review Committee is to hear complaints against any academic decision taken in the University by a faculty member, a Departmental Chairperson, a Dean or the Vice-Principal, and to adjudicate all infractions of University academic policy referred to it by any member of the University community. The function of the Academic Appeals Committee is to hear appeals against decisions made by the ARC (see below for the specific grounds for appeal). The decision of the AAC is final and binding on all parties.

The Academic Review Committee

The Academic Review Committee (ARC) shall consist of five voting members: two faculty members, who shall be members of Senate and chosen by the Senate Nominating Committee, two students who shall be members of Senate and chosen by the Senate Nominating Committee, and one academic officer of the University, (Dean or Vice-Principal) who shall be named by the Chair of Senate (the Principal). Three alternate members shall also be selected by the Senate Nominating Committee; two students and one faculty member. The ARC shall elect annually a Chairperson whose name will be communicated to the Secretary of Senate.

Note: For eligibility rules concerning members who may sit on the ARC as well as further procedures regarding the Committee quorum, procedures in committee, documents, onus and standard of proof, please refer to Appendix I, below.

(i) The Committee year extends from May 1 through April 30 of the following calendar year. The Committee shall remain constituted for the entire year.

(ii) Faculty members shall serve a term of two years, renewable once, after which they must step down for at least one full year. Student members shall serve a term of one year, renewable once. Senate shall make provisions (through its Nominating Committee) for timely replacement of members whose terms are expiring.

(iii) The Committee is authorized by Senate to select which alternate members will replace regular members who must leave the Committee before the end of their term or who are unavailable during the summer months.

Powers

The Academic Review Committee shall have the following powers:

(i) review any academic decision taken by a faculty member, a Departmental Chairperson, a Dean or the Vice-Principal.

(ii) review any infraction of University academic policy, including all matters governed by Department, Division, School and Senate regulations.

(iii) review any complaint regarding interference with the University's academic operation.

*Note 1: The ARC does **not** have jurisdiction over the following areas: admission to the University, re-admission, probation and academic standing issues (including "must withdraw" decisions) and scholarship decisions. These areas are the purview of the Academic Standing/Admissions Policy (ASAP) Committee.*

Note 2: Before the ARC will accept jurisdiction for decisions concerning grades, there is a separate procedure for the review of marks obtained in final exams and in other components of a course. This procedure must be followed first.

Making a Request to the Committee

The Academic Review Committee will consider a request for review only after:

(i) the receipt by the Committee Chairperson of a written and signed notice of request filed within 30 days of the time that the most recent academic decision concerning the matter in dispute has been communicated in writing to the student. Requests for review must include: a complete specification of the wrong to be corrected, the specific grounds for the request for review and the remedy sought. In the case of a request to review a general policy or regulation, the written, signed notice may be made at any time. In all cases, requests for review of any academic decision must be initiated before the marks deadline of the semester following the completion of the course in question.

(ii) before proceeding with a request for review of any matter, the ARC Chairperson will request a written assurance from the Dean and Ombudsperson that all reasonable efforts have been made to solve the dispute at an earlier level.

(iii) Within seven working days of receipt of the notice of request for review, the Chairperson will acknowledge the same in writing to the complainant(s).

(iv) Within ten working days, the Chairperson shall convene an initial meeting of the ARC and give a five-day notice to all parties of the date of the initial meeting.

Disposition of the Committee Decision

(i) Decisions shall be made by simple vote of the Committee; three positive votes are necessary to carry any decision. The tally of all votes shall be recorded in the minutes.

(ii) During the course of a review, no changes shall be made to any mark or grade in question, nor to any student's current status, nor to his/her eligibility for a given program.

(iii) The Academic Review Committee shall render a decision on a review within 60 calendar days of receipt of the request for review.

(iv) The Chairperson of the Committee will report its decision to the complainant, the defendant, the Chair of Senate (the Principal) and the appropriate Dean within five days of the rendering of the decision.

(v) If the decision is not taken to appeal (see below), the appropriate Dean will be responsible for the implementation of the final decision. At least 30 days will be allowed for the implementation of the decision by the individual University office involved.

Academic Appeals

The Academic Appeals Committee (AAC) shall consist of three members: one faculty member who is not a member of Senate named by Faculty Council, one student who is not a member of Senate named by the SRC, and one Academic Officer of the Senate (Dean or Vice-Principal) named by the Principal. Two alternate members shall also be named, one faculty member and one student. The regulations for the term of office, length of the Committee year, election of the Chairperson, eligibility, extension of term, and replacement of members, shall be the same as those for the ARC (see above).

Where an appeal of the decision of the ARC has been submitted, the Senate shall either:

(i) receive and accept the report of the ARC.

(ii) receive the report of the ARC and refer the case to the AAC.

In both cases debate on Senate's decision must be held in camera and any member of Senate who is a party to the case must excuse him- or herself from the discussion. The content of the debate shall be confidential and Senate shall limit itself to discussion of material contained in the report of the ARC and the request for appeal. Members of Senate who are also members of the ARC shall abstain from voting.

Filing an Appeal

(i) An appeal against a decision of the ARC must be filed with the Chairperson of the AAC within 30 days of the decision rendered by the ARC.

(ii) The appeal may be from either complainant or defendant but in either case shall be written and signed and state specifically the grounds for appeal, the remedy sought and include all of the documents (written and oral) used by the ARC to achieve its decision.

(iii) Unless there is compelling need for further clarity, no new documents will be considered by the ACC that were not before the ARC.

(iv) Before proceeding to hear an appeal, the Chairperson of the AAC will, within seven working days of the request for an appeal, acknowledge the request for appeal, notify both parties and within ten working days convene a meeting of the AAC. Five days notice will be given to both parties of the date of the first meeting of the AAC.

Grounds for Appeal

The Academic Appeals Committee has the power to hear an appeal from a decision of the ARC for the following reasons:

(i) errors of fact in information used by the ARC which could affect the decision rendered,

(ii) new evidence not available to a party at the time the decision of the ARC was made,

(iii) errors of interpretation of any University academic policy or regulation,

(iv) serious procedural error,

(v) action by the ARC beyond its jurisdiction.

Procedures

(i) The regulations with respect to: procedures in Committee, documents, onus and standard of proof set out in Appendix I for the ARC, will apply *mutatis mutandis* for the Academic Appeals Committee.

(ii) The AAC will hear testimony from the Chairperson of the ARC where significant procedural error is alleged as the grounds for appeal.

(iii) The AAC will have access to all recorded testimony, documents and minutes of the ARC.

Decisions

(i) Decisions shall be by simple vote of the Committee; at least two positive votes are necessary to carry any decision. The tally of all votes shall be recorded in the minutes.

(ii) The AAC may decide to return the case to the ARC for further review. Alternatively, it may uphold the decision of the ARC or fashion any other remedy as it sees fit.

(iii) The AAC shall render a decision on the request for appeal within three months of the request for appeal.

(iv) The Chair of the AAC will report its decision to the complainant, the defendant, to the Chair of Senate (the Principal) and to the appropriate Dean(s) within five working days of the rendering of the decision.

(v) The decision of the AAC will be final and binding on all parties.

Appendix I: Rules and Procedures

1. Eligibility

The eligibility of students, faculty members, Deans and the Vice-Principal who sit on either the ARC or on the AAC is restricted as follows:

(i) individual members cannot sit on both Committees,

(ii) no individual member of either committee can serve if they are involved in the case as plaintiff, defendant or witness,

(ii) no individual member can serve on either committee who has been found guilty of an academic offence,

(iv) no individual member can serve on either Committee who is in a position of bias or conflict of interest (financial gain, kinship relation, close personal relationship),

(v) all student members who serve on either Committee must be in good academic standing in their program at the time they are elected to the Committee concerned.

2. Quorum

A quorum shall consist of two student members and two faculty members and one academic officer of the University (or the alternate). Every effort shall be made to assume that a consistent quorum of members follows each case to its conclusion. The Committee is authorised to extend the terms of members for this purpose. The Committee shall elect annually a Chairperson whose name will be communicated to the Secretary of Senate. Senate shall make provision for a Committee secretary who will record the minutes of all meetings. The Secretary shall not participate in the discussions and shall not have a vote.

3. Examples of Matters that Can be Reviewed by the ARC:

(i) all matters of academic integrity after a decision by the appropriate Dean has been rendered,

(ii) program eligibility, program transfer, program requirements,

(iii) requirements for the degree,

(iv) credit for studies elsewhere,

(v) deferred status for exams or course components,

(vi) requests for supplemental exams,

(vii) a mark or a grade in a course, final standing in a course after the procedures for external re-reading of exams or course components have been completed,

(viii) grading practices after a decision by the appropriate Dean has been rendered,

(ix) any infraction of Department, Division or Senate regulations,

(x) any complaint regarding interference with the academic operation of the University.

4. Procedures in Committee

(i) The Committee shall conduct its meetings in camera.

(ii) Both complainant and defendant(s) have the right to be accompanied by a representative of their choice; this representative shall be any full-time member of the University community.

(iii) The University, if it so decides, may appoint a legal advisor to assist the Committee. Such an advisor shall be considered a neutral observer in the proceedings of the Committee and shall not vote.

(iv) Both complainant and defendant have the right to make representation in the manner decided by the Committee.

(v) The parties to the dispute shall be interviewed separately by the Committee in the first instance at which time they may make oral representations and refer to the relevant evidence (see documents below). This procedure does not preclude a face-to-face meeting if all parties agree.

(vi) General minutes shall be taken of the meeting and the testimony of witnesses and of all motions of the Committee. Copies of the minutes will be provided to all parties.

(vii) All oral testimony given by witnesses will be recorded on audio tapes which will be made available to the complainant and the defendant and to which they may respond in writing within five days of receiving a copy of the tape.

(viii) All written and oral testimony, evidence and minutes of the Committee are confidential to the Committee and to the parties involved in the dispute. Deliberations of the Committee are confidential to the Committee.

Each Committee shall establish its own modus operandi, however, the following sequence is a general guideline:

(i) introduction of the complainant, defendant, members of the Committee,

(ii) review of documentation,

(iii) rulings on documentation or further evidence necessary,

(iv) statement by the complainant, questions from members of the Committee,

(v) statement by the defendant, questions from members of the Committee,

(vi) re-calling of the complainant and defendant for clarification of information only by members of the Committee.

5. Documents

(i) Copies of all documents submitted by each party will be made available to members of the Committee, to the complainant and to the defendant one week before the hearing date.

(ii) University records such as transcripts, student files, office correspondence as well as all Departmental, Divisional and Senate regulations are automatically evidence before the Committee.

(iii) All documents provided by either party will become evidence for the Committee unless one party objects on the grounds that such documents are forged or false or made with malicious intent. Such documents may become evidence before the Committee only after the Committee receives written confirmation of their authenticity by the original author. The Committee reserves the right to accept or reject all documents.

(iv) The Committee will request written evidence and testimony from all parties to the dispute as well as from the appropriate Dean and from the Ombudsperson.

(v) The Committee shall reserve the right to invite and receive written and/or oral evidence from any other party, to request and receive any other document it deems may assist in its deliberations and all such evidence shall be made available to the parties in the dispute.

(vi) In the case of new documents brought to the Committee during the hearing, both parties and all members of the Committee will have the right to review such documents before proceeding with the case.

(vii) Following the Committee's final decision in the case, all documents, including the written evidence submitted by the parties to the dispute and the taped oral testimony, will be retrieved by the Chair and, together with the minutes, shall be deposited with the Office of the Vice-Principal and shall be made available to the parties in the dispute.

(viii) The Vice-Principal's assistant will number all documents, arrange them in chronological order and provide for their safe-keeping until such time as a further appeal is sought (see AAC below) or for a period of one year, whichever is applicable.

6. Onus

i) The onus is on the complainant to demonstrate that the ruling or decision in question is inappropriate or unreasonable. The exception shall be in cases of academic dishonesty where the onus is on the faculty member (or the University) to demonstrate that an academic offence has been committed.

ii) In cases regarding the waiving of Departmental, Divisional or Senate regulations, where the grounds for such a request are either medical, compassionate or other extenuating circumstances as decided by the Dean of the Division concerned, the onus is on the complainant to demonstrate that following the particular regulation in question was impossible. In such cases, documents attesting to the status of the student must be provided in a timely manner, must be specific and must demonstrate that such grounds do in fact exist.

7. Standard of Proof

Unlike the standard of proof commonly used in criminal cases and usually known as "proof beyond a reasonable doubt", the standard of proof to be used by the Committee will be the "balance of probabilities" or "preponderance of evidence". By this is meant "more likely than not" in the sense that an unbiased observer, having reviewed all the evidence and having heard all sides of the story, should be able to say: "the fair decision in this case is 'X' more likely than not".

In alleged cases of academic dishonesty or in other cases which call into question the very nature and operation of the University, the balance of probabilities, when used as the standard of proof, needs to be at the higher end of the scale and must be based on clear and compelling evidence.

Ombudsperson

The major role of the Ombudsperson is to receive complaints from members of the University community who believe that they have suffered some form of injustice, particularly of an academic nature. After examining the factual basis of these complaints and determining that all normal avenues of recourse and appeal have been exhausted, the Ombudsperson investigates these complaints and facilitates their solution either using existing procedures, both informal and formal, or by recommending changes to the existing procedures. The Ombuds Office operates independently of all other offices in the University and may make recommendations in specific cases or recommendations pertaining to the changing of any rule, policy, regulation or procedure which he/she deems appropriate. The objectives of these recommendations will be either to solve an individual problem or to improve the overall operation of the University. The Ombudsperson must investigate all sides of a particular problem, must maintain a neutral stance throughout the investigation and must strive to achieve solutions which are as fair and just as possible given the circumstances involved. At the end of an inquiry, the Ombudsperson will explain the nature of the chosen solution to those who initiated the complaint or, where the complaint has been found to be not justified, explain to the individual or groups involved the reasons for not continuing the investigation. From time to time, the Ombudsperson may also act as a mediator between individuals or groups of individuals in the University community who have been unable to resolve a conflict, particularly where no procedure exists for the resolution of such matters.

Please see the University Website for further information and the complete text of the terms of reference for the Ombudsperson.

Selection of Courses

Students are responsible for ensuring that their selection of courses conforms with the general requirements of university programs, the general and academic regulations of the University, and the specific requirements of the specialization of their choice. In planning their annual course choices, students are urged to consult with the appropriate Departmental Chair and Dean.

The programs have been designed to permit the most effective study in a discipline or subject by the majority of students. Nevertheless, changes may be appropriate for particular students because of specific objectives, background, etc. Students who wish to alter their program must consult the Chairperson of the department and the Dean concerned, preferably before registration. It should be noted that constraints are imposed on possible changes in programs by the timetable of courses.

A normal course load is 15 credits per semester. Thus, a 120 credit program can normally be completed in four years of full time study. Students admitted on the basis of the CEGEP *Diplôme d'études collégiales* (D.E.C.) are normally granted 30 credits of advanced credits, reducing a 120 credit requirement to 90 credits or three years of full time study.

Confidentiality of Student Information

In conformity with Article 65 of the Quebec legislation concerning access to public documents and confidentiality of personal information, Bishop's University informs its students that all personal information collected in the course of admission and registration of a student will be kept confidential, except where specific permission is given to release it.

Students are obliged to provide information which is requested by the administrative offices of the University. The University may only request information which is essential to its operation; refusal to provide this information may lead to denial by the University of services to the student.

In signing the application form, all students agree that the information contained in it, and in their student file, may be made available to those administrators charged with management of their academic and financial affairs while they are at Bishop's University. No information will be released to other persons without express permission of the individual concerned, except in circumstances involving the safety and security of the individual or a breach of the law.

Any student may consult his or her file during regular office hours and may request that any errors found in the file be corrected. If necessary, a formal request for correction may be made in writing to the Registrar.

Discipline

Students are expected to conduct themselves in all places and at all times in a manner appropriate to members of a university. Failure to do so may result in disciplinary action. In accepting admission to the University, a student is agreeing to abide by, and be subject to, its regulations. The Charter of Student Rights and Responsibilities provides a framework for such a commitment. The University reserves the right to suspend or dismiss any student for misconduct or for serious infractions of university regulations. Such action will result in the loss of course work for the semester in which the suspension or dismissal is imposed.

Matters of discipline are adjudicated by the Committee on Student Conduct which is chaired alternately by the Dean of Student Affairs and the Director of Residences and Conference Services depending on whether the issue is judged to be primarily residential in nature or of a broader import. The committee comprises, in addition, six students representing both on and off campus constituencies. The Committee on Student Conduct is empowered to take note of and to judge matters of student conduct, excluding academic issues, referred to it by any member of the University. All recommendations are forwarded to the presiding Chairperson for consideration and final decision. Exceptions to this are limited to recommendations for suspension or expulsion from the University which are forwarded directly to the Principal. In addition, a Joint Disciplinary Council composed of a balanced set of delegates from each of the Bishop's and Champlain College communities is mandated to deal with situations which involve students of both institutions.

Policy on Harassment

Living in a university environment entails respect for the welfare and dignity of others. Harassment of any kind is intolerable, and we share the responsibility of promoting a climate of education, support and understanding. The University has developed policies and procedures for dealing with sexual and other forms of harassment. The Committee administering this policy includes representatives of all constituents of the University; the policy document is posted on the Bishop's Website and can also be obtained from the Principal's Office.

Students' Responsibilities

Students are required to abide by reasonable instructions given orally or in writing by any official of the University authorized to secure compliance with regulations, rules, practices and procedures. They should carry proper University identification (student card) at all times and be prepared to show it at the request of any individual acting in an official capacity (such as University security officers, police officers or student residence staff).

Students have a responsibility to attend lectures and laboratories and to perform punctually all academic assignments in accordance with the standards prescribed by the departments concerned and announced by the instructors at the beginning of the year. Failure to fulfil these requirements may lead to debarment from examinations. Protracted absence from the University may involve debarment from courses.

Students are required to return promptly after holidays and are requested not to make travel plans which will interfere with registration or examination schedules.

Professors' Responsibilities

Before the Add/Drop deadline of each semester, teaching staff will provide in writing to students in each of their courses a course outline containing:

1. a list of the required textbooks, readings (or material) to be covered in the course;
2. a general outline of the topics to be covered;
3. a schedule of term assignments and tests;
4. a description of the evaluation procedures to be used.

Academic staff are required to establish and post office hours during which they are available for individual consultation with students.

The document "Policies regarding responsibilities of academic staff to students" is posted on the Bishop's Website and is also available from the Registrar's Office.

Students' Official Address

In order to ensure timely and efficient communication with students, the University will use the following as the "official address" for students:

a) during the regular (September through April) academic year, the student's on-campus mailbox;

b) from May through August, the student's home address on file in the Records Office, unless the student has provided a temporary address for this period by informing the Records Office directly;

c) at any time, the Bishop's University e-mail address will be deemed to be the "official" one for communications from the University to students, and students are responsible for ensuring that they are able to receive these communications;

d) students are responsible for checking their campus mailbox and Bishop's e-mail at least once each week during the academic semester while in attendance at the University.

REGULATIONS FOR BACHELOR'S DEGREES

General Academic Requirements Bachelor of Arts, Bachelor of Sciences, Bachelor of Business Administration:

A degree may be earned by means of one of the following kinds of programs selected from among those offered in this Calendar:

1. Honours in an academic discipline. Honours programs entail a very high degree of concentration in a subject and require a high standard of academic performance. These programs are especially suitable for those who plan to proceed to graduate study. A Major or Minor in a second discipline may be combined with Honours.
2. A Major in an academic discipline or interdisciplinary subject. Major programs require less concentration in a subject than Honours programs and provide greater scope in the selection of optional subjects. A Major in one discipline may be

combined with a Minor in a second discipline or with a second Major where the requirements of both can be satisfied.

3. Honours or Major in a group of disciplines encompassed by a Division of the University (e.g. Natural Sciences). This type of program is designed to permit maximum flexibility of study within a Division while ensuring, at the same time, a useful level of concentration in one or two disciplines. A Divisional Major may be combined with a Minor, or in some cases a Major, in a discipline outside of that Division.
4. Minors in two academic disciplines. This type of program involves the least concentration in any one subject. Degrees consisting of double or triple Minors will be granted as Bachelor of Arts degrees. To graduate with a double or triple Minor, students must normally complete all the requirements for each Minor program as stipulated in the Academic Calendar. However, in cases where there are common course requirements, for a double Minor, a maximum of 6 credits may be double-counted (i.e. applied to both Minors); for a triple Minor a maximum of 9 credits may be double-counted (i.e. applied jointly to the three Minors).

In each case, courses must be completed in addition to those required by the selected Honours, Major or Minor combination in order to fill the minimum credit requirement indicated in a letter of admission or in a letter indicating a credit requirement change necessitated by a program change.

Successful completion of a program is determined by the department and the Dean, in accordance with the Academic Calendar regulations in effect either when the student enters a program or in the student's graduating year.

Students with a failing cumulative average (i.e. below 50%) will not be eligible to graduate from the University.

Additional Requirements

1. All students must satisfy the English Writing Proficiency requirement in order to be eligible to graduate.
2. The credit requirement indicated in a letter of admission, or in a letter indicating a credit requirement change necessitated by a program change, is the minimum requirement. A completed program must include all required courses/labs of the selected Honours/Major/Minor program(s) as described in the relevant Academic Calendar, which may exceed the minimum.
3. A student may not be required to follow more than 12 course credits, excluding lab credits, in any one discipline during the first 30-credit program year. This will permit the choice of a Major or Honours program from at least two fields of study.
4. 50% of degree credits (i.e. a minimum of 60 credits) must be obtained from Bishop's University. A recognized student exchange counts as credits completed at Bishop's University.
5. Following admission to Bishop's University, a student may normally complete no more than two semesters or attempt (pass or fail) more than 30 credits, not including laboratory credits, at other universities during the completion of a Bishop's degree.
6. At least 21 of the final 30 credits of a Bishop's degree program must be completed at Bishop's, leaving a maximum of 9 credits which may be completed elsewhere on a letter of permission. Exception: students participating in a recognized Bishop's Exchange program.

   Under exceptional circumstances, a total of 12 credits could be taken elsewhere on a letter of permission approved by the Academic Standing Committee, through the appropriate Dean.

General Academic Requirements Bachelor of Education

1. A B.Ed. degree may be earned by the successful completion of the approved courses and the practica required by the degree program.
2. Following admission to the B.Ed. program, all course requirements for the program must be completed at Bishop's.
3. Upon successful completion of the Bachelor of Education, graduates are recommended to the Ministère de l'Éducation du Loisir et du Sport of the province of Quebec for the appropriate "brevet d'enseignement".

Second Bachelor Degrees

Students who hold a degree may apply to Bishop's University to obtain a second undergraduate degree in a different discipline or to convert a degree in a discipline to an Honours degree in the same discipline. In all cases second degree candidates are required to:

- Complete a minimum of 30 additional credits at Bishop's University (courses taken as part of the first degree cannot be used to satisfy this requirement). Completion of courses elsewhere on a letter of permission is normally not permitted.
- Fulfill the requirements of the new Honours/Major/Minor concentration programs; divisional and elective requirements are waived.
- Complete at least one half of the chosen Honours/Major/Minor concentration course requirements at Bishop's University within the second degree.
- Fulfill the EWP requirement if necessary.

Conditions for second bachelor's degrees are not eligible for scholarship consideration in the Bishop's University Scholarship program.

Exempted: Bachelor of Education candidates.

Selection of Courses

1. Students should plan their programs each semester so as to include courses which are prerequisites for courses to be taken in subsequent semesters/years. Some courses are given only in alternate years. Certain combinations of courses may be rendered impossible by the arrangement of the timetable.
2. A course for which credit is earned in any semester may be repeated once to improve the grade. No additional credit will be awarded. The initial course registration and grade will remain on the student's academic transcript, with the notation "RNC — repeat no credit" appearing beside it. The grade received in the second registration for the course will be used in the calculation of the student's average (including cumulative average) and credits awarded, regardless of whether it is the higher or lower grade. Repeated courses will not retroactively affect academic standing.

3. A student who has failed a course twice will be allowed to re-register for that course only with the instructor's permission, after a review of the student's program by the department concerned. Appeals to the decision will be processed through the regular appeals procedure. The present double failure rule as it applies to courses offered by the Williams School of Business and the Economics Department remains in force. (See Programs and Courses, Business Administration.)
4. Students who contemplate entering graduate school upon graduation should consult with the graduate school in order to ensure that they are meeting the prerequisites of the graduate program they propose to enter.

Credit for Studies Completed Elsewhere

Transfer Students:

Bachelor of Education

Students may be eligible for advanced credits for the Major in Education for courses which meet the teachable subject course requirements and/or for courses which have educational content and which meet program requirements.

Bachelor of Arts, Science, Business Administration

1. Students admitted to Bishop's following completion of a minimum of one semester at another university or college may be eligible for advanced credit granted at the discretion of the appropriate Divisional Dean. The student must present complete official transcripts and course descriptions for evaluation. Transfer credit is awarded subject to the regulations governing credit for studies completed elsewhere and subject to further review should the student change programs.
2. Articulation agreements exist such that students having completed specific CAAT (Ontario) programs may be eligible for advance credit against a four-year Bishop's program, granted at the discretion of the appropriate Divisional Dean and in accordance with the signed agreement. Please consult the Admissions Office for detailed information. Although exemption may be possible, no credit will be awarded for incomplete programs.
3. College or University transfer students who have completed studies outside North America must obtain an "Attestation des équivalences" for those studies from the Quebec Ministry of Immigration. No evaluation will be made without the Attestation.
4. At least one half of the courses required to satisfy the requirements of the chosen Honours/Major/Minor program(s) must be completed at Bishop's University.
5. 50% of degree credits must be obtained from Bishop's University. A recognized student exchange counts as credits completed at Bishop's University.
6. Each university retains the right to accept or to refuse freely the registration of a student from another university.

Certificate Programs

A maximum of 9 credits completed at another university may be transferred to a Certificate program at Bishop's.

Bishop's Students:

1. Following admission to Bishop's University, a student may normally complete no more than two semesters or attempt (pass or fail) more than 30 credits, not including laboratory credits, at other universities during the completion of a Bishop's degree. Exception: Students in the Graduate Studies programs in Education may only complete a maximum of 9 credits at another recognized institution.

   At least 21 of the final 30 credits of a Bishop's degree must be completed at Bishop's, leaving a maximum of 9 credits which may be completed elsewhere on a letter of permission. Exception: students participating in a recognized Bishop's exchange program.

Under exceptional circumstances, a total of 12 credits could be taken elsewhere on a letter of permission approved by the appropriate Dean.

a) Students wishing to follow studies in another institution for credit at Bishop's must be enrolled as degree candidates at Bishop's.

b) Advance permission and advance approval of all aspects of the study must be secured on the appropriate form from the Chairperson of the department in which they are concentrating their studies and from the appropriate Divisional Dean. The credit transfer request form is available from the Records Office and, once completed, is placed in the student's file.

c) It is the responsibility of the student to ensure that an official copy of the transcript for the course(s) completed at another university is forwarded directly to the Records Office at Bishop's upon completion of the course(s). Transcripts will automatically be sent for students studying at other Quebec universities who registered through the BCI Website for Quebec inter-university credit transfer.

d) Courses successfully completed elsewhere may only be applied as credit towards a Bishop's University degree. The grades obtained in such course(s) are not included in the calculation of a student's cumulative average and can not affect a student's academic standing.

e) Any student who has been required to withdraw from the University may not complete courses elsewhere on a letter of permission.

f) Courses completed elsewhere without prior permission being obtained through the appropriate procedures outlined in this Calendar normally will not be accepted for credit towards a degree at Bishop's University.

g) Students returning to Bishop's following the completion of studies at another institution on a letter of permission must provide the Admissions Office with:
   i) a written statement of their intention to return to the University prior to the beginning of the semester in which they intend to return.
   ii) an official transcript of the results of these studies.

h) The academic regulations of the University, including those concerning probation and must withdraw status, apply to all Bishop's students. This includes those study-

ing elsewhere on a letter of permission as well as those studying on the Bishop's campus.

2. Under special reciprocal agreements concluded between Bishop's University and all other Quebec universities, students in a degree program at Bishop's wishing to enroll in courses at another Quebec institution (to a maximum of 30 credits), must initiate their request through BCI's Website for Quebec inter-university credit transfer. Credits so earned will be recognized towards a degree at Bishop's if the courses/ credits are approved by the academic department or Division concerned.

   Students wishing to profit from this reciprocal agreement must:

   a) ensure that the Bishop's timetable permits the desired external courses to be taken;

   b) obtain the Preliminary Credit Transfer Request Form from the Records Office. This form must be authorized by the Departmental Chairperson, appropriate Dean and the Registrar at Bishop's. Before a student's request for credit transfer is processed, it is necessary that any outstanding accounts receivable be paid, as well as the tuition for the courses to be taken at another Quebec university.

   c) enter the request via the Internet through the BCI Website (www.crepuq.qc.ca) by clicking on the button Autorisation d'études hors établissement. All required information must be entered. The system will process the request automatically, through the designated department advisors and Registrar's Offices at both institutions.

3. Each university retains the right to accept or to refuse freely the registration of a student from another university.

Interrupted Studies

Candidates for an undergraduate degree who have formally withdrawn from the University or who have, for any reason allowed twelve months or more to elapse without earning any credits at Bishop's University must apply for readmission to the University in respect of the appropriate deadlines. See the Admission Policies section of this calendar for details.

If readmitted after studies have been interrupted for ten years or more, the assessment of credits to be applied to the student's current program will be made by the Dean in consultation with the department. The Dean's decision may be appealed to the Academic Standing Committee. While program-specific courses may be deemed to have decayed after a period of ten years, general elective courses will not normally be considered subject to decay of credits.

Applying to Graduate

1. Candidates for degrees and certificates who expect to complete the requirements for a degree in a particular year must submit an Application to Graduate, along with the $70 graduation fee, to the Records Office prior to March 1 for the Spring Convocation. The $70 graduation fee covers charges related to the production and mailing of diplomas and is assessed whether or not a student plans to attend the Convocation ceremony.
2. Students who complete their degree requirements in the Summer session or the Fall Semester can request a letter from the Registrar certifying that their degree requirements have been satisfied and that their diploma will be granted at the next Convocation.
3. Students who achieve degrees with first class (80% or over) academic standing have the notation "with distinction" recorded on their transcripts and in the Convocation program. Students should check the individual Division or School sections in this Calendar for an explanation of the method used to calculate first class degrees.
4. Students with a failing cumulative average (i.e. below 50%) will not be eligible to graduate from the University. (See Additional Graduation Requirement in Business Administration)

Requirements for the Bachelor of Arts Degree of the Thomas More Institute

Students of the Thomas More Institute who have a Quebec collegial diploma (D.E.C.), are required to complete successfully 15 university-level courses (90 credits), as specified in the information booklet of the institute. Students 23 years of age or over who do not have a collegial diploma must complete three university threshold courses, in addition to the above requirement, for a total of 18 university-level courses (108 credits).

Details of the program and courses may be obtained from:

Thomas More Institute
3405 Atwater Avenue
Montreal, Quebec, H3H 1Y2
Tel.: 514-935-9585

REGULATIONS FOR CERTIFICATE PROGRAMS

Certificates may be completed on a full-time or a part-time basis.

Admission Requirements

Applicants to Certificate programs must fulfill the same admission requirements and follow the same application procedure as applicants to a Bachelor's degree in the same discipline (See Applying to Bishop's University and Admissions Policies.)

Academic Standing — Probation and Must Withdraw

Students in the Certificate programs must meet the Academic Standing criteria as outlined in the Academic Calendar. Students in the Certificate in Business Administration must also fulfill the requirements for maintaining good standing in Business.

Transfer Between Certificate and Degree Programs

Bishop's University students may make application for transfer from a Certificate to a Degree OR from a Degree to a Certificate program in the same or another discipline. The regulations governing Academic Program Changes will apply.

A maximum of 21 credits may normally be transferred from a Degree to a Certificate program.

A maximum of 30 credits may normally be transferred from a Certificate to a Degree program. If a student has graduated from a Certificate program, the credits earned in the Certificate may not be used to satisfy the requirements of a Minor in the same discipline.

Transfer of Credit to Certificate Programs

A maximum of 9 credits which have not been counted towards any other degree or certificate program at any other university may be transferred to a Certificate program at Bishop's, subject to the regulations governing transfer of credit from other institutions. (See Credit for Studies Completed Elsewhere.)

Completion of a Certificate Program Following Completion of a Bachelor's Degree

Students who have completed a Bachelor's degree at Bishop's University may be admitted to a Bishop's Certificate program in a different area of study. All 30 credits required for the Certificate must be completed at Bishop's.

GENERAL ACADEMIC REGULATIONS

1. Full-time or part-time status for each student in each semester will be determined by the student's course registration following the processing of all added and/or dropped courses. Withdrawal with permission from course(s) does not alter this status.
2. The normal registration for a full-time student in any semester is 15 course credits; the minimum number is 12 credits, including lab credits. Students following fewer than 12 credits, including lab credits, per semester normally are considered part-time students.

   Exception: A student requiring fewer than 12 credits to graduate in his or her final semester may petition the Registrar in writing to retain full-time status with fewer than 12 credits. Students in this situation will be required to pay the full student services fee.
3. The maximum course load for a full-time student is normally 18 credits per semester, not including lab credits. (Both ESL courses and EWP099 are included in the credit counts.) Subject to the general regulations set forth in the Calendar, students may be permitted to take an additional course (or courses) in excess of the requirements for a given semester with the written permission of the appropriate Dean. Students shall then have two choices:
   a) they may take the additional course as a regular subject for credit; or
   b) they may "audit" the additional course with the permission of the instructor and participate in class discussions and activities, but may not write the examinations or receive credit for the course. Audit courses are subject to the normal fee structure of the University and are charged in the same manner as credit courses.

   Note: In both cases (a) and (b), the student must register for the course in the usual manner and adhere to the applicable deadline dates for adding and dropping courses. The course entry will appear on the student's record if the course is not dropped by the deadline date.
4. A student may not be required to follow more than 12 course credits, excluding lab credits, in any one discipline during their first 30-credit program year. This will enable them to choose a Major or Honours program from at least two fields of study.
5. Students who receive permission to register as special full-time undergraduate or graduate (SFU, SPG or SPT students) may make such a registration for a maximum of two consecutive semesters (see Academic Program Changes). Such students must make a choice of, and be formally admitted to, an alternate degree program by the deadline for registration (normally the Add/Drop deadline) of the third semester. Students who fail to do so will not be permitted to register on a full-time basis in that semester.
6. Full-time students who do not register at the University for one semester or more for any reason (including those students studying elsewhere on a letter of permission) must make a written statement of their intention to return to the University to the Admissions Office prior to the beginning of the semester in which they intend to return.
7. Students in an undergraduate degree program who do not register at the University for 12 months or more must reapply for admission to the University. (See Interrupted Studies or Academic Standing.)
8. A university course taken by a student in order to fulfil the minimum requirements of a collegial program may reduce the specific requirements in a university program by that number of credits. It will not reduce the total number of credits required at the university level for a degree.

Language of Instruction

The language of instruction of the institution is English, and an English Writing Proficiency test is required for graduation. Nonetheless, students have the option to submit individual written work in either English or French, except where a knowledge or competency in a language is an object of the course. Students who wish to submit work in French must notify their instructor by the Add/Drop deadline so that, if necessary, special arrangements can be made for the evaluation of their work.

Application of the Extra Degree Credit Courses to a Student's Program:

1. ESL courses may be recorded on the academic transcript either as "EXT" (extra degree credit) or as credit courses.
2. Extra degree credit for ESL 070 is not included in the calculation of a student's academic or cumulative average.
3. Both ESL and EWP 099 are included in the credit count to determine a student's full-time or part-time status. They are also included in the maximum 15-credit count for students on academic probation.

EWP099 is not included in the maximum 12-credit count for students who are placed on restrict status by the Writing Proficiency program. Extra degree credit ESL courses are not included in the 30-credit minimum required for scholarship students.

Spring and Summer Registration: Bishop's and Elsewhere

1. A student is not normally allowed to pursue more than 15 credits total in Spring and Summer session at Bishop's University (a maximum of 9 credits in any one session) OR 12 credits in summer courses at another institution. In exceptional cases, students may petition the appropriate Dean for permission to enroll in up to 18 credits in the Bishop's Summer session.
2. Courses completed elsewhere during the Summer session must comply with the regulations listed under Credit for Studies Completed Elsewhere.

COURSE CHANGES/ COURSE WITHDRAWALS

Adding or Dropping Courses

1. The deadline date for dropping and adding one-semester courses, including course section changes (and changes from credit to audit status or vice versa) is normally eight days from the first day of class (see Sessional Dates).
2. Course Adds and Drops are accepted provisionally until it can be verified that the change(s) comply with any restrictions required by the student's academic or financial situation. Students will be informed as quickly as possible if a problem exists.
3. Students will be billed or refunded appropriately following the Add/Drop deadline should fees need to be adjusted.
4. Full-time or part-time status for each student in each semester will be determined by the student's course registration following the processing of all added and/or dropped courses.

Withdrawing with Permission from Courses

1. The deadline date for withdrawing with permission ("WP") from one-semester courses is normally approximately seven weeks after the beginning of the semester. For full-year courses, the deadline date is the same as the deadline date for dropping or adding Winter Semester courses.
2. Fees will not be refunded for "WP" courses.
3. A student's full-time or part-time status in a semester will not be altered by "WP" courses.

General Information

1. The onus for notifying the Registrar's Office of withdrawal from the University and for completing the necessary forms rests solely with the student. Simply ceasing to attend classes or labs, even when the instructor is informed, does not constitute withdrawal and will result in a failing grade in the course as well as possible financial penalties. Students who leave the University without completing a withdrawal form will have each of the applicable courses recorded as a zero and will not be eligible for any refund of fees. Those students holding scholarships must be responsible for meeting their obligation in returning or repaying all funds received for that semester or that year.
2. Registration for courses will take place on-line for both new and returning students during the registration periods listed at http://www.ubishops.ca/current-students.html. Once the semester has commenced adding / dropping courses can also be done on-line.
3. Students will not normally be permitted to add, drop or withdraw with permission from courses after the stated deadlines unless permission to do so is obtained from the appropriate Dean.
4. Students will not be permitted to withdraw from the University (WU) after the WP deadline without permission from the appropriate Dean. The student may petition the Dean for this permission in exceptional cases only.

ACADEMIC PROGRAM CHANGES

Williams School of Business

To be eligible for transfer into a B.B.A. or B.A. Major Business program from a non-Business program, students must have successfully completed at least 30 credits at Bishop's and have achieved a minimum average of 65% based on all courses attempted. Students will also be required to meet with the Dean of Business for an interview. The number of student transfers is determined according to final enrolment figures and the quota for the Division's maximum enrolment.

Any student who twice receives a failing grade in a course offered by the Business School will not be permitted to repeat the course again (see Regulations — Business programs). If this is a business course that is required in order to complete a B.B.A. or a B.A. Major Business, the student will not be eligible to transfer to either of these programs.

Humanities, Natural Sciences and Mathematics Divisions

Students may normally transfer into a program in the Divisions of Humanities or Natural Sciences and Mathematics, or their departments, with a minimum cumulative average of at least 60% on all courses attempted at Bishop's.

Students with an average below 60% may be considered for registration in some courses in the proposed Division (Department)

in order to allow them to show their potential for studies in that Division (Department). Such students will be classified as special full-time undergraduate (SFU) students.

Social Sciences Division

Students may normally transfer into a program in the Division of Social Sciences or between programs within the Division provided they have a minimum cumulative average of 65% on at least 24 course credits completed at Bishop's or provided they have demonstrated an aptitude for the program by achieving an average of 65% in all program courses attempted (minimum of 12 credits). For the purpose of this regulation, the cumulative average and course averages used will be those existing at the time the program change request is made.

School of Education

A student must obtain the formal permission of the School of Education to add a Major in Educational Studies – Elementary, or Double Major in Education and a teaching discipline – Secondary. Students will be admitted to these programs at the discretion of the School of Education. A 70% cumulative average is required for transfer into programs in Education.

General Information

1. Students must normally have completed a minimum of one semester at the University before requesting a transfer.
2. In the event of an academic program change, the student must notify the Records Office by completing and returning the correct form with the appropriate signatures. The Academic Calendar in effect at the time of the program change will determine the program requirements. Application for program change must be made on the appropriate form available at the Records Office and be approved by the appropriate Dean and Departmental Chair.
3. Program changes may necessitate re-evaluation of minimums and total credit requirements. A completed program must include all required courses/labs of the selected Honours/Major/Minor program(s) as described in the appropriate Academic Calendar and in the letter indicating credit requirement changes.
4. Students who are permitted to register as special full-time undergraduate (SFU, SPG or SPT) students may make such a registration for a maximum of two consecutive semesters.

   Such students must make a choice of, and be admitted to, an alternate degree program. See admissions section for details and deadlines. Students who fail to do so will not be permitted to register on a full-time basis in that semester.
5. The University realizes that there will be students who cannot continue their studies at Bishop's University as a result of their dismissal from one program and/or their ineligibility for transfer into any other program in the University.

EXAMINATIONS

Regular Examinations

1. Final examinations are held in December (for one-semester courses only) and in April. Other examinations may be held as required. Regular-load day courses (sections 01–04 inclusive) are normally scheduled during the day. Regular load evening courses (sections 05) may be scheduled during the day or evening. Continuing Education courses (sections 06–09) are normally scheduled on the evening the class is held.
2. Every instructor shall, in consultation with the students concerned, determine the procedures by which the final course grade will be arrived at for each course in his or her charge. These procedures shall be filed in the Vice-Principal's Office within the first two weeks of the course. The appropriate documents are open for examination by any registered student after being filed in the Vice-Principal's Office.
3. Departmental Chairpersons, in consultation with other members of the department and the students involved, may be permitted to reschedule examinations in the courses offered by the department without having to obtain the written consent of all students registered in the courses, providing that 2/3 of the students agree and that the rescheduling would not introduce any further conflicts in the examination schedule.
4. Examinations (other than final examinations) and tests can only be set during the formal working hours of the University, namely Monday through Friday from 8:30 a.m. to 6:00 p.m. Evening classes, however, will be allowed to set examinations during their regular class time. Students shall not be required to miss classes in order to write a test, nor shall students be scheduled to write two tests at once. Should either of these two situations arise, the professors and students involved will take immediate steps to remedy the situation to the satisfaction of the students' Academic Dean. Tests outside of normal working hours, or in the case of evening classes outside of regular class time, will require signatures of all students registered in the course.
5. No mid-term examinations totalling more than 10% of the final grade may be held during the last two weeks of lectures, with the exception of lab tests of 30% of the grade in lab courses of 1 credit.
6. Examinations in laboratory courses of 1 credit must take place on or before the last laboratory of the regular semester and will not be scheduled in the final examination period.
7. Students writing final examinations in the examination hall must present their Bishop's ID card to prove identity; otherwise the student may be barred from the examination hall.

Guidelines for Examination Invigilators

Identification: Students are required to identify themselves by displaying their Bishop's student card on their desk throughout the exam and by initialling their name on the class list.

Students may not enter the examination room after the first half-hour of the examination period. Students may not leave the examination room before onehalf-hour has passed.

Authority: The invigilator has the authority to dismiss from the examination room any student without proper identification. The invigilator may ask a student to leave an examination if he/she has reasonable grounds to believe that a student is breaking or has broken or is attempting to break a University examination regulation, e.g. cheating, impersonation, improper use of examination materials or attempting to communicate with or convey information to other students in any way. The invigilator also has the authority to dismiss from the examination any student whose behaviour could cause a disturbance or could constitute a threat to the safety or security of others.

All such instances must be reported to the instructor of the course (if this is not the invigilator) and to the Dean of the Division to which the student belongs, using a form designed for this purpose and available from the Records Office.

Instructions: At the start of the exam, the invigilator will refer to the Examination Regulations for Students (printed on the front of the examination books) and require the students to sign that they have understood them.

Presence: The invigilator must ensure that the examination room is not left unattended at any time during the examination. If possible, more than one invigilator should be present. If this is not possible, arrangements should be made for a regular check by a person able to conduct students to the washroom, convey messages, etc.

Illness or Emergency: If a student is unable to continue writing an examination due to severe stress or illness, the invigilator may allow the student to leave the examination room. The invigilator should make a note of the student's name and number and the circumstances and report these to the Dean of the Division to which the student belongs.

Disruption: In the event of an emergency evacuation during an examination, the invigilator will instruct students to close their examination books and leave all materials on the desk before leaving the building. If the alarm is of short duration, the examination can be continued; otherwise, students should be advised that the examination will be rescheduled. In the event of a power failure, students will close all materials but remain in the room until it is determined whether or not the examination can be continued. If the examination resumes, the examination period should be extended to compensate for the lost time.

In the event of a major disruption (for example fire, flood or a bomb threat), the examination would be terminated and rescheduled.

Invigilators may wish to carry a cell phone in case of emergency during the examination period.

Rereading of Submitted Work or Examinations

In cases where the rereading of sessional examinations, supplemental examinations or papers is requested, the following procedure will be followed:

1. Only individual course components constituting at least 25% of a final grade in a course can be reread.
2. Written application for the rereading of examinations shall be made to the Dean no later than one month after the beginning of the next regular semester of the University. Before an examination paper is reread by an external examiner, it must have been reread by the course instructor. The fee for rereading of examinations by external examiners is $55 per course.
3. The appointment of the external examiner shall be approved by the Departmental Chairperson and the Dean. In the case where the Departmental Chairperson is the original examiner, then another departmental member shall act in the appointment of the external examiner. Where the Dean is the original examiner, then the appointment of the external examiner shall be made by the Departmental Chairperson and one other member of the department.
4. The external examiner shall be provided with:
   a) all pertinent course materials, including objectives of the course, outline of topics, distribution of marks, texts, case materials, reading lists, etc.
   b) a copy of the examination paper or essay, without the grade assigned to individual questions, or to the paper as a whole, by the original marker.
5. The grade assigned by the external examiner, whether lower or higher than the original examiner's grade, shall be the grade recorded for that component of the course.

   If, as a result of the rereading of an examination, the student's grade is raised to at least a pass, the $55 will be refunded by the University.

Supplemental Examinations

1. The right to sit for a supplemental examination will be granted only at the discretion of the instructor.
2. A course passed after a supplemental examination shall be recorded as 50% and a failing grade will be recorded as F.
3. In order to qualify to write a supplemental examination in any course, a student must obtain a final grade of at least 45% in that course, with the exception of science courses which require a final grade of at least 35%.
4. The supplemental examination shall be given not later than the last day of the semester immediately following the original examination.
5. The supplemental examination shall be arranged through the Records Office, using the appropriate form, in consultation with the instructor.
6. The fee to sit for a supplemental examination is $35 if written on campus or $75 if written off campus.
7. The weight carried by a supplemental examination shall be that assigned to the final examination in that course, unless it is specified otherwise by the instructor in the course grading scheme submitted to the Office of the Vice-Principal.

8. In all cases, application forms to attempt supplemental examinations must be completed and returned to the Records Office, accompanied by the appropriate fee (see Fees, Miscellaneous) prior to the supplemental examination being written.
9. Supplemental examinations which would change the student's academic status (that is, from "must withdraw" to "on academic probation", or to remove "on academic probation" from the student's record) must be written by the Add/Drop deadline in order to change the status for that semester. Supplementals written following that date will change the status for the following semester.

Deferred Grades/Deferred Examinations

1. A student may be granted the privilege of a deferred final grade for a course, either by writing a deferred examination or by satisfying other written or oral requirements for the determination of the course grade on a deferred basis. The onus is on the student to petition the appropriate Dean for granting of deferred status in any course.
2. Normally, deferred status shall be requested in advance of the scheduled examination or deadline for other course requirements. However, should this not be possible, there will be a ten-day time limit after the date of the scheduled examination or after the due date for the course requirement for notification in writing to the Dean by the student of a request for deferred status.

   Note: Faculty members do not have the responsibility of requesting deferred exams or deadlines on behalf of students, nor do they have the authority to grant such status.
3. With respect to the documents which are to form the grounds for the request for deferred status, there will be a time limit of 30 days after the date of the scheduled examination or the deadline for the course requirement for receipt by the Dean of the official documents. Grounds for deferral may include medical, compassionate or such other grounds as may be approved by the appropriate Dean. Where the request is based on medical grounds, the documentation submitted from a physician or a hospital must include specific reasons to account for the absence of the student and indicate that the student was incapable of attempting the examination or other work on the date(s) in question. The onus is on the student to supply all of the necessary documentation to the Dean.
4. Deferred final grades shall normally be submitted within 30 days of the original deadline for the submission of grades for the course in question. The onus is on the student to contact the faculty member(s) to arrange for the completing of deferred exams or other course requirements. If no grade is received, a grade of "0" will be assigned to the course or course component in question. Final authority for the granting of deferred status, and any changes to this status, rests with the Dean.

General Regulations

1. Final responsibility for grades assigned to any course work or examination rests with the professor or instructor teaching the course.
2. Application for aegrotat standing: A student unable to attempt a final examination or some other requirement for a course, for a valid medical reason, may petition for credit in that course on the basis of satisfactory completion of the remaining course requirements. Such a petition must be accompanied by a statement from a physician and shall be ruled upon by the appropriate Dean.
3. Late submission of grades will not be accepted unless deferment has been granted on medical or compassionate grounds. Deferment or the correction of errors will be the only reason for change of grades.
4. A grade on a transcript shall not be changed after the last day of the semester immediately following the semester in which the grade was achieved.
5. A department may set a comprehensive examination in its Honours program at the end of the final semester.
6. Cases not covered by the above regulations may be referred by the student to the appropriate Dean.
7. Honours theses are to be evaluated according to a collegial principle. Specifically, a minimum of three members of a department, or two if the department has only two members, shall evaluate the thesis, their evaluations having equal weight.

Grading System for Undergraduate Studies

Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Education, Special Nondegree Status

Passing grade	50%–100%; P (pass)
Failing grade	0%–49%; F (failure)
80%–100%	(equivalent to A)
70%–79%	(equivalent to B)
60%–69%	(equivalent to C)
50%–59%	(equivalent to D)

The notation "Academic Honour Roll" appears on the transcript of a full-time student who maintains an average of 80–100% for the complete academic year (Fall, Winter Semesters).

Independent Study Courses

In addition to conventional lecture and seminar courses in which study is directed mainly on a group basis, some departments offer Independent Study courses which employ individual tutorials as a format. These courses provide opportunities for responsible students of proven overall academic ability to pursue topics in which they have a special interest, in an area for which they have demonstrated aptitude, through independent reading or research. Independent Study courses are listed by subject, in numerical order with other courses. Admission is at the discretion of the instructors, Departmental Chairpersons and Deans. The usual course registration form or Add/Drop form is used to register for Independent Study courses and must be submitted to the Records Office by the appropriate deadline dates.

Guidelines on Independent Study Courses

1 Independent Study courses may normally be taken only by Majors and Honours students in the area of their program. Minors students may be permitted to follow such a course only if it is required to complete the Minor program. Exceptions may be made with the permission of the Dean concerned.

2. Independent study implies adequate direct supervision by a faculty member during one of the regular sessions, i.e. Fall, Winter or Summer session. The faculty member should not be on leave of any kind.

3. Independent Study courses will be under the general supervision of departments rather than individual professors, and the departments must agree to proposed programs of study, marking schemes and grades awarded.

ACADEMIC STANDING

Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Education, Special Students

Formal written notification from the Academic Standing Committee or the Admissions Manager is the only valid statement of a student's academic standing. Opinions expressed by or information provided by individuals are not binding unless confirmed in writing by the Committee or the Admissions Manager.

Inquiries related to matters concerning academic standing should be directed to the Admissions Office.

Maintenance of Good Academic Standing, Probation, and Must Withdraw Status

1. Full-time students who have attempted at least 24 credits must maintain a minimum cumulative average of 55% calculated at the end of each Fall and Winter semester in order to remain in good academic standing.

   (See sections on Williams School of Business and School of Education for additional requirements of these programs.)

2. Part-time degree students who have attempted at least 18 credits must maintain a minimum cumulative average of 55% calculated at the end of each Fall and Winter semester in order to remain in good academic standing.

   (See sections on Williams School of Business and School of Education for additional requirements of these programs.)

3. General Interest (SPU) students must maintain a minimum cumulative average of 55% calculated at the end of each Fall and Winter semester in order to remain in good academic standing.

Students who do not achieve this standard are subject to the following regulations.

1. Full-time, part-time and SPU students failing to achieve a 50% average will be required to withdraw from the University for 12 months

   Note: A student may be required to withdraw without first being placed on probation if their academic performance requires it.

2. Students with averages between 50% and 54.9% will be placed on academic probation.
   a. Full-time students:
      i. will be required to raise their cumulative average to 55% by the end of the next two semesters in which they are registered. (Spring semesters are not counted.)
      ii. may not be registered in more than 15 credits, not including lab credits, per semester. Both ESL courses and EWP099 are included in the credit count.
   b. Part-time degree and SPU students:
      i. will be required to raise their cumulative average to 55% over the next 9 credits attempted.
      ii. may not register in more than 9 credits, not including lab credits, until probation has been removed. Both ESL courses and EWP099 are included in the credit count.

3. Students on probation who fail to achieve the 55% in the specified time period will be required to withdraw from the University for 12 months.

4. "Academic probation" and/or "must withdraw for academic reasons" will be recorded on the transcript of the students concerned.

Students who have been required to withdraw from the University for academic standing reasons are subject to the following regulations:

1. Students who have been required to withdraw from the University may not register for any course(s) at the University or complete courses elsewhere on a letter of permission for a minimum period of 12 months.

2. Students who have been required to withdraw may apply for re-admission to the University.
   a. Re-admission requests must be submitted according to the published application deadlines (see Applying to Bishop's University)
   b. Students should contact the Admissions Office for information on the re-admission application process.
   c. Students who are accepted back into the University will be re-admitted on academic probation.

Academic Standing Appeals

1. The above regulations are implemented by the Divisional Deans and the Academic Standing Committee and administered by the Admissions Manager.

2. Decisions of the Divisional Deans on academic probation, withdrawal from the University and subsequent readmission are binding.

3. A student may request the Academic Standing Committee to reconsider an unfavourable decision, but such a request does not necessarily constitute a basis for provisional readmission. Only one request for reconsideration of a Dean's decision will be heard by the Committee in each case.

4. Students wishing to request reconsideration should contact the Admissions Office for additional information on the process.

5. Appeal documentation must be submitted to the Admissions Office by:
   a) June 30 to have an academic standing decision re-considered for the Fall semester
   b) January 5 to have an academic standing decision re-considered for the Winter semester

General Information

1. The specific regulations regarding maintenance of good standing in the programs of the Williams School of Business and the School of Education are in effect in addition to the regulations above and following, where applicable (see Business or Education).
2. The cumulative average is calculated using all courses attempted at Bishop's, including those in which a grade of "0" is received, with the exception of extra degree credit ESL courses and courses from which students have withdrawn with permission. The courses are weighted according to their credit value.
3. Courses completed elsewhere are not included in the calculation of Bishop's University's cumulative average (see Credit for Studies Completed Elsewhere).
4. Should a student repeat a course at Bishop's in which a grade has already been received, the grade awarded in the second registration will be used in the calculation of the cumulative average and credits awarded, regardless of whether it is the higher or lower grade. Repeated courses will not affect academic standing, which is based on academic performance in a particular academic year.
5. Students with a failing cumulative average (i.e. below 50%) will not be eligible to graduate from the University (see Additional Graduation Requirement in Business Administration).
6. Students who have been asked to withdraw may not register for any course(s) at the University or complete courses elsewhere on a letter of permission.
7. Applications for readmission must be submitted in writing to the Admissions Office. Students who are readmitted will be admitted on probation.
8. A full-time student on academic probation may not be registered in more than 15 credits, not including lab credits, per semester. A part-time student on academic probation may not register in more than 9 credits, not including lab credits, until probation has been removed. Both ESL courses and EWP099 are included in the credit count.
9. "Academic probation" and "must withdraw for academic reasons" will be recorded on the transcript of the students concerned.
10. Formal written notification from the Academic Standing Committee or the Admissions Manager is the only valid statement of a student's academic standing. Opinions expressed by or information provided by individuals are not binding unless confirmed in writing by the Committee or the Admissions Manager.
11. In cases of alleged procedural errors, incorrect information or discrimination, an appeal may be made to the Student Appeals Committee.
12. Inquiries regarding any of the above should be addressed to the Admissions Office.

Regulations for Graduate Studies in Education

The Degree of Master of Education or Master of Arts

To qualify for the degree of Master of Education or Master of Arts in Education, a candidate must be a graduate of this or another approved university and must complete 45 credits of graduate-level work in Education, including a curriculum studies project, an educational leadership project, an art education project, a monograph or a thesis.

Courses leading to these programs are offered during the Summer and on Saturdays in the Fall and Winter Semesters, both on the Bishop's campus and at off campus locations situated at selected school boards. The Master's programs are offered on a part-time basis.

General Academic Regulations

1. Applicants may be admitted to one of the following: the Master of Arts in Education or the Master of Education program.
2. M.Ed./M.A. students who receive a grade lower than 70% have failed the course and are not permitted to continue in the program without formal permission of the School of Education's Admissions Committee.
3. Students enrolled in either the M.Ed. or the M.A. who have not registered for any course during a period of more than 24 months are deemed to have withdrawn. They may reapply for admission to the program, subject to the same procedures and conditions as new applicants.

Transfer Credit

A candidate for the Master of Arts in Education or the Master of Education degree may, with the permission of the Dean of the School of Education, complete up to three appropriate courses (9 graduate-level credits) at another recognized institution. Candidates should obtain prior approval for such courses. Such courses may not be used to meet the requirements of core courses or projects, monographs, or theses.

Regulations for Graduate Studies in Science

The Division of Natural Sciences and Mathematics of Bishop's University offers a Master of Science degree (M.Sc.) program in the Departments of Chemistry, Computer Science, and Physics. Potential students are referred to the appropriate departmental section of this Calendar for specific program information.

Admission

1. Completed applications will be forwarded to the appropriate department for evaluation. Recommendations for admission to a degree program are made by the department to the Dean. Final approval for admission is made by the Dean.
2. Advanced courses of instruction leading to the Master of Science degree are open to graduates of any university of recognized standing who have obtained at least a Bachelor's degree with Honours with Class II standing or its equivalent. An applicant who has followed a combined program must have obtained at least a Class II standing in the subject of the Masters degree.
3. Applicants who do not satisfy these requirements may, with the permission of the department concerned and the Dean, be admitted to a qualifying semester(s) or year to bring their standing up to that of an Honours B.Sc. degree.
4. Admission to graduate courses does not in itself imply candidacy for a graduate degree.
5. All information is processed through the Admissions Office.
6. These regulations for admission are minimum requirements. Additional requirements may be specified by departments, with the approval of the Division.

General Regulations

1. Apart from any qualifying semesters, the minimum period of registration for the M.Sc. shall be one academic year of full-time study, including research or its equivalent in part-time study. This requirement must be met regardless of the amount of graduate work previously completed in any other program or at any other university.
2. The maximum time allowed for the fulfillment of the requirements for graduation shall normally be four years in the case of full –time students, excluding any qualifying or inactive semesters. For part-time students the course-work required for qualifying semesters (if any) and the regular credit requirements of the program must be completed at the rate of no fewer than 6 credits per year.
3. Students may choose to leave the program temporarily for one semester, but only with permission of their supervisor; these students shall be considered inactive for that semester. Such a one-semester leave of absence from the program will not normally be allowed more than twice.
4. Students must obtain a minimum of 65% in each required course. Courses may not be repeated more than once.
5. Each degree candidate will be assigned, by the department in which the thesis is to be submitted, to a supervisor who shall be a faculty member of the department and who will be responsible for advising the candidate and directing his/her research. Co-supervisors may also be assigned with the department's approval.
6. The course of study will be arranged by the supervisor. The subject of the thesis also requires approval by the supervisor.
7. The responsibilities of the students include: informing themselves of program requirements and deadlines, working within these deadlines, communicating regularly with their supervisors; and submitting annual progress reports to their supervisors and the Division.
8. Students may receive (limited) financial support from the University in the form of research assistantships, undergraduate marking, tutoring and/or laboratory demonstrating duties. Such support requires approval in writing from both the department and the Dean. Duties and remuneration will be clearly stated and in no case shall duties exceed ten hours per week on average.
9. All students in graduate courses or degree programs enjoy the protection of the University's policy and procedures on academic review and appeal (see pp. 21–24 of the University Calendar) and on research ethics (see the Vice-Principal for documentation).
10. A passing grade is 65% or better or "P" for pass. A grade less than 65% or "F" is a failure.

Supervision

1. It is the responsibility of the supervisor to monitor the progress of students throughout the graduate program, to ensure that all conditions of admission and requirements are fulfilled, to provide students with information on their program, and to advise them how to resolve problems which may arise during their program.
2. Thesis supervisors must be tenured or tenure-stream faculty or adjunct faculty. Sessional and contract faculty may co-supervise students with the department's approval. Emeritus Professors may co-supervise. In all cases, the department must ensure continuity of appropriate supervision of their graduate students.
3. Problems that cannot be resolved by discussion between the student and the supervisor shall be referred to the Dean.
4. Information concerning sources of financial support and policies on obtaining same should be sought from the Dean.
5. Students must receive guidance and constructive criticism concerning their progress on a regular basis through the program, including regular meetings and/or e-mail communication with supervisors, attendance at research seminars, and appropriate responses to the student's annual progress report.
6. By April 15 of each year, M.Sc. candidates must submit to their supervisors a progress report covering both courses and research programs. This report must include the candidate's name, program and semester, a list of courses completed and their grades, a list of courses in which the candidate is registered, and a list of courses yet to be taken. A statement concerning the research work must include the title of the thesis (or if this has not yet been decided, a general title of the project), a short outline of the work to its present state, including the amount of work done and the significant findings of the research, plus a statement of the work proposed for the future and a realistic estimate of the time required for its completion.
7. The supervisor will evaluate the annual progress report and grant a grade of "satisfactory" or "unsatisfactory". Copies of this graded report will go to the department concerned and one to the Division. The department may compel a student to

withdraw from the M.Sc. degree program in the event of an "unsatisfactory" grade on an annual progress report. Students have the right to have this decision reviewed, first by the Dean and then by the Academic Review Committee.

Thesis Regulations

1. All M.Sc. students must make a satisfactory oral presentation and defense of their thesis before graduating. Three copies of the thesis of a degree candidate must be submitted, with the approval of the supervisor, to the Division at least two months in advance of the marks deadline of the semester in which it is to be defended.
2. The three copies of the thesis delivered to the Division must be accompanied by a letter from the supervisor informing the Division of the names of the two persons who have consented to act as examiners of the thesis (see Regulation 3). The secretary of the Division shall forward one copy of the candidate's thesis to each examiner with an appropriate covering letter.
3. The thesis shall be orally presented and defended before two examiners other than the supervisor, one of whom shall be an external examiner who is a specialist in the candidate's field of interest. The examiners shall be selected by the supervisor and department concerned, subject to the approval of the Dean. A thesis will be accepted only following approval of its defense by both examiners. A thesis may be returned to the candidate for revision on the advice of one or both examiners and subsequently re-defended (once only).
4. After the thesis has been defended and accepted, at least three copies shall be properly bound by the University at the candidate's expense, one for deposit in the Library, one for the retention of the department concerned and one for the supervisor. At the request of the candidate, a fourth copy maybe bound for his/her personal use.
5. Advice concerning the preparation and presentation of theses is to be provided by the supervisor and department concerned.
6. It is the responsibility of a supervisor to uphold and to transmit to students the highest professional standards of research and scholarship in the preparation of theses; to provide guidance in all phases of the student's research; to meet with their students regularly; to provide prompt feedback on submitted work, including drafts of the thesis; and to clarify expectations regarding collaborative work, authorship, publication and conference presentations which may result from the student's research.

Programs and Courses

Scheduling of Courses

The regular hours of the University are Monday to Friday, with classes commencing between 8:30 a.m. and 4:30 p.m. inclusive. Evening courses may begin after 4:30 p.m. A 3-credit course will have a minimum of 36 contact hours.

Before any course in the Calendar may be scheduled outside these hours, approval must be obtained from the appropriate Dean.

Course Numbering System

1. A Fall Semester course bears the letter "a". A Winter course bears the letter "b". A one-semester course that may be given in any semester bears the letters "ab". A two-semester course bears no letter and is expected to be completed during the Fall and Winter Semesters.
2. Undergraduate courses:
   (a) Course numbers starting with "0" are usually those taken in the first year of a four-year program, though they may be taken as additional credits in a three-year program.
   (b) Courses numbered from 100 to 199 are normally first-year courses.
   (c) Courses numbered from 200 to 299 are normally second-year courses.
   (d) Courses numbered from 300 to 399 are normally third-year courses.
   (e) Courses numbered from 400 to 499 are Honours courses or courses in the Bachelor of Education.
3. Graduate courses: courses numbered from 500 to 799.
4. All the courses listed in this Calendar are not necessarily offered every year. Please consult the Timetable for a list of offerings each semester.

Credits and Hours Code

With reference to the credit requirements, it may be noted that (normally) 1 credit is awarded for a one-semester lab course, 2 credits for a two-semester lab or Music ensemble course, 3 credits for a one-semester lecture course, 4 credits for a two-semester practical Music course, 6 credits for a two-semester lecture course, and 6 or more for a thesis.

Information as to the credit value and hours of scheduled class activities for each course is contained in a three number code which follows the title. The first number in the code is the credit value of the course; the second number is the hours per week of lectures, tutorials and seminars; and the third number is the hours per week of laboratory work and other scheduled class activities. For example, the code 3-2-3 indicates 3 credits; two hours per week of lectures, tutorials or seminars; and three hours per week of laboratory work or other scheduled class activities. Additional information on the format of presentation of a course may be contained in the description of the course.

Please note that the credit requirement given for a program is the minimum and does not include lab credits. Students are advised to consult their letter of admission for the credit requirements specific to their program.

Definitions

Audit: With the permission of the instructor, a student may participate in class discussions and activities, but may not write the examinations or receive credit for a course. Audit courses must be part of the student's formal registration and are subject to the normal fee structure of the University (i.e. are charged in the same manner as credit courses).

Cognate: A course offered by a department other than that in which a Major has been declared, but which is accepted by the Major department as part of the degree requirements.

Corequisite: A course in which a student must be registered concurrently (at the same time) in order to receive credit in the desired course.

Cumulative average: Average calculated on all courses attempted at Bishop's in which a numerical grade has been received (including "0"s) with the exception of extra degree credit ESL courses. However, should a student repeat a course in which a grade has already been received, the grade awarded in the second registration will be used in the calculation of the cumulative average regardless or whether it is the higher or lower grade. (Repeated courses will not affect academic standing.)

Elective: A course taken in a degree program which is not applicable to the Honours/Major requirements, but which counts towards the total requirements for the degree; an optional course.

Exemption: A student may be exempted from an introductory course at the University when comparable non-university course work has been completed elsewhere. No credit will be granted towards their Bishop's degree for the exemption. The exempted course must be replaced by a Bishop's course of equal credit.

Honours: An Honours program requires a high level of concentration in one area of study, normally about two thirds of the total courses taken for a degree. Students in Honours programs must demonstrate a high level of academic achievement, and a thesis is often required.

Major: A Major in any subject consists of slightly fewer than half of the total courses taken for a degree (normally about 48 credits excluding labs).

Minor: A Minor in any subject consists of about one third of the total courses taken for a degree (normally 24 or 30 credits, excluding labs).

Prerequisite:

a. A course which must be successfully completed prior to registration for credit in the desired course (e.g. MAT210a is a prerequisite for MAT211b).
b. A course which is required by a particular department and which should be completed in the first 30 credits at Bishop's (e.g. PSY101 is a required prerequisite for the Psychology Major). These are listed in the program requirements prior to the course descriptions of each department.

Transfer Credit: A student transferring to Bishop's from another university may be eligible for advance credit, to be granted on admission, for their work completed on presentation of official transcripts and course descriptions for evaluation. Credits awarded are subject to further review should the student change programs.

Continuing Education

Bishop's University Continuing Education is dedicated to fulfilling the lifelong learning needs of the community by offering credit and non-credit courses and programs through its Lennoxville and Knowlton campuses. Its mission is to ensure continued access to educational programs of the highest quality for adult learners within the Eastern Townships who wish to pursue their studies.

Whether you are trying to develop your career, enhance your skills through professional development, or engage in meaningful and enriching learning opportunities, our programs and courses are designed with you in mind.

Intensive day programs offered by Continuing Education include the following:

The English Language Summer School

Two sessions: May–June or June–July

1– 4 Week English Immersion for Professionals during the month of July

For a list of current course offerings and all related information, please contact:

Office of Continuing Education
Bishop's University
2600 College Street
Sherbrooke, Quebec J1M 1Z7
Tel.: 819-822-9670 or 1-877-822-8900
E-mail: contedu@ubishops.ca

English Writing Proficiency (EWP) and The Writing Centre

ALL STUDENTS ENTERING BACHELOR DEGREE PROGRAMS AT BISHOP'S UNIVERSITY MUST SATISFY THE ENGLISH WRITING PROFICIENCY REQUIREMENT (FOR EXEMPTIONS, SEE BELOW). FOR DETAILS, SEE EWP UNDER "ACADEMICS", ON THE BISHOP'S HOME PAGE

English Writing Proficiency (EWP) Requirement

The Requirement can be satisfied by passing either the EWP Exam or the English Writing Proficiency course EWP099, described below. Please note that EWP099 does not count as an elective towards a degree and is to be completed in addition to the regular program requirements.

1. Full-time students are required to take the EWP Examination at the beginning of their first semester.
2. Part-time students are required to take the EWP Examination in the semester immediately following their declaration of a degree program.
3. The EWP Requirement must be satisfied within the first 45 credits of a student's program. Students enrolled in ESL courses or working on their writing skills in other courses may be given more time to meet the Requirement.
4. Students should write the EWP Exam at least once every academic year until they pass.
5 Students who do not pass the EWP Examination should review their exams at the Writing Centre (Divinity 10) before they rewrite.
6. **RESTRICT STATUS: Students who have more than 45 credits and who have not passed the EWP Exam or EWP099, are not taking ESL classes, or, have not written the EWP Exam during the academic year, may be placed on RESTRICT STATUS.**

RESTRICT STATUS

Students on EWP Restrict Status will be restricted to registering in only four courses per semester and are required to write the EWP Exam and/or register in EWP099.

Students working on their writing skills in courses other than EWP099 must still pass the EWP Exam.

Exemptions from the EWP Requirement

The following students are exempt:

1. Students who have completed an undergraduate or graduate degree at an English institution.
2. Incoming international exchange students. The EWP Examination and the course EWP099 are optional for these students.
3. Students in Certificate programs.

EWP099ab English Writing Proficiency 3-3-0

A basic writing course of English for academic purposes, consisting of a lecture and tutorials designed to improve students' skills in written English. Emphasis is placed on the development and organization of ideas, text clarity, coherence, grammar and syntax.

This course is designed for students who do not pass the EWP Exam. Other students who wish to enroll in the course need permission from the Program Coordinator.

This course cannot be used as an elective.

Passing EWP099 satisfies the EWP requirement.

Consultation Service

Students who want help or feedback on their written assignments can sign up for free consultations at The Writing Centre. Assistance is given in essay planning, organization, development, grammar and syntax. Students can also review their EWP Exams and get help with application letters and letters of intent.

Workshops

The Writing Centre offers free interactive workshops to help students improve their written work, including How to write letters of intent for graduate school, How to plan an essay, How to write a research paper, Punctuation made easy, and How to write introductions and conclusions.

UNIVERSITY-WIDE EXPERIENTIAL LEARNING COURSES

The University is committed to providing interested students with opportunities to take part in experiential learning projects. Funds are made available each year through the Bishop's Experiential and Service Term (BEST) competition and through the Experiential Learning Committee. Many departments have courses specifically designed to offer experiential learning, and most have Independent Studies courses that can be structured so as to be experiential. The courses below are designed to host experiential learning projects that cannot be housed within departmental offerings. Note that as is always the case with experiential learning, the explicit support and supervision of a Faculty member is necessary for the course to take place.

ELP 300 Experiential Learning Internship/Placement 3-1-10

Linked to the student's academic program, the student will be involved in an experiential learning activity (on his/her own or as part of a team) that will normally involve an internship/placement in an organization for 12-15 weeks approved by the Experiential Learning Committee of Senate and the internship/placement supervisor. Course work for the course will involve the preparation of an activity plan including goals, the work itself and a critical analysis on what was learned and/or accomplished during the internship/placement.

ELL 200 Experiential Learning Lab 1-0-3

Linked to the curriculum of a regular course, the student will be involved in an experiential learning activity (on his/her own or as part of a team) in an organization that will normally involve 30 hours of official activity approved by the professor of the regular course. Such activity will be in addition to the work accomplished in the regular course to which the lab is affiliated. Course work for the lab will involve the preparation of an activity plan including goals, the work itself and a critical analysis on what was learned and/or accomplished during the activity.

Prerequisite: approval of instructor

SLP 399 Situated Learning and Praxis 3-

Under professor supervision, the intention of this course is to foster learning through collaborative critical thinking, creativity, and entrepreneurship among the students from various disciplines and members of a local community in Malawi. Students are prepared in the winter semester to engage in situated learning in rural Malawi for a period of five to six weeks during the spring session. The result of the experience is meant to encourage students and local community members to creatively expand their own borders of learning and area of studies through a spirit of reciprocal participation and dialogue.

Williams School of Business

The Williams School of Business at Bishop's University is dedicated to providing a high-quality undergraduate business education within the liberal arts education tradition of the University. Students may work towards one of two degrees: A Bachelor of Business Administration (BBA) or a Bachelor of Arts (BA) with a major in business. The BA Major in business is ideal for those who wish to combine their business studies with a different subject. The BBA offers the most in-depth approach to business studies, with several concentrations for specialization.

BBA Concentration at Bishop's:

- Accounting
- Entrepreneurship
- Finance
- General Business Management
- Human Resources
- International Business
- Marketing

Minor programs are also available in both Business Administration and Entrepreneurship. Neither of these, however, is open to business students. Joint programs with other programs at Bishop's University include Majors in Arts Administration, Information Technology, as well as a Major and Minor in Sports Studies. Certificates in Business Administration and in Human Resources are also available.

We have an international focus within the Williams School of Business which is reflected in our international student exchange program, workshops, conferences, case competitions and faculty involvement in international research projects. The Williams School of Business also encourages students to develop an international awareness of different business practices and cultures. Students have the opportunity to participate in an **exchange program** that allows them to study abroad for up to one year at any partner university in over 50 countries worldwide. The Williams School of Business is accredited with the Network of International Business Schools (NIBS).

The Williams School of Business offers a **Co-operative Education** Program which combines a student's academic program with integrated work experiences through full-time work terms and regular academic sessions. The work terms are designed to present the students with the opportunity to blend theory and practice and to gain relevant work experience.

The blend of courses and programs described in the following pages is designed to prepare our graduates for full and enriched participation in their chosen profession.

BUSINESS PROGRAMS

The William School of Business offers two programs leading to undergraduate degrees in business administration: a Bachelor of Business Administration (B.B.A.) and a B.A. Major Business. Both degrees have the same required core curriculum covering the fundamentals of the main functional areas in Business (Accounting, Finance, Management, Marketing, Organizational Behaviour and Operations) and a capstone course in Business Policy that helps students to integrate the knowledge gained in these areas.

Required Business Core Courses:

ECO 102	Introduction to Microeconomics
ECO 103	Introduction to Macroeconomics
BCS 220	Management Information Systems
BMA 140	Statistical Analysis for Business Decisions I
BMA 141	Statistical Analysis for Business Decisions II
BAC 121	Purposes of Accounting
BAC 221	Introduction to Managerial Accounting
BFN 200	Introduction to Finance
BHR 221	Organizational Behaviour
BMG 112	Introduction to Management Theory and Practice
ILT 100	Information Literacy and Critical Thinking Lab (1-credit lab)
BMG 215	Introduction to International Business
BMG 311	Business Policy
BMK 211	Marketing Management
BMS 231	Operations Management

Note: All required Business core courses are normally offered in each semester (Fall and Winter).

The B.B.A. program is designed for students with a strong interest in Business Administration. It offers greater opportunity to develop skills in specific functional areas (Concentrations) of study. In addition to the 42-credit Required Core, students select a concentration stream in which they will complete 30 credits. Streams are available in the areas of Accounting, Entrepreneurship, Finance, General Business Management, Human Resource Management, International Business, and Marketing.

I. 120-CREDIT B.B.A.

Required core courses ..... 42 credits
Concentration stream courses ..... 30 credits
(36 credits for the Accounting stream)
Electives** ..... 18 credits (42 credits for the Accounting stream)

CEGEP graduates are eligible for up to 30 advanced credits, and are usually able to complete the program in 3 years. Other students are expected to complete the program in 4 years.
***At least 30 credits must be outside of business*

Suggested Course Sequencing:

The following are for general guidance purposes, and might vary according to individual circumstances. For assistance in course selection and sequencing, students are strongly encouraged to consult the Academic Adivsor, Department Chair, and Area Group Coordinators.

1st Year

ILT 100 (one credit lab)
MAT 196, MAT 197
– only if math program prerequisites not satisfied
BMA 140, BMA 141
ECO 102, ECO 103
BMK 211
BMG 112
BAC 121***
BCS 220
Up to three free electives

*** CEGEP graduates interested in pursuing the Accounting concentration are advised to take BAC 121 in their first semester, BAC 122 in their second semester, and BAC 211 commencing their 2nd year.)

2nd Year

BHR 221
BFN 200
BAC 221
BMG 215
Remaining required core, concentration,
and free elective courses

3rd and 4th Year

BMG 311
BMS 231
Remaining required core, concentration, and free elective courses

II. HONOURS B.B.A.

Doing an honours program in the WSB automatically adds an additional 6 credits to your B.B.A. program.

To qualify for an Honours B.B.A. degree, a candidate must:

1. complete their regular B.B.A. Program
2. apply for entrance into the honours program in the term **prior to** their last 30 credits in the program, and have, at that time, an overall average of 75% in all courses taken in their program.
3. obtain an overall average of 75%
4. register for BMG 352 (Honours Project) – 6 credits

CONCENTRATION STREAMS

Within the B.B.A. program, the Williams School offers concentration streams in a variety of Business disciplines. A concentration stream is comprised of a total of 30 credits. These include required courses, a specified number of courses to be chosen from a list of courses in the concentration, and an indicated number of electives which can be either business or non-business courses. In order to be credited with a concentration as part of the B.B.A., all of the stream requirements must be completed. Students should consult the Area Group Coordinator of each concentration stream for course selection advice. For students completing two concentration streams, one course may be double counted across the two concentration streams.

ACCOUNTING CONCENTRATION STREAM

Knowledge of accounting is fundamental to all disciplines in business. The skills acquired in the program prepare students for positions of leadership in organizations spanning all sectors of the economy including, senior management, strategic government positions, consulting, teaching, auditing and finance.

At the Williams School, this stream is designed to meet the needs of business students with clearly defined career objectives and interested in further education and professional training, such as a CPA designation.

Professors Gandey, Hivert, Talbot

Accounting Concentration Stream Courses

12 courses, 36 credits

The following courses are required for this concentration

BAC 122	Financial Accounting
BAC 211	Intermediate Financial Accounting I
BAC 212	Intermediate Financial Accounting II
BAC 241	Systems and Control
BAC 311	Advanced Financial Accounting
BAC 312	Intermediate Managerial Accounting
BAC 322	Management Control
BAC 331	Taxation I
BAC 332	Taxation II
BAC 341	Auditing
BFN 203	Corporate Finance
BMG 221	Business Law

Please note:

Enrolment in the accounting concentration stream is limited – students are invited to apply for the accounting concentration by filling out a change of program from and sending it to the Area Group Coordinator for Accounting as soon as they've decided upon the Accounting concentration. Applications for this concentration will be accepted until May 31st. Applications will be accepted after May 31st only if there is still space available in the concentration for the subsequent year. Students coming from the CEGEP system should apply at the end of their first year of University and High School or International students at the end of their second year of University.

If the number of applications for this concentration is greater than the number of spaces available, priority will be given to students with the highest overall grades.

CEGEP students are advised to take BAC 121 in their first semester, BAC 122 in their second semester, and BAC 211 commencing their 2nd year.

Students contemplating an accounting designation are advised to consult with the accounting Area Group Coordinator and the respective provincial associations for the specific details of the requirements. Additional courses in a graduate program may be required for the CPA designation.

ENTREPRENEURSHIP CONCENTRATION STREAM

This concentration stream provides the opportunity for the student to obtain a complete understanding of the entrepreneurial process of starting a new venture, of growing the venture, and of harvesting the new venture. This is within the context of the current rapidly growing entrepreneurial movement worldwide. The student will learn how the entrepreneurial mind thinks, how an opportunity is assessed, and how resources are harnessed to take advantage of that opportunity. This stream includes courses which give experience working with actual entrepreneurs in conjunction with the Dobson-Lagassé Entrepreneurship Centre.

Entrepreneurship Concentration Stream Courses:
10 courses, 30 credits

Required: 5 courses, (15 credits)

BHR 224	Human Resource Management
BMG 230	Business Research Methods
BMG 214	Introduction to Entrepreneurship: New Venture Creation
BMG 318	The Successful New Venture: Feasibility Analysis and the Management of Risk
BMG 320	Topics in Entrepreneurship

Plus any 3 courses (9 credits) of:

BMG 322	Change Management
BMG 323	Interpersonal Skills
BMG 324	Management of Innovation
BHR 316	Organizational Conflict and Negotiation
BMK 321	Marketing Research
BMK 323	Marketing Communications
BCS 212	E-Commerce

Plus: 2 courses (6 credits) which may be in this stream, in business, or outside of business

FINANCE CONCENTRATION STREAM

The curriculum is designed to provide students with broad exposure to all dimensions of finance. Students will learn professional skills and acquire technical and analytical competence to pursue challenging careers in corporate finance, banking, portfolio management, and securities research .

In addition to a thorough understanding of the principles of financial management, students will be exposed to both theoretical and practical aspects of investment management, capital budgeting, capital formation, and risk hedging. Opportunities to explore current topics and apply practical solutions to current theory are also provided. When following a prescribed sequence of courses, students are qualified to write the first level C.F.A. (Chartered Financial Analyst) exam immediately upon graduation. Students can also compete in their last two years of studies for managerial positions within the SEED Portfolio.
Professors Béquet, Leventhal, Valsan

Finance Concentration Stream Courses:
10 courses, 30 credits

Required Courses: 3 courses (9 credits)

BAC 122	Financial Accounting
BFN 203	Corporate Finance
BFN 210	Capital Markets

Plus any 5 courses (15 credits) of:

BFN 301	Capital Budgeting
BFN 315	Financial Derivatives
BFN 340	Risk Management in Financial Institutions
BFN 341	Corporate Governance
BFN 342	Theories of Finance
BFN 351	Financial Statement Analysis
BFN 352	Investment Analysis and Portfolio Management
BFN 354	Seminar in Finance
BFN 356	SEED Portfolio (6 credits)
BFN 360	International Finance
BMS 303	Forecasting Techniques

Plus any 2 courses (6 credits), which may be in this stream, in Business, or outside of Business.

GENERAL MANAGEMENT CONCENTRATION STREAM

This concentration stream allows students to design their own concentration stream. Students may select courses from any other stream based upon their personal interest and objectives. Students are advised to consult with the Chair for assistance in course selection

All Williams School Faculty

General Management Concentration Stream Courses:
10 courses, 30 credits

Required: Any 7, 300-level Business courses (21 credits)

Plus: 3 courses (9 credits) which may be in Business or outside of Business

HUMAN RESOURCE MANAGEMENT CONCENTRATION STREAM

There is growing recognition that the quality of an organization's human resources plays a strategic role in an ever changing business environment. With organizations facing the need for continuous change in a competitive environment they must, more than ever, begin to rely on the knowledge, skills and abilities of their workforce to confront such challenges. Through courses such as Compensation Management, Human Resource Management, Industrial Relations, Training and Development, Occupational Health and Safety and Organizational Behaviour, students will learn how to ensure that the Human Resource goals of attracting, developing and maintaining a competitive workforce are accomplished. Students completing this concentration stream may want to discuss with faculty the course options for certification as a Human Resource professional.
Professors Gallina, Teed

Human Resource Management Concentration Stream Courses:
10 courses, 30 credits

Required: 1 course (3 credits)

*BHR 224	Human Resource Management

Plus any 6 of:

BMG 230	Business Research Methods
*BHR 312	Labour Relations
*BHR 313	Compensation Management
*BHR 315	Training and Development
BHR 316	Organizational Conflict and Negotiation

BHR 317	Organizational Dynamics
BHR 321	Organizational Theory
BHR 325	Topics in Human Resource Management
*BHR 326	Personnel Recruitment & Selection
*BHR 328	Occupational Health, Safety, and Wellness
BHR 330	International Human Resources
*BHR 333	Employment Law
BHR 334	Administering the Collective Agreement
BMG 322	Change Management
ECO 204	Labour Economics

Plus: 3 courses (9 credits) which may be in this stream in Business, or outside of Business

*Courses marked with an asterisk have been designed to give discipline-specific knowledge required for the Certified Human Resources Professional (CHRP) designation. In order to be considered as a CHRP, students should consult the human resources professional association in their respective province.

INTERNATIONAL BUSINESS CONCENTRATION STREAM

(Application required)

This concentration stream provides students with a broad vision of the global business environment, as well as with global strategies and management practices.

The International Business concentration stream builds on the existing strengths of the business program by offering cognate courses in disciplines such as Political Science and Economics to provide a worldwide perspective essential to transnational managers.

To be accepted, students must make a formal application to the Dean of Business for admittance to the International Business Concentration Stream. Normally, students should apply after the successful completion of 15 credits (Cegep students) or 30 credits (High School and International Students) in their Business program. In order to be eligible to apply, a student must have a minimum of a 70% cumulative average. A student is then required to maintain a minimum cumulative average of 70% to remain in the concentration and to be eligible to go on an exchange. The number of spaces in the concentration stream is limited. Simply having an average of at least 70% does not guarantee admission to the concentration stream. Students must select their courses in consultation with the Department chair of the Williams School of Business. A requirement of students accepted into the International Business concentration stream is to study abroad as an exchange student for a minimum of one semester, and a maximum of two semesters. It is recommended that International Business concentration stream students include language courses in their free electives. The exchange component combined with the emphasis on managing across cultures, economies, currencies and various governments' policies will introduce the student to the current issues, problems and solutions that contemporary managers face in a global economy.

Professors Fortier, Monk, Rutihinda, Valsan

International Business Concentration Stream Courses: 10 courses, 30 credits

Required: None

Any 6 of (but no more than 2 cognates) from:

BFN 360	International Finance I
BHR 316	Organizational Conflict and Negotiation
BHR 330	International Human Resources
BMG 222	International Law
BMG 312	Competitiveness
BMG 315	International Management
BMG 322	Change Management
BMG 325	Leadership in a Multicultural World
BMK 372	International Marketing

Cognate courses:

POL 140	International Relations
POL 231	European Union: History, Institutions and Policies
POL 242	International Organizations
POL 333	Internationalization of European Public Policies
POL 346	Politics of Global Finance
ECO 217	International Economics

Plus: 4 additional courses (12 credits) which may be in this stream, in Business, or outside of Business

MARKETING CONCENTRATION STREAM

The marketing function and the role of the marketing manager, are important and demanding. Analytical tools from economics, mathematics, statistics, management science, and from the social and behavioural sciences are applied in marketing.

The marketing curriculum is designed to provide the student with a comprehensive analysis of contemporary marketing techniques and with an analysis of the environmental forces affecting the marketing activities of the firm.

Professors Palmer, Reid, Wang

Marketing Concentration Stream Courses: 10 courses, 30 credits

Required: 4 courses, (12 credits)

BMK 214	Consumer Behaviour
BMG 230	Business Research Methods
BMK 321	Marketing Research
BMK 332	Marketing Channels

Plus any 4 of:

BMK 323	Marketing Communication
BMK 340	Product Strategy and Innovation
BMK 350	-Marketing Strategies for Environmental Sustainability
BMK 354	Topics in Marketing
BMK 362	Sport Marketing
BMK 371	Industrial Marketing Strategy
BMK 372	International Marketing Strategy
BMK 381	Marketing Policies

Plus: 2 courses (6 credits) which may be in this stream, in Business or outside of Business

III. 120-CREDIT B.A. BUSINESS MAJOR*

Required core courses .....42 credits
Business electives .....18 credits
Electives ** .....60 credits

** CEGEP graduates are eligible for up to 30 advanced credits, and are usually able to complete the program in 3 years. Other students re expected to complete the program in 4 years.*

*** At least 30 credits must be outside of business.*

Suggested Course Sequencing:

The following are for general guidance purposes, and might vary according to individual circumstances. For assistance in course selection and sequencing, students are strongly encouraged to consult the Academic Advisor: Department Chair, an Area Group Coordinators.

1st Year

ILT 100 one credit lab
MAT 196, MAT 197 – *only if math program prerequisites not satisfied*
BMA 140, BMA 141
ECO 102, ECO 103
BMK 211
BMG 112
BAC 121
BCS 220
Up to three free electives

2nd Year

BHR 221
BFN 200
BAC 221
BMG 215
Remaining required core, and elective courses

3rd and 4th Year

BMG 311
BMS 231
Remaining required core, and elective courses

IV. CO-OPERATIVE EDUCATION PROGRAM

(Application required)

The Co-operative Education Program combines a student's academic program with integrated work experiences through full-time work terms and regular academic sessions. The work terms are designed to present the students with the opportunity to blend theory and practice and to gain relevant work experience.

Each co-operative work term is between 12 and 16 weeks in length and the student will be registered in a 3-credit Co-operative Placement course (BMG 391, BMG 392, BMG 393). These course credits are in addition to their regular degree program requirements. Each is graded on a pass/fail basis and this grade is not included in the student's cumulative average. The evaluation is the responsibility of the Department Chair and will be based upon the submission of a work term report and self-evaluation by the student and a satisfactory job performance report submitted by the employer. Normal academic regulations apply to the conduct and evaluation of the courses.

Students receiving advanced credits will be evaluated on a case by case basis; however, students who receive advanced credits in excess of 54 credits will not be eligible for co-op. Students who are in business as a second degree program are not eligible for co-op. CEGEP students who have completed their DEC need only complete 2 work terms (6 credits) in order to graduate with COOP. High School and International Students in a four year degree program will be required to complete 3 work terms (9 credits). These credits will be added to the student's program and do not count as business courses, business electives, or free electives, but are required to graduate with the co-op designation. All work terms must be completed before the student's final academic semester and a student's last semester before graduation cannot be a work term. While every effort will be made to find a suitable placement for all students in the program, no guarantee of placement can be made since the employment process is competitive and subject to market conditions.

Admission to the Co-operative Education Program

Full-time students in the Williams School of Business with a minimum cumulative average of 70% after completing 15 credits (1 semester) are eligible for consideration to the Co-op Program provided they submit their résumé (curriculum vitae) and a letter of intent for review. A student is then required to maintain a minimum cumulative average of 70% in order to be eligible to remain in the co-op program and to participate in any of the program's activities. Admission is limited to full-time students in any Honours or Major program offered in the Williams School of Business.

Please consult the Co-operative Education section on the Bishop's University website for important dates, deadlines and updates at *www.ubishops.ca/coop.*

Tuition and Fees

Each work term placement is a 3-credit course and students will pay tuition based upon their fee paying status (Quebec resident, Canadian out-of-province, International).

In addition, an administrative fee of $200 per placement will be charged to help cover the cost of preparing for, monitoring and evaluating work placement. Payment is to be made through the Business Office.

Work Term Evaluation

Successful completion of the work term is based upon the receipt of a satisfactory job performance report from the employer and a satisfactory work term report and self-evaluation submitted by the student.

The work term report will cover the comprehensive analysis of competencies acquired during the work placement. In rare cases, a student may request an alternative evaluation format that must be approved by the Dean. An outline of relevant competencies will be provided to students choosing this option. The topic of the report will be selected in consultation with the COOP Coordinator and the employer and must be approved by both.

The job performance report will be completed by the employer, using guidelines supplied by the Williams School of Business. It is the student's responsibility to ensure that the employer sends the completed evaluation to the COOP Coordinator supervising the placement. Employer evaluations are confidential and are not reported on the student's transcript.

V. INTERDISCIPLINARY PROGRAMS

1. Arts Administration Option – Please see the Division of Humanities section of the calendar for program requirements.

The 72-credit interdisciplinary program combines the study of business, the creative arts and arts administration to provide students with the skills and knowledge needed to be active participants in the cultural sector. In addition to the core courses in business and in the core courses in one of the creative arts (Drama, Fine Arts or Music), students also take 12 required credits in Arts Administration. At the end of their program, students will be provided with co-op opportunities when they enroll in the program's Practicum, AAD 353, and will be placed in a variety of cultural venues consistent with their disciplinary focus. In addition to the Practicum course, there are several opportunities for internship employment on campus through internships in Centennial Theatre, The University Gallery, the Music Chez Nous Concert Series, the Eastern Townships Research Centre and other campus-based professional organizations.

VI. MULTIDISCIPLINARY PROGRAMS

1. B.A. Major in Information Technology – please see the Multidisciplinary Program section of the calendar for program requirements

This program provides the necessary skills and knowledge to work/design/participate within organizations that manage large amounts of data and provide services to a large number of users.

2. B.A. Major in Sports Studies – please see the Multidisciplinary Program section of the calendar for program requirements.

This program exposes students to the social, biological, political, business and economic aspects of sport in society.

VII. MINOR IN BUSINESS ADMINISTRATION

(*Application required* – see page 49, section 4)

(For non-business students only. Students following the Arts Administration Option or Sports Studies Business Concentration are not eligible for a Business Minor.

The Minor in Business Administration requires the completion of the following courses:

BAC 121
BMG 112
BMA 140 (requires MAT 196)
BFN 200 (requires ECO 103 and BAC 121)
BMK 211
Plus 9 credits of Free Business electives

It is important to note the following:

1. While the Business Minor appears to require the completion of 24 credits, in fact a minimum of 30 credits is generally necessary as a result of required course prerequisites for BMA 140 and BFN 200 (see above).
2. Students who have been granted course equivalence for BMA 140 must replace BMA 140 with a free Business elective course.
3. Students pursuing the Minor must respect all prerequisite requirements for senior Business courses they take as free Business electives. For example, a student wishing to take Human Resource Management (BHR 224) must first take Organizational Behaviour (BHR 221).

VIII. MINOR IN ENTREPRENEURSHIP

(For non-business students only)

The Williams School of Business offers an Entrepreneurship Minor requiring the following courses:

BMG 214
BMG 318
BMG 320
Plus 15 credits of Business electives
Total: 24 credits

***Note**: Students pursuing the Entrepreneurship Minor must respect all prerequisite requirements for senior Business courses they take as free Business electives. For example, a student wishing to take Human Resource Management (BHR 224) must first take Organizational Behaviour (BHR 221). In some cases, required prerequisites may include MAT 196 and MAT 197. It is strongly suggested that students consult the Department Chair prior to embarking on this Minor.*

IX. CERTIFICATE PROGRAMS IN BUSINESS

Certificates may be completed on a full-time or a part-time basis.

Regulations governing Certificate Programs

Admission requirements

Students must make a formal application for admission to Certificate programs on the special form for this purpose available at the Admission's Office, or online.

Applicants for admission to Certificate programs must fulfill the same admission requirements as applicants to a Bachelor's degree in the same discipline. (see Admission requirements — Degree Studies).

Academic standing — probation and must withdraw

Students in the Certificate programs must meet the Academic Standing criteria for part-time students as outlined in the Academic Calendar. Students in the Certificate in Business Administration must also fulfill the requirements for maintaining good standing in Business.

Transfer between Certificate and Degree programs

Students may make application for transfer from a Certificate to a Degree OR from a Degree to a Certificate program in the same or another discipline. The regulations governing Academic Program Changes will apply.

A maximum of 21 credits may normally be transferred from a Degree to a Certificate program.

A maximum of 30 credits may normally be transferred from a Certificate to a Degree program. If a student has graduated from a Certificate program, the credits earned in the Certificate may not be used to satisfy the requirements of a minor in the same discipline.

Transfer of credit to Certificate programs

A maximum of 9 credits which have not been counted towards any other degree or certificate program, at any other university, may be transferred to a Certificate program at Bishop's, subject to the regulations governing transfer of credit from other institutions (see Credit for Studies Completed Elsewhere).

Completion of a Certificate program following completion of a Bachelor's degree

Students who have completed a Bachelor's degree at Bishop's University may be admitted to a Bishop's Certificate program in a different area of study. All 30 credits required for the Certificate must be completed at Bishop's.

Certificate in Business Administration

30 credits

Description and objectives:

The Certificate in Business Administration provides an academic background in Business Administration to students who are pursuing or wishing to pursue a career in management in the private or public sectors. The Certificate program presents a broad survey of underlying disciplines and an introduction to the functional areas in Business Administration, both theoretical and practical.

Admission requirements:
(See Regulations governing Certificate programs).

Prerequisites to programs:

The Certificate in Business Administration requires that an applicant complete MAT196 and MAT197 (or equivalent).

I. Required courses: 5 courses — (15 credits) in Business Administration

BAC 121ab	**Purposes of Accounting**	**3-3-0**
BMG 112ab	**Management Theory and Practice**	**3-3-0**
BMA 140ab	**Statistical Analysis for Business Decisions I** *(requires MAT 196)*	**3-3-0**
BFN 200ab	**Introduction to Finance** *(requires ECO 103 and BAC 121)*	**3-3-0**
BMK 211ab	**Marketing Management**	**3-3-0**

II. Optional courses: 5 courses — (15 credits) of free Business electives:

Certificate in Human Resources

30 credits

Description and objectives:

There is a growing recognition that the quality of an organization's human resources plays a central role in an ever changing business environment. With organizations facing the need for continuous change in a competitive environment, they must more than ever begin to rely on the knowledge, skills and abilities of their workforce to confront such challenges. Human resources is a field of business administration that works towards ensuring this for the organization. Through courses such as compensation management, human resource management, industrial relations, training and development, and organizational behaviour, students in the Certificate in Human Resources program will learn how to ensure that the human resource goal of attracting, developing and maintaining a competitive workforce is accomplished.

Admission requirements:
(See Regulations governing Certificate Programs).

Tier I courses required:

BMG 112ab	**Management Theory and Practice**	**3-3-0**
***BHR 221ab**	**Organizational Behaviour**	**3-3-0**
***BHR 224ab**	**Human Resource Management**	**3-3-0**

Tier II courses 5 out of 10 required:

***BHR 312ab**	**Labour Relations**	**3-3-0**
***BHR 313ab**	**Compensation Management**	**3-3-0**
***BHR 315ab**	**Training and Development**	**3-3-0**
BHR 321ab	**Organizational Theory**	**3-3-0**
***BHR 326**	**Personnel Recruitment and Selection**	**3-3-0**
***BHR 328**	**Occupational Health and Safety, and Wellness**	**3-3-0**
***BHR 333**	**Employment Law**	**3-3-0**
BHR 334	**Administering the Collective Agreement**	**3-3-0**
ECO 204ab	**Canadian Labour Economics**	**3-3-0**

**Courses marked with an asterisk have been designed to give discipline-specific knowledge required for the Certified Human Resources Professional (CHRP) designation. In order to be considered as a CHRP, students should consult the human resource professional association in their respective province.*

Tier III courses 2 out of 4 required:

BHR 316ab	**Organizational Conflict and Negotiation**	**3-3-0**
BMG 322ab	**Change Management**	**3-3-0**
BMG 323ab	**Interpersonal Skills**	**3-3-0**
BMG 324ab	**Management of Innovation**	**3-3-0**

REGULATIONS APPLYING TO ALL BUSINESS PROGRAMS

Enrollment in the Williams School of Business is limited. Students must normally have a minimum R score of 23 from CEGEP and 75% from high school to be considered for admission to these programs.

1. PREREQUISITES

a. Mathematics:

To enter a Business program Cegep graduates must normally have a Quebec collegial diploma (D.E.C.), or the equivalent, including Mathematics 201-NYC (201-105) and 201-NYA (201-103). Students having the required prerequisites can normally complete their undergraduate programs in three years.

CEGEP students lacking these prerequisites will have their advanced credits reduced. The department deems Mathematics 201-NYA (201-103) and 201-NYB (201-203) taken as part of a DEC to satisfy these Mathematics requirements.

High School and International students entering a Business program must register in the required equivalent Mathematics — MAT 196 and MAT 197. The requirement can also be fulfilled by completing MAT 191 and MAT 192. Students lacking the appropriate preparation for MAT 196 and MAT 197 will be required to take an additional course MAT 190.

Students in a program who must take the required mathematics courses will use these courses as free non-business electives.

b. Students are normally required to complete MAT 196 and MAT 197 within the first 30 credits of their program for CEGEP students and within 45 credits for high school and international students.

c. Computer Literacy

Students are expected to have basic computer literacy in the following areas — word processing, spreadsheets and data bases.

2. EXEMPTIONS

Students who have been granted exemptions from Required Business core courses must replace them with Business courses. Students are advised to consult with the Department Chairperson prior to course selection.

3. DOUBLE FAILURE RULE

Any student who twice receives a failing grade in a course offered by the Business Department will not be permitted to repeat the course again. If this is a business course that is required in order to graduate with a B.B.A., B.A. Major Business, the student will not be eligible to graduate with that degree. This regulation applies to students in non-business programs where a business course is required to complete their degree. This implies that having twice received a failing grade in the same business course at Bishop's precludes a student from receiving transfer credits for the same course.

Please see Double failure regulation in the Economics section of this calendar.

4. TRANSFERS FROM OTHER BISHOP'S PROGRAMS

To be eligible to transfer into either the B.B.A., B.A. Major Business or a Business Minor from a non-business program, a student must have successfully completed at least 30 credits at Bishop's and have achieved a minimum overall average of 75% based on all courses attempted. The number of student transfers is determined based on final enrollment figures and the quota for the School's maximum enrollment. Deadline to apply is July 1.

5. MAINTENANCE OF GOOD STANDING

Notwithstanding the University regulations on Academic Standing, the Williams School has its own regulations on Maintenance of Good Standing. Students with cumulative averages of 60% or more remain in good standing in the B.B.A. and B.A. Major Business programs. Once students have completed two academic semesters, their averages will be calculated on all courses attempted. In the calculation of a student's average, failures will be included. If the failed course is repeated, or if a passed course is repeated to achieve a higher mark, the second attempt in either case will be used in the cumulative average.

All students, after completing their first two semesters, must maintain a cumulative average of over 60% to remain in good standing. After two semesters, students with cumulative averages less than 50% must withdraw from the program. Those with cumulative averages between 50% and 59% will be permitted to remain in the Williams School for one semester in which they must improve their cumulative average to 60%. Students who do not achieve good standing will not be eligible to continue in the BBA or BA Major Business programs at Bishop's University, nor will they be eligible to transfer back into these programs.

Students who fail to maintain good standing in Business will be required to make a choice of an alternate degree program by the end of two consecutive semesters following their dismissal from the Business program. Should they fail to do so, or fail to be accepted into an alternate program, they will not be permitted to register as a full-time student in the next semester.

6. GRADUATION "WITH DISTINCTION"

The notation "with Distinction" will appear on the transcript of students who graduate with a cumulative average of 80% or more and is only available for first degree students.

7. ADDITIONAL GRADUATION REQUIREMENT

(B.B.A. and B.A. Major Business)

A student must have a minimum cumulative average of 60% in all courses taken in order to graduate with a B.B.A. or B.A. Major Business degree. Calculation of this average will employ the same methodology as in the "Maintenance of Good Standing"

8. BUCS

All B.B.A. and B.A. Major Business students are assessed a $10.00 per semester fee to cover the activities and events of the Bishop's University Commerce Society (BUCS).

9. CREPUQ Exchanges

See International Business Concentration Stream for International Exchanges

Students wishing to explore the opportunity to study abroad as an exchange student should consult with the International student office. Students need a minimum cumulative average of 70% to qualify to go on exchange. Students should also consult with the Chair of the Williams School for important academic information concerning exchanges.

BUSINESS COURSES

Required Lab Course for Business Students

ILT 100 Information Literacy and Critical Thinking (lab) 1-0-1

This one credit lab course is required for all Business Students. The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments in Business. The course includes the correct use of library resources, including the online catalogue, periodical indexes, and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet, and the critical evaluation of retrieved resources. Academic integrity, plagiarism and the correct citation of print and online sources are also taught. The course is practical, and students are given the opportunity for hands-on experience in the library's electronic classroom. This lab course cannot be used as a lecture course credit.

ACCOUNTING COURSES

BAC 121ab Purposes of Accounting 3-3-0
The study of accounting and its role in the analysis and communication of financial events. The information provided by accounting, particularly through the financial statements, and issues associated with existing accounting processes will be explored.

BAC 122ab Financial Accounting 3-3-0
An examination of the measuring, recording and reporting of financial information with reference to specific items in the financial statements.
Prerequisite: BAC 121.

BAC 211a Intermediate Financial Accounting I 3-3-0
Further development of accounting principles. Particular emphasis is placed on an in-depth evaluation of financial statement presentations in Canada.
Prerequisite: BAC 122.

BAC 212b Intermediate Financial Accounting II 3-3-0
An in-depth consideration of specific accounting topics (e.g. accounting for income taxes, partnership accounting, current value accounting). Current practices and the relevant CICA recommendations will be reviewed in terms of theoretical concepts and principles.
Prerequisite: BAC 211

BAC 221ab Introductory Managerial Accounting 3-3-0
This course is an introduction to the tools of accounting information for management decision making. Topics include comparison of financial and managerial accountants, job order costing, process costing, cost behaviour, cost-volume relationships, activity based costing, budgeting, standard costs and reporting for control.
Prerequisite: BAC 121

BAC 241a Systems and Control 3-3-0
All organizations require reliable and secure information systems in order to successfully conduct their day-to-day operations. For many businesses, sophisticated accounting information systems are in place and internal control is crucial in the process of producing reliable financial information. In the context of the information age, this course examines corporate responsibility as well as the function of computerized systems. Topics such as accounting systems development, implementation of controls, fraud detection and E-commerce security will be explored.
Prerequisite: BAC 122, BAC 212

BAC 311b Advanced Financial Accounting 3-3-0
A study of accounting theory and application related to the following topics — business combinations, long-term intercorporate investments, branch accounting, non-profit accounting, and foreign exchange. Emphasis is on accounting principles currently accepted in Canada.
Prerequisite: BAC 212

BAC 312a Intermediate Managerial Accounting 3-3-0
This is the second course in managerial accounting which covers new topics such as balanced scorecards, limitations of reporting for control, non-financial measurements and outsourcing. Furthermore, application of the various techniques learned in BAC221 will be applied.
Prerequisites: BAC 212, BAC 221, BMA 141

BAC 322b Management Control 3-3-0
Written and oral analysis of management control problems. Topics include decision models, performance evaluation and decentralization. This course also applies theories from other accounting courses into practice via case analysis.
Prerequisites: BAC 312

BAC 331a Taxation I 3-3-0
Introduction to income tax law in Canada with primary emphasis on the determination of the tax liability of individuals in receipt of various sources of income. Topics include Residence, Tax Status, Capital Cost Allowances, Capital Gains, Property Income and Tax Credits. Issues such as the equity fairness and complexity of the tax system, tax evasion and tax planning are considered.
Prerequisite: BAC 122

BAC 332b Taxation II 3-3-0
This course builds upon the principles and concepts of Canadian Income Tax introduced in BAC 331. In particular, it examines the application of income tax law as it applies to Corporations. Attention is given to effective income tax planning for shareholder — manager remuneration, estates and for capital gains deferrals.
Prerequisite: BAC 331

BAC 341b Auditing 3-3-0
The concept of internal control and fundamentals of auditing. Topics include: legal and moral responsibilities of the auditor; controls required in principal accounting systems; selection of appropriate audit techniques; and preparation of audit reports.
Prerequisite: BAC 212, BAC 241

BUSINESS COMPUTER SCIENCE

BCS 210 IT Entrepreneurship 3-3-0
This course is designed to introduce undergraduate students to Information Technology (IT) Entrepreneurship. First of all ,it provides the history and background of IT-enabled start-up companies (originating from Silicon Valley and now widespread throughout the world). Second, students in this course will learn the process that IT entrepreneurs use to launch and manage IT-enabled start-up companies. Third, students will gain experience building up their own detailed business plans and models for an IT-enabled start-up company, which involves generating business ideas, identifying customers, funding their business, developing a team for the start-up, and addressing legal issues.
Prerequisite: BMG 112

BCS 212 Electronic Commerce 3-3-0
Internet technology has dramatically changed the way people communicate, collaborate, coordinate and conduct business. This course is about Electronic Commerce and Electronic Business; a different way of doing business. The course deals with EC technological infrastructure including the World Wide Web networks, hardware and software. It also deals with EC implementation strategies and the impact of EC on traditional businesses and organizational structures, strategies and management.
Prerequisite: BAC 121 and BMK 211

BCS 216 Managing Information Technology 3-3-0
The objective of this course is to provide students with a better understanding of modern techniques to manage information Technology. This includes a basic knowledge of main ideas and key theories relating to IT management; management of hardware, software and network of large scale information systems; management and control of information systems security; and understanding complex concepts of data management.
Prerequisite: BCS 220

BCS 220ab Management of Information Systems 3-3-0
This course covers the management perspective of Information Systems. An IS Department or IS unit manages data and information which are among the most valuable organizational resources in today's modern businesses. The MIS includes the setting of a direction for information resources, the management of technology resources and the management of the information systems function. A variety of different types of IS will be covered. The list includes Enterprise Resource Planning Systems, Knowledge Management Systems, and Electronic Systems.
Prerequisite: BMG 112

BCS 313 System Design and Development 3-3-0
This course combines concepts and practices in business information systems development. The entire process of MIS development will be studied: the feasibility study, structured analysis techniques, data file modelling and normalizing, database schema definition, implementation strategies, security and maintenance constraints. To emphasize the concepts covered in class, a MIS prototype will have to be developed using a DBMS such as ACCESS. A case study approach will be used.
Prerequisite: BCS 220

FINANCE COURSES

BFN 200ab Introduction to Finance 3-3-0
This course introduces the study of finance in the context of modern business decision-making. The central focus of the course is the valuation of real and financial assets and the tools used for that purpose. Students will become familiar with such concepts as time value, discount rate, and net present value. These concepts will be presented with the help of real-life examples and cases that will illustrate the many ways in which finance can solve business problems.
Prerequisite: BAC 121, ECO 103,MAT 196

BFN 203ab Corporate Finance 3-3-0
This course represents an introduction to corporate finance. It focuses on the determinants of financial policy at the microeconomic level. The students will become familiar with the issues and challenges faced by a financial manager.

Emphasis will be placed on financial planning and corporate growth, capital structure, and dividend policy decisions.
Prerequisite: BFN 200.

BFN 210ab Capital Markets 3-3-0
The emphasis in this course is on domestic and international capital markets — stocks, bonds, foreign currencies, etc. Whereas Finance I and Finance II concentrate on internal financial decision making, this course surveys the external environment in which the firm operates. Managers need to know how to satisfy investors' demands and obligations in order to meet their external needs for capital resources. Students interested in a career as a money manager, research analyst, investment sales and virtually any occupation involved with the investment management process should consider this course. Topics will include the efficient market hypothesis, analysis of fixed income and equity securities, derivatives and principles of portfolio management.
Prerequisite: BFN 200, BMA 140. This course is required for students in the Finance stream.

BFN 301 Capital Budgeting 3-3-0
This course describes how managers are making long-term investment decisions involving capital assets, such as plant, equipment, machinery, research and development, etc. The main topics include, but are not limited to net present value, internal rate of return, cost of capital, adjusted present value, real options, mergers and acquisitions, and many others. Special emphasis is placed on tackling complex case studies that require an integrative approach to understanding various corporate finance issues.
Prerequisite: BFN 203

BFN 306 Behavioural Finance 3-3-0
This course brings together knowledge from the area of modern finance and cognitive sciences into one unified framework. Students will learn about cognitive biases and how individuals make financial decisions, the role of emotions and heuristics in dealing with complex critical systems, and how individual behaviour aggregates into corporate financial strategies and broad stock market movements.
Prerequisites: BFN 203, BFN 210

BFN 315 Financial Derivatives 3-3-0
Futures and options markets have become increasingly important in the world of finance and investments. It is essential that all professionals understand how these markets work, and how derivatives are valued. This course will study the derivatives markets, assess their characteristics, and describe how they are used by hedgers, speculators and arbitrageurs.
Prerequisites: BFN 210

BFN 340 Risk Management in Financial Institutions 3-3-0
The financial management of financial institutions such as commercial banks, investment dealers and insurance companies is strongly focused on the management of different types of risk. These risks include credit risk, market risk, liquidity risk and operational risk. This course provides a conceptual framework for understanding modern models of risk management in financial institutions and examines the choices made by institutions with regard to risk bearing and management. The financial institution of primary focus will be the commercial bank.
Prerequisites: BFN 203, BFN 210

BFN 341 Corporate Governance 3-3-0
Corporate Governance offers insights into the relationship between economic efficiency and economic organization. The main issues addressed in this course include the comparative analysis of free markets and hierarchies, the nature and allocation of financial claims, the organization and functioning of various corporations around the world, and the connection between ethics and economic performance.
Prerequisites: BFN 203

BFN 342 Theories of Finance 3-3-0
The main focus of this course is to survey and discuss various theories that constitute the foundations of modern finance. These theories include, but are not limited to Rational Behavior, the Efficient Market Hypothesis, Behavioral Finance, and Game Theory. A special emphasis will be placed on emerging paradigms, such as Fractals, Complex Systems, and Chaos Modeling.
Prerequisites: BFN 210

BFN 351 Financial Statement Analysis 3-3-0
A detailed analysis of financial statements as an aid to making investment decisions. The differentiation between economic income and accounting income and impact of different accounting principles on corporate earnings are discussed.
Prerequisite: BFN 203, BAC 122

BFN 352 Investment Analysis and Portfolio Management 3-3-0
Introduction to the various security instruments and intermediaries and the structure and functioning of the markets within which they are cast. Conventional techniques for evaluating securities, including technical analysis. The construction of a portfolio by traditional diversification, randomized selection and efficient diversification methods.
Prerequisite: BFN 210

BFN 354 Seminar in Finance 3-3-0
Selected topics will be chosen from contemporary issues in Financial Theory, Corporate Finance, and Domestic and International Capital Markets. The specific topics will be dependent upon the timeliness of the issue and student background and interest. A portion of the seminar will be conducted in the case method.
Prerequisites: BFN 203, BFN 210, BFN 301, BFN 315, BFN 352, BFN 360

BFN 356 SEED Portfolio 6-3-0
The SEED course has been designed with the objective of providing finance students with the means to practically apply their knowledge. The course gives students the opportunity to act as investment managers, in order to gain a more comprehensive understanding of portfolio management. This will be accomplished by having students invest in recognized North American equities, after prudent research and consulting with an external advisory board.
Students will apply to the program upon entering their penultimate year. After an application process which includes resumes and interviews, students will be selected as Research Assistants. Research Assistants have to complete two company analyses, which they will present to their External Board. As well, they have to answer any requests their Portfolio Managers may have. Upon completion of a year as Research Assistants, students will move into the position of Portfolio Managers, conditional upon the approval of the Faculty Advisor. Portfolio Managers are in charge of setting up the strategy for the portfolio. They are responsible for all buy/sell/hold decisions. Emphasis will be on the importance of analysis and presentation, in order to reach consensus among Portfolio Managers, and on the use of appropriate decision making tools.
Prerequisite: Permission of instructor.

BFN 360 International Finance 3-3-0
This course provides a broad overview of the major aspects of finance in an international setting. The focus will be on measuring and coping with foreign exchange risk from the managerial perspective of multinational corporations. The main topics of this course include the examination of spot, forward and futures markets, the use of derivative contracts, international financial markets, international financing, capital budgeting, direct foreign investment and international mergers and acquisitions.
Prerequisite: BFN 200

HUMAN RESOURCE MANAGEMENT COURSES

BHR 221ab Organizational Behaviour 3-3-0
This course is designed as an introduction to the study of individual and group behaviour in organizations. The purpose is to enable students to understand human behaviour and its determinants in the organizational setting and, therefore, to deal with it effectively. Throughout the course emphasis will be placed on students' conceptualization of the theoretical aspects of organizational behaviour, as well as the practical application of these theories through case analyses.
Prerequisite: BMG 112
Note: Students who complete BHR221 cannot receive credit for PSY309. For prerequisite purposes PSY309 is equivalent to BHR 221.

BHR 224 ab Human Resource Management 3-3-0
Management of people is a recognized competitive corporate advantage. This course is designed to introduce the current theory, research and practice of human resource management. Specialized topics central to human resource management are introduced. Learning is facilitated through lecture, student presentations, and class discussions.
Prerequisite: BHR 221
Note: All students in a Human Resource Management stream must take this course.

BHR 312 Labour Relations 3-3-0
The subject matter of industrial relations is the interdisciplinary study of people and their work. Through an integration of theory and practice, the objective of this course is for students to gain an initial ability to analyze, understand, and manage many of the major issues of the employment relationship in the contemporary workplace. Topics addressed include the following: the broad, legal economic

social and historical context of industrial relations; the theory and practice of trade unions; unionization in the public sector; and labour and employment law.
Prerequisite: BHR 224 or POL 214

BHR 313 Compensation Management 3-3-0
This course provides students with an understanding of the strategic role of organizational compensation management in today's competitive environment. Students will explore the theory, concepts and methods used to design compensation systems which will contribute to individual and organizational goal achievement. Current and controversial topics in the field of Compensation Management will also be discussed.
Prerequisite: BHR 224

BHR 315 Training and Development 3-3-0
The course introduces students to the practice of training and developing employees. Both practical and theoretical aspects are explored. The entire process of training is explained, from the determination of training needs, setting training objectives, designing the training programs, selecting the appropriate training and development techniques, to the evaluation of training results. Both traditional and contemporary training methods are reviewed within this framework.
Prerequisite: BHR 224

BHR 316 Organizational Conflict and Negotiation 3-3-0
This course introduces students to the structure and processes of conflict and negotiations faced by organizations. Both formal and informal conflict and negotiation practices at the interpersonal, intra group and inter group levels are examined from theoretical and practical perspectives. Particular emphasis is placed on understanding and dealing with conflict from a "conflict management" viewpoint wherein conflict is viewed as having the potential for positive and negative individual/organizational consequences. A significant portion of the course is devoted to the development of conflict management and negotiation skills.
Prerequisite: BHR 221

BHR 317 Organizational Dynamics 3-3-0
This course focuses on organizational and behavioural theories applied to organizations, with an emphasis on those practices that are recognized through research for their effectiveness. Students will specifically examine how workers perceptions, attitudes, behaviours, and experiences come together to play a vital role in an organizations day-to-day functioning and its overall success. In addition to understanding the theories and managerial practices, this course will give students some insight into their own behaviours as members of an organization.
Prerequisite: BHR 221

BHR 321 Organization Theory 3-3-0
Organizations, the dominant form of institution in our society, are a fundamental part of our existence, present in all forms of contemporary life. It is the purpose of this course to study the design and structure of organizations.
The subject is approached from both a theoretical and strategic perspective. It also examines how organizations can be structured and designed to facilitate goal achievement and to improve effectiveness.
Prerequisite: BHR 221

BHR 325 Topics in Human Resource Management 3-3-0
The course will present selected topics of current interest at an advanced undergraduate level. Topics covered may vary from year to year. Subject matter may reflect current research interests of faculty members. This course should be of particular interest to those expecting to pursue graduate studies in Human Resource Management and related fields.
Prerequisite: BHR 224

BHR 326 Personnel Recruitment and Selection 3-3-0
This course introduces students to the theory and practices of personnel recruitment and selection. In addition to critically reviewing the various recruitment and selection strategies used by organizations, students will be exposed to the technical and theoretical underpinnings of the field (e.g., Validity; Reliability; Criteria Measures). The course will cover selection and recruitment issues as they relate to the Canadian legal framework.
Prerequisites: BHR 224, BMA141 or PMA260

BHR 328 Occupational Health, Safety, and Wellness 3-3-0
This course is designed to provide students with an introduction to the management of health and safety in the workplace. The course first examines the legislative context, and the hard and soft cost implications of effective health and safety programs. In this context, best practices in terms of occupational hygiene, safety, ergonomics, and workplace wellness are explored. Related topics such as accident investigation, workplace safety and insurance, and occupational disability management are also discussed.
Prerequisite: BHR 221

BHR 330 International Human Resources 3-3-0
Globalization has compelled organizations to increasingly deal with a diversified workforce, a workforce with different cultural values. As well these organizations are required to meet different human resource regulations imposed by host governments and labour unions. They are required to coordinate and integrate their global human resource practices. The objective of the course is to provide students with the knowledge, skills and abilities necessary to manage human resources in global organizations. The course includes discussion of the HR challenges in multinational companies, the HR functions of recruitment, selection, compensation, training and development, cross cultural performance evaluation, as well as host country industrial relations.
Prerequisites: BMG 215 and BHR 224

BHR 333 Employment Law 3-3-0
This course is designed to provide students with an understanding of the key statutes, case law, and adjudicative processes in employment law. Whereas students will be introduced to the theory of public law and administrative tribunals, emphasis will be placed on the practical implications of the legal rights and obligations of the workplace parties. An emphasis is placed on the contract of employment and the duty to accommodate. Other topics include the law of the following: human rights; employment standards; occupational health and safety; workplace accident insurance; pay equity; and, employment equity.
Prerequisite: BHR 224

BHR 334 Administering the Collective Agreement 3-3-0
The collective agreement constitutes the negotiated terms and conditions of employment between management and the union. Through an integration of theory and practice, students gain an understanding of the major substantive and procedural issues in administering a collective agreement. An emphasis is placed on dispute resolution from the initial stages of a grievance through to labour arbitration.
Prerequisites: BHR 224 or POL 214

BUSINESS MATHEMATICS COURSES

BMA 140ab Statistical Analysis for Business Decisions I 3-3-0
Data summarization: frequency distributions, measures of central tendency and variability; probability; introduction to statistical decision analysis; discrete probability distributions: binomial, Poisson probability distributions; continuous probability distributions: normal, uniform and exponential probability distributions.
Prerequisite: MAT 196
This course is not open to students with credit for EMA 140.

BMA 141ab Statistical Analysis for Business Decisions II 3-3-0
Sampling methods and sampling distributions; statistical inference; estimation and hypothesis testing; simple linear regression and correlation; multiple linear regression; chi-square tests for independence and goodness-of-fit; introduction to analysis of variance.
Prerequisite: MAT 197, BMA 140
This course is not open to students with credit for EMA 141.

BUSINESS MANAGEMENT COURSES

BMG 112ab Management Theory & Practice 3-3-0
This course serves as an introduction to the basic theory, science and practice of management. It views management as a process, stressing the basic processes of managerial planning, organizing, controlling and leading. The material is presented from a theoretical or formal point of view but with emphasis on practical examples.

BMG 215ab Introduction to International Business 3-3-0
This introductory course is designed to expose the student to the international business environment and its current patterns. The major theories of international business transactions are examined including the critical institutions that influence and facilitate international trade. These dynamic factors as well as the pressures of globalization are reviewed in the context of overall corporate policy. The course also briefly develops the important international issues within the framework of the various functional disciplines of management.
Prerequisites: BMK 211, BMG 112

BMG 221a Business Law 3-3-0
In addition to the fundamentals of basic contract law, students will be introduced to a number of legal issues affecting contemporary business including: competition policy, environmental law, securities legislation, fiduciary responsibilities, property law, professional liability and consumer protection.

BMG 222b International Business Law 3-3-0
This course is designed to give students a practical knowledge of the legal aspects of engaging in international business. Students will examine major public trade agreements that have a direct effect on international business, such as GATT and W.T.O., The New York Convention (arbitration), The Vienna Convention (International Sale of Goods), NAFTA, and the European Common Market. The practical aspects of international business will be covered in detail. Notably, the following topics shall be studied; the formation of the contract, conduct of business, the carriage of goods, insurance, payment, financing and the resolution of disputes.
Prerequisite: BMG 215

BMG 230 Business Research Methods 3-3-0
The course focuses on the analysis of actual problems in organizations and the use of research in problem solving. This encompasses the understanding and application of appropriate research methodologies.
Prerequisite: BMA 141

BMG 310 Managing the Family Enterprise 3-3-0
This is a foundational course on managing the family enterprise and has four basic objectives: Strengthening awareness of the significance, diversity and complexity of family businesses; developing an understanding of the unique and fascinating challenges facing both family businesses and business families; enhancing the appreciating of the different perspectives of various stakeholders associated with family businesses; building knowledge of the managerial and governance practices that can help improve the effectiveness and longevity of family firms.
Prerequisite: BMG 112

BMG 311ab Business Policy and Strategic Management 3-3-0
The objective of this course is to introduce students who have completed their B.B.A. core courses to the business policy and strategic management areas. This course attempts, through the uses of cases, readings and lectures, to provide an awareness of overall organizational goals, strategies and environmental relationships. Where possible, the course utilizes knowledge gained in other areas of the B.B.A. program.
Prerequisite: All other Required Core courses

BMG 312 Competitiveness 3-3-0
The objective of this course is to provide students, who have completed three credits of Business Policy, with an opportunity to examine in greater depth a number of important managerial issues relating to sustaining a competitive advantage. The course will examine competitiveness on various levels of aggregation: national, industry, company and individual.
Prerequisite: BMG 311 or permission of instructor.

BMG 315 International Management 3-3-0
The course is designed to further develop the students' understanding of the international business environment. The course reviews the global competitive forces affecting the internationalization process including the decision to expand abroad and the various modes for foreign market entry i.e. licensing, joint ventures and international alliances. Other topics include various aspects of international control, organizational structure and foreign subsidiary issues. The course is developed around the case study method.
Prerequisite: BMG 215

BMG 322 Change Management 3-3-0
This course explores the process of change within organizations and the management of that process. Topics include the forces that create and inhibit change, decisions about what needs to be changed, and the techniques to implement and sustain change. The role of the change agent will also be examined.
Prerequisite: BHR 221
Note: It is recommended that students take this course in their last 30 credits.

BMG 323 Interpersonal Skills 3-3-0
Studies consistently show that good "interpersonal skills are critical to managerial success." Although individuals differ in their basic characteristics, personalities, and competencies, better interpersonal skills can be learned. This course uses both conceptual and experiential approaches to focus on key interpersonal skills of communication, conflict management, and leadership, within a team setting.
Prerequisite: BHR 221

BMG 324 Management of Innovation 3-3-0
The course is designed to introduce students to the innovation process, the management of the innovation process within the organization, and the role and treatment of innovation in the Canadian context.
Prerequisite: BHR 221

BMG 325 Leadership in a Multicultural World 3-3-0
Whether at home or abroad, the business world is becoming increasingly multicultural. Leaders must foster excellence in their diverse workforce by displaying cultural skills. This course begins by taking an in-depth look at main leadership theories while reflecting upon their relevance for a variety of sub-cultures as well as within different international contexts. Ultimately, we introduce some of the current literature on the transferable skills required for successful global leaders. Accordingly, we seek to develop students' cultural intelligence and prepare them for multicultural leadership applications.
Prerequisites: BMG 112, BHR 221

BMG 351ab Independent Studies 3-3-0
Proposals for independent studies should be submitted to the faculty member who is to supervise the project. All such studies must be approved by the Department.

BMG 352 Honours Project 6-3-0
The Honours project will be taken by all students accepted by the Department into the BBA Honours program. The student will select a topic in consultation with a professor in the concentration area. The completed project will be reviewed by three professors, two of which must be in the area, and be subject to an oral defence.
Prerequisite: acceptance in the Honours program

BMG 391 Co-operative Placement I 3-0-0
Students will integrate theory and practice through the analysis of an issue, opportunity or problem in some way related to the student's work placement.
Prerequisite: Admission to the Co-operative Education Program

BMG 392 Co-operative Placement II 3-0-0
Students will integrate theory and practice through the analysis of an issue, opportunity or problem in some way related to the student's work placement
Prerequisite: BMG 391

BMG 393 Co-operative Placement III 3-0-0
Students will integrate theory and practice through the analysis of an issue, opportunity or problem in some way related to the student's work placement.
Prerequisite: BMG 392

BPH 240ab Business and Professional Ethics 3-3-0
An examination of ethical issues and responsibilities in the field of business, surveying contemporary and traditional ethical theory and undertaking case study of contemporary issues.
Prerequisite: Students must have completed a minimum of 30 credits at Bishop's University.
Note: This course is cross listed as PHI 240. Students who receive credit for BPH 240 cannot receive credit for PHI 240.

BUSINESS ENTREPRENEURSHIP COURSES

BMG 214ab Introduction to Entrepreneurship: New Venture Creation 3-3-0
An introduction to thinking entrepreneurially, thinking how to pursue your goals and opportunities by "creating something new from little". The course is designed to help students pursue their goals through entrepreneurship. Topics include opportunity identification, financing your goal, and venture generation.
Note: This course is open to all Bishop's University students.

BMG 318 The Successful New Venture: Feasibility Analysis and the Management of Risk 3-3-0
Students will be introduced to the process of early stage business growth planning and feasibility. Students will work on a team project to apply analysis tools and recommendations in a "live" entrepreneurial business situation with a local business. The team will be coached throughout the process and present their findings and recommendations to the entrepreneur. The outcome for the student team is the understanding of the true entrepreneurial challenge and reality. Field work is supplemented by classroom lectures that further enhance the students' grasp of small business development
Prerequisite: BMG 214

BMG 320 Topics in Entrepreneurship 3-3-0
The course will present topics of current interest in the area of small business and entrepreneurship. Topics covered may vary from year to year and will be based on the expertise and interests of faculty members. This course should be of particular interest to those wishing to pursue small business and entrepreneurial activities of their own.
Prerequisite: BMG 214

MARKETING COURSES

BMK 211ab Marketing Management 3-3-0
Introduction to the nature of marketing in our competitive business environment. The main emphasis of the course revolves around a close examination of the "marketing mix" (product, price, place and promotion) in a managerial setting, and interpretation of market forces and opportunities.

BMK 214ab Consumer Behavior 3-3-0
To understand how consumers and organizations interact and the processes that take place as part of this exchange. The main emphasis of this class is on how consumers and organizations drive change and the impact of these changes on both a micro and macro level. In addition, a secondary focus examines the process by which consumers and organizations consume/deliver products and services in order to understand the evolution of this process from both a managerial and global perspective.
Prerequisite: BMK 211

BMK 321 Marketing Research 3-3-0
The course focuses on the analytical techniques used to interpret data acquired using research techniques discussed in BMG 230. The emphasis in the course is on interpretation of results of marketing research and the use of such information to facilitate strategic marketing decision making.
Prerequisite: BMK 211, BMK 214, BMG 230

BMK 323 Marketing Communications 3-3-0
This course will examine the theory and techniques applicable to all the major marketing communication functions: advertising, direct marketing, sales promotions, public relations, and personal selling. It will provide a knowledge base that will allow students to research and evaluate a company's marketing and promotional situation and use this information in developing effective communication strategies and programs.
Prerequisite: BMK 211, BMK 214

BMK 332 Marketing Channels 3-3-0
This course views marketing channels as a key strategic component of the marketing mix and builds an understanding of how the firm can best maximize its position with respect to its environment. Key concepts include the types of participants in marketing channels, channel structures, functions and flows, and the various behavioural processes which exist. The course examines how the firm can best maximize its strategy to influence these factors through strategic channel design, building good networks and alliances and, finally, by understanding how to motivate members of the channel.
Prerequisite: BMK 211, BMK 214

BMK 340 Product Strategy and Innovation 3-3-0
This course focuses on the nature of the decisions and actions taken by firms concerning innovation with respect to their products and services. Topics covered will include innovation and R&D management, managing knowledge and networks, and the new product development process. The course will expose students to the contemporary challenges encountered by innovative firms in developing and launching new products and services, and the strategies which are used by those firms in building and defending brand equity throughout the product life cycle.
Prerequisite: BMK 211, BMK 214

BMK 350 Marketing Strategies for Environment Sustainability 3-3-0
This course aims to provide a forum for students to consider innovative approaches to advancing environmental sustainability through the marketing function of organizations. The course is designed to help students build effective strategies for gaining competitive advantage through environmentally sustainable practices which need to be built into the core areas of strategic marketing: product and process development, design of the supply chain, communications and pricing. In addition, the course will help students understand the publics which need to be involved and the macro factors which need to be considered in order for such strategies to be effective.
Prerequisites: BMK 211, BMK 214

BMK 354 Topics in Marketing 3-3-0
The course will present selected topics of current interest at an advanced undergraduate level. Topics covered may vary from year to year and will reflect current research interests of marketing faculty members.
Prerequisites: BMK 211, BMK 214

BMK 355 Happiness Marketing 3-3-0
The course discusses practical applications of positive psychology in marketing. It is designed to explore why and how positive psychology can benefit both marketers and consumers. Backed up by evidence-based scientific research findings, it aims to help students understand how to be a happier person, a happier consumer, and a better marketer who is able to enhance consumers' well-being. The course will cover topics on hedonism, experientialism, materialism, consumerism etc.
Prerequisites: BMK 211, BMK 214

BMK 362 Sport Marketing 3-3-0
This course will illuminate the theoretical underpinnings and practical applications of marketing strategies to collegiate and professional sport, special events, international sport, broadcasting, facility management, and the sporting goods industry. The course is designed to allow students an opportunity to apply key marketing concepts and strategies within various settings in order to garner a better understanding of both participant and spectator markets.
Prerequisite: BMK 211, BMK 214

BMK 371 Industrial Marketing Strategy 3-3-0
This course is designed to help students understand the complexities and unique challenges faced by marketing managers and top management in their efforts to harmonize the organization's objectives, capabilities, and resources with marketplace needs and opportunities, in the specific case of industrial or business-to-business marketing. Particular emphasis is placed on high technology and dynamic environments which drive specific industries that play key roles in today's society including, but not limited to, biopharmaceuticals, nanotechnology, integrated networks and energy.
Prerequisite: BMK 211, BMK 214

BMK 372 International Marketing Strategy 3-3-0
The focus of this course is primarily on the formation or revision of strategies related to consumer and competitive analyses in international markets. Exploration and understanding of international markets will be facilitated utilizing a social, legal, economic, political and technological framework. This information will be used jointly with competitive and industry scanning to forecast, segment, position and target within international markets and to highlight the inherent challenges of international market research. Strategic decisions faced by students assuming the role of marketing managers include channel analysis and deployment (modes of new international market entry, logistics), in addition to the challenges of pricing, promotion and product development on an international scale.
Prerequisite: BMK 211, BMK 214, BMG 215

BMK 381 Marketing Policies 3-3-0
This course integrates the marketing elements in an overall business approach and is designed for graduating students in a marketing stream. Special consideration will be given to the playing of a realistic marketing simulation game.
Prerequisites: BMK 211, BMK 214

MANAGEMENT SCIENCE COURSES

BMS 231ab Operations Management 3-3-0
This course views the management of operations as the design, management and control of business processes. The course introduces the decisions and trade-offs associated with production of goods and services. Topics include: strategy in operations and supply chain, process design and selection for manufacturing and services, capacity planning, six-sigma quality, lean manufacturing, inventory management, aggregate sales and operations planning, MRP/JIT, and scheduling operations.
Prerequisite: BMA 141

BMS 303 Forecasting Techniques 3-3-0
This course introduces various forecasting techniques used in the business world. Computers are used to apply and interpret the forecasting information.
Prerequisite: BMS 231

BMS 325 Operations Research 3-3-0

This course introduces more concepts and applications of quantitative management techniques not covered in BMS 231. Topics to be covered are: linear programming: the simplex method; simplex-based sensitivity analysis and duality; integer programming; introduction to dynamic programming; queuing models; and Markov processes. Computer programs are available for students to experiment with specific techniques.

Prerequisite: BMS 231

BMS 332 Supply-Chain Management 3-3-0

The main purpose of the course is to learn how models can be effectively constructed and applied to supply-chain planning problems. Specific topics include: Motivation for using models to analyze supply chain problems with particular attention to developments in Information Technology, Linear and mixed Integer programming models, applications of modelling systems to strategic, tactical, and operational supply chain problems. The perspective is the resource-view of the firm, a new paradigm for strategic planning.

Prerequisite: BMS 231

BMS 333 Purchasing Management 3-3-0

In today's competitive business climate, companies with effective procurement strategies are beginning to separate themselves from the competition. Increasingly companies are outsourcing their production; as a result there is a transformation from a manufacturing to service based economy. This course brings together the fields' tools and latest advances, and gives the students and professionals a comprehensive framework for innovative procurement- lowering costs, efficient logistics, quality testing, warehousing, improving efficiency, eliminating non-value added activities and optimizing the purchase order function.

Prerequisite: BMS 231

The School of Education

Teacher education has been an important part of Bishop's tradition since lectures were first delivered to seven aspiring teachers in 1898. Today, graduates are teaching in all parts of Canada, in the United States and overseas but special emphasis is given to preparing students to teach in English schools in the province of Quebec.

The Bishop's School of Education offers a two-step track leading to teacher certification as well as graduate programs for practicing educators.

Mission Statement

As a teaching and learning institution, the Bishop's School of Education, in collaboration with the greater educational community, is dedicated to developing reflective and exemplary educators. Graduates of the Bachelor of Education program will be prepared to assume leadership roles in education as a result of both a theory based and a practice-oriented course of studies founded on the principles of social responsibility and respect for individual dignity.

General Information

Undergraduate Studies

The first step is an undergraduate program (three years for Quebec students or four years for students from outside Quebec) which includes two options:

- preparation for teaching at the elementary level (Elementary Teacher Education Program) resulting in a B.A. in Educational Studies
- preparation for teaching at the secondary level (Secondary Teacher Education Program) resulting in a B.A. or B.Sc. with a Double Major: Education and a teaching discipline.

Students in both secondary and elementary programs are required to pass the **English Exam for Teacher Certification** (EETC) approved by the Ministère de l'Éducation, du Loisir et du Sport prior to the third-year practicum. Students in the secondary program in the French or French/Spanish profile are required to pass the **Test de certification en français écrit pour l'enseignement** (TECFÉE) approved by the Ministère de l'Éducation, du Loisir et du Sport. Success on this test is a requirement for progression through the program. Information about the cost and the procedures for this test are available from the School of Education.

The second step is a one-year, 36-credit Bachelor of Education program which, upon successful completion, results in a recommendation to the Ministère de l'Éducation, du Loisir et du Sport for teacher certification in the Province of Quebec. Prior to certification, students will be subject to a check on their judicial background by the Ministère de l'Éducation, du Loisir et du Sport.

Students who have completed an initial degree in a discipline other than Education either at Bishop's or another university requesting entry into any program may require at least two to three years to complete the course of studies, depending on their academic record.

Students wishing to follow degree-credit programs in Education must obtain permission to enroll from the Admissions Office of the University.

Admission to the second step, the Bachelor of Education program, is granted by the School of Education according to their established criteria.

Application information as well as admission and program criteria are listed in the Admission and Registration section at the beginning of this Calendar. Please note that the School of Education does not normally admit students in the Winter semester.

Graduate Studies

Certified teachers, educational administrators and those with a first undergraduate degree may make application to graduate programs leading to a Master of Education in Educational Leadership, Curriculum Studies or Art Education. (A Master of Arts in Education is offered on demand.)

Requirements for entrance into graduate programs in Education at Bishop's University are as follows.

Applicants for the M.A. and M.Ed. Concentrations in Curriculum Studies and Educational Leadership must:

- have completed a B.Ed. or equivalent at a recognized university with an average of at least 75%;
- normally have at least two years of relevant educational experience (teaching or related professional experience)

Applicants for the M.Ed. in Art Education must:

- have completed a relevant undergraduate degree at a recognized university with an average of at least 75%;
- normally have at least two years of related professional experience

Specific requirements for M.A. and M.Ed.

Students must submit a one-page description of their research interests, including area of interest, initial research questions, approach (e.g. case study, classroom study), possible resources required (e.g. access to specialized computer technologies, special schools and/or populations), and an approximate time line for completing the program. Students in Art Education must also submit a representative selection of recent art work.

Because the resources of the School of Education are limited, potential students should be advised that the School reserves the right to refuse admittance to a student whose research interests do not coincide with those of existing faculty for supervision purposes, or if the resources required are not readily accessible.

It is recommended that students complete the program within six years. After six years all students who have not completed the program will be required to meet with the Dean of the School of Education or the Graduate Program Committee to reassess their progress.

Students who have not registered for a course or for their Exit Project or thesis for two years will be withdrawn from the program and must reapply.

Students who are registered but inactive for a period of three years will be removed from the program.

Application information and admission and program criteria for the graduate programs in Education are listed in the Admissions and Registration section of this Calendar.

Costs

In addition to the costs listed in the Fees section of this Calendar, students are responsible for all travel and accommodation costs related to the required student teaching practica in the Elementary Teacher Education Program, Secondary Teacher Education Program or Bachelor of Education degree.

General Regulations

1. Academic Standing for programs in Education:

Notwithstanding the University regulations on Academic Standing, the School of Education has its own regulations on Maintenance of Good Standing.

B.A. or B.Sc. Double Majors, B.A. in Educational Studies

Students entering the first step of the program must maintain a cumulative average of 70% or more to remain in good standing. Once students have completed two academic semesters, their averages will be calculated on all courses attempted. Failures will be included in the calculation of this average. If a failed course is repeated, or if a passed course is repeated to achieve a higher mark, the second attempt in either case will be used in the cumulative average.

After two semesters, students with cumulative averages less than 50% must withdraw from the program; those with cumulative averages between 50% and 69% will be permitted to remain in the Education program for one semester on probation in which they must improve their cumulative average to 70%. Students who do not achieve that standard will not be eligible to continue in the Education programs at Bishop's University. Students have the right to appeal this decision to the Review Committee of the School of Education.

Students who fail to maintain good standing in the School of Education will be required to withdraw from the Education program and will not be eligible to transfer back in to an Education program. They must make a choice of an alternate degree program at the university by the end of two consecutive semesters following their withdrawal. Should they fail to do so or to be accepted into an alternate program, they will not be permitted to register as full-time students in the next semester.

Bachelor of Education

Students applying to the Bachelor of Education program after their B.A. or B.Sc. require a cumulative average of 70% or more.

Students in the B.Ed. program must maintain a cumulative average of 70% or more and have successfully completed the required practicum components in order to graduate with a B.Ed.

** A student who fails to maintain a cumulative average of 70% prior to the final practicum will be compelled to withdraw from the Bachelor of Education program and will not be permitted to register for the final practicum.*

2. Brevet d'enseignement (Teaching Certificate):

Students who have successfully completed all academic and practicum requirements of their program will be eligible to apply for the Quebec Brevet d'enseignement (Teaching Certificate).

The Ministère de l'Éducation, du Loisir et du Sport requires a Declaration concerning a student's judicial record prior to certification.

3. Practica (Student Teaching)

Students must successfully complete the requirements of all practicum components in order to complete the B.Ed. with a recommendation to the Ministère de l'Éducation, du Loisir et du Sport of Quebec for the "brevet d'enseignement". The practicum components are evaluated as follows:

a. The Introduction to Professional Practice (EDU 115 / EDU 116): numerical grade
b. The Reflective Practicum (EDU 215 / EDU 216): (P) pass or (F) fail.
c. The Professional Practice Practicum (EDU 328 / EDU 329): (P) pass or (F) fail (Access to the third-year practicum is dependent on successful completion of the English Exam for Teacher Certification.)
d. The Internship (EDU 428 / EDU 429): (P) pass or (F) fail.

Students completing the Introduction to Professional Practice (EDU 115 / EDU 116), Reflective Practicum (EDU 215 / EDU 216), and Professional Practice (EDU 328 / EDU 329) practicum and receiving a failing numerical grade or grade of F, may only be permitted to continue in their School of Education program with the School's approval. In the case of a failure in the Internship (EDU 428 / EDU 429), the student must withdraw from the Bachelor of Education program.

Students removed from any practicum course before its completion as a result of an unsatisfactory report submitted by an associate teacher, school principal or university supervisor risk being withdrawn from the program. Final decisions regarding removal from the program rest with the School of Education. Cases of this kind will be referred to the School's Review Committee for a decision regarding continuation in the program.

Placements are made in schools throughout the province according to criteria established by the School of Education. Student teachers may have additional travel and accommodation costs during a practicum.

Further information and regulations concerning Practice Teaching are contained in the Practice Teaching Handbook.

4. Transfer Credits

Students may obtain advanced credits for courses which meet the teaching subject requirements and for courses which have appropriate content and meet program requirements.

5. Residency Requirements

Students must normally complete a minimum of 36 credits in Education at Bishop's University as students in the B.Ed. program, which includes the practicum.

6. Distinctions

The notation "with Distinction" will appear on the transcript of students who graduate with a cumulative average of 80% or more and is only available for first degree students. To be awarded a

degree with distinction, students must not only achieve first class academic standing in their courses, (cumulative average of 80% or more) but must also perform at a highly successful level in all practicum components as evaluated by the Dean of the School of Education in consultation with the Director of Practice Teaching and faculty members who have supervised the student's practicum sessions. The "with distinction" designation cannot be applied to the B.Ed. degree.

7. Review Committee

Students encountering difficulty in practicum placements or in academic courses may be required to meet with the Review Committee of the School of Education for recommendations or decisions regarding their situation.

Secondary Teacher Education Program

The Secondary Teacher Education Program at Bishop's University is a two step program leading to two degrees, a Bachelor of Arts (B.A.) or a Bachelor of Sciences (B.Sc.) with a Double Major (Education and a teaching discipline) and a Bachelor of Education (B.Ed.). This combination of degrees is required in order to be eligible for a teaching permit or "brevet d'enseignement."

Step 1

Students must choose from one of the following twelve profiles: Mathematics, English, English Second Language Teaching, Social Studies, a Science Teaching Major (one of Biology, Chemistry or Physics), French, French/Spanish, Fine Arts, Drama and Music.

The first degree, the BA or BSc, is a 123-credit program with a Double Major in Secondary Education and one of the above profiles. This degree may be completed on a part time basis.

Students entering with completed CEGEP (Diplôme d'études collégiales) will receive 30 advanced credits to bring the number of credits to complete to 93 credits for the degree.

Step 2

The second degree, the B.Ed., is a 36-credit program that must be completed on a full time basis and begins in the fall semester only.

Specific Profiles

Students must choose from one of the following twelve profiles for the initial degree of B.A. or B.Sc. Please consult the School of Education for further information and for a list of the specific required courses for each of the profiles. Requirements within each profile are subject to change in accordance with stipulations of the Ministère de l'Éducation, du Loisir et du Sport.

Major in Secondary Education

Major in Secondary Education – Courses

EDU 102 Philosophy of Education OR
EDU 103 History of Education ..... 3 credits
EDU 200 Orientation to Secondary Teaching ..... 3 credits
EDU 275 Managing Classrooms and Student Behaviours... ..... 3 credits
EDU 285 The Reading Process ..... 3 credits
EDU 301 Educational Psychology ..... 3 credits

One of:

EDU 211 Introduction to Young Adult Literature and Texts "Beyond the Canon"
OR
EDU 220 Linguistic Diversity
OR
EDU 303/SOC 299 Sociology of Education
OR
EDU 204 Indigenous Education
OR
SLP 399 Situated Learning and Praxis ..... 3 credits

One of:

EDU 305 Social Justice and Anti-Discrimination Education .... 3 credits
OR
EDU 205 Education, Colonialism and De-Colonization

EDU 309 Effective Teaching Methods ..... 3 credits
EDU 322 Integrating Technology in the Classroom... 3 credits
EDU 406 Student Centered Evaluation ..... 3 credits

30 credits

Additional courses in Education for Fine Arts, Music, and Drama profiles:

EDU 310 Kindergarten and Elementary Curriculum..... 3 credits
EDU 421 Methods in the Teaching of Language Arts I..... 3 credits
EDU 425 Methods in the Teaching of Creative Arts ..... 3 credits

Practicum Requirements

EDU 115 Introduction to Professional Practice 3 credits
with co-requisite ILT 101 Information Literacy Critical Thinking Lab (1 credit)
English Exam for Teacher Certification
EDU 215 Reflective Practicum – Secondary (full Year) 6 credits
with co-requisite
EDL 222 Professional Seminar I (1 credit)
EDU 329 Professional Practice ..... 6 credits
with co-requisite
EDL 333 Professional Seminar II (1 credit)

15 credits

The following courses must be completed during the last winter semester of your program: EDU 275, 301, 309, and 406 and EDU 329 Professional Practice (6-week practicum).

B.A. Double Major Mathematics and Secondary Education

48 credits Major in Mathematics

Students may complete a B.Sc. Double Major Mathematics and Secondary Education by taking additional courses. Details may be obtained from the Mathematics Department

Required courses

MAT 200 Introduction to Discrete Mathematics ..3 credits
MAT 206 Advanced Calculus 1 ..... 3 credits
MAT 207 Advanced Calculus 11..... 3 credits
MAT 108 Matrix Algebra..... 3 credits
MAT 209 Linear Algebra ..... 3 credits
MAT 110 Excursions in Modern Mathematics ..... 3 credits

MAT 310 Ordinary Differential Equations .....3 credits
MAT 313 Introduction to Probability .....3 credits
MAT 314 Introduction to Mathematical Statistics....3 credits
MAT 315 Real Analysis 1 .....3 credits
MAT 322 Introduction to Modern Algebra 1 .....3 credits
Plus 12 credits from any MAT 100 level .....12 credits
Plus 3 credits from MAT 200 level .....3 credits

Total of credits for the Major in Mathematics: 48 credits

45 credits Major in Secondary Education *(see list above)*

B.A. Double Major English and Secondary Education

48 credits Major in English

ENG 105 – Approaches to Poetry .....3 credits
ENG 106 – Approaches to Literary Theory .....3 credits
ENG 112 – English Literary Tradition:
The Middle Ages and the Renaissance.....3 credits
ENG 113 – English Literary Tradition II:
The Eighteen Century to the Present.....3 credits
one of ENG 110 - English Writers of Quebec **OR**
ENG 111 – Canadian Short Story .....3 credits
one of: ENG 123, ENG 228, ENG 358, **OR**
ENG 375 .....3 credits
one of: ENG 223, ENG 224 **OR** DRA 222.....3 credits
one of: ENG 252, ENG 253, ENG 275, ENG 352,
ENG 358, **OR** ENG 359 .....3 credits
one of: ENG 200, ENG 201 **OR** ELA 201.....3 credits
one of: ENG 210, ENG 211 **OR** EDU 211 .....3 credits
one of: ENG 233, ENG 234, ENG 235, **OR**
ENG 239.....3 credits

33 credits

Plus 15 credits (5 courses) in English, 12 credits (4 courses) of which must be at the 200 level or above. ....15 credits

Total of credits for English Major: 48 credits

45 credits Major in Secondary Education *(see list above)*

B.A. Double Major Teaching English as a Second Language and Secondary Education

EDU 105 Introduction to Linguistics for Language Teaching .....3 credits
EDU 206 Perspectives on Second Language Acquisition .....3 credits
EDU 308 Teaching English Grammar .....3 credits
EDU 207 Teaching Young Second Language Learners..... 3 credits
EDU 307 Literature and Language Teaching .....3 credits
ELA 116 Effective Writing .....3 credits
EDU 208 Drama Techniques for Language Teaching ...3 credits
EDU 209 Oral Communication .....3 credits
ENG 210 Children's Literature .....3 credits
EDU 210 Critical Pedagogical Orientation to Second Language Teaching .....3 credits

Two of: (6 credits)
ENG 102, ENG 104, ENG 105, ENG 110, ENG 111

Two of: (6 credits)
ENG 200, ENG 201, ENG 219, ENG 236, ENG 257, ENG 275, ENG 285, ENG 290, ENG 296

One of: (3 credits)
ENG 278, ENG 280, ENG 281, ENG 282, ENG 283 , ENG 284, ENG 288 , ENG 294, ENG 297

One of: (3 credits)
EDU 324 Teaching English to Adults .....3 credits
EDU 325 Selected Topics in Teaching ESL .....3 credits
FRA 245 Initiation à la traduction I .....3 credits
PSY 286 Psychology of Language .....3 credits

Total credits of ESL Teaching Major: 48 credits

45 credits Major in Secondary Education *(see list above)*

Minor in the Teaching of English Second Language

This minor provides an opportunity for students to study how second languages are learned and taught, with an introduction to linguistics, second language acquisition research, and second language pedagogy. The Minor in the teaching of English Second Language requires the completion of 24 credits.

This minor includes the 12 credits below:

EDU 105 Introduction to Linguistics for Language Teaching
EDU 206 Perspectives on Second Language Acquisition
EDU 207 Teaching Young Second Language Learners
EDU 210 Critical Pedagogical Orientation to Second Language Teaching

Plus 12 credits from the following list:

EDU 208 Drama Techniques for Language Teaching
EDU 209 Oral Communication
EDU 307 Literature and Language Teaching
EDU 308 Teaching English Grammar
EDU 324 Teaching English to Adults
EDU 325 Selected Topics in Teaching ESL

B.A. Double Major Social Studies and Secondary Education

24 credits in Environmental Studies and Geography

Required courses

ESG 100 Introduction to Environmental Studies...3 credits
ESG 126 Introduction to Human Geography.....3 credits
ESG 127 Introduction to Physical Geography.....3 credits

Three of:

ESG 211, ESG 224, ESG 226, ESG 227, ESG 249, ESG 250, ESG 251, ESG 264, ESG 265, ESG 266 , ESG 267, ESG 268, ESG 269

Two of:

ESG 339, ESG 340, ESG 348, ESG 349, ESG 350, ESG 353, ESG 354, ESG 358, ESG 361, ESG 363, ESG 365, ESG 366, ESG 367

24 credits

24 credits in History including:

Required courses

Two of:

HIS 104 The Development of the West
HIS 105 The 20th Century World
HIS 108 Intro to Indigenous Studies
HIS 109 New World: The Americas to 1850 .....6 credits

Three of:

HIS 207 Canada 1867–1945
HIS 211 Canada Since 1945
HIS 221 Pre-Confederation Canada
HIS 240 Introduction to Public History
HIS 265 Quebec: Political Change and Industrialization 1840–1930
HIS 266 Contemporary Quebec: 1930 to the present .....9 credits
One course in European History at the 200 or 300 level
One course in History of the Developing World at the 200 or 300 level .....6 credits

One of:

HIS 328, HIS 331, HIS 333, HIS 370, HIS 373 **OR** HIS 374

24 credits

Total of credits of Social Studies Major: 48 credits

45 credits Major in Secondary Education *(see list above)*

B.Sc. Science Teaching Major - Biology Concentration and Secondary Education

33 credits Biology plus appropriate labs

BIO 195 Introductory Cellular & Molecular Biology .....3 credits
BIO 205 / BIL 205 Diversity of Life I & Lab .....3 credits / 1 lab credit
BIO 206 / BIL 206 Diversity of Life II & Lab .....3 credits / 1 lab credit
BIO 207 / BIL 207 General Ecology & Lab .....3 credits / 1 lab credit
BIO 131 The Human Body in Health & Disease ...3 credits
OR
BIO 233 / BIL 233 Human Anatomy .3 credits / 1 lab credit
BIO 212 Evolution .....3 credits
BIO 208 / BIL 208 Genetics & Lab ..3 credits / 1 lab credit
BIO 336 Animal Physiology I .....3 credits

3 credits Biochemistry

BCH 210 General Biochemistry .....3 credits

3 credits Physics

PHY 101 Statistical Methods in Exp. Science…...3 credits

Plus six of:

BCH 313 / BCL 313, BCH 383, BIO 327, BIO 394, BIO 337, BIO 331, BIO 329, BIO 442, BIO 332, BIO 428, BIO 433, BIO 349, BIO 352, BIO 358, BIO 359, BIO 365, CHM 111 / CHL 111, ESG 127, EXS 127, PBI 379*, PBI 380*
(Prerequisite PBI 288 – Brain and Behavior I)*

Total of credits of Biology Major: 48 credits

45 credits Major in Secondary Education *(see list above)*

B.Sc. Science Teaching Major - Chemistry Concentration and Secondary Education

24 credits Chemistry plus appropriate labs

CHM 121 Inorganic Chemistry I .....3 credits
CHM 131 / CHL 131 Physical Chemistry I & Lab .....3 credits / 1 lab credit
CHM 141 / CHL 141 Analytical Chemistry & Lab .....3 credits / 1 lab credit
CHM 111 / CHL 111 Organic Chemistry I: Introductory & Lab .....3 credits / 1 lab credit
CHM 211 / CHL 211 Organic Chemistry II: Introductory & Lab.....3 credits / 1 lab credit
CHM 221 / CHL 221 Inorganic Chemistry II & Inorganic Lab .....3 credits 1 lab credit
CHM 231 / CHL 231 Physical Chemistry II & Lab .....3 credits / 1 lab credit
CHM 341 / CHL 341 Principles & Pract. Chemical Spectroscopy & Mass Spectrometry & Lab .....3 credits / 1 lab credit

9 credits Biochemistry plus appropriate labs

BCH 101 Nutrition .....3 credits
Plus 6 credits of BCH or CHM at the 200 level .....6 credits

9 credits Biology plus appropriate labs

BIO 195 Introductory Cellular & Molecular Biology .....3 credits
BIO 207 / BIL 207 General Ecology & Lab .....3 credits 1 lab credit
BIO 208 / BIL 208 Genetics & Lab ...3 credits 1 lab credit

6 credits Physics

PHY 101 Statistical Methods in Exp. Science .....3 credits
PHY 207 Thermal & Fluid Physics .....3 credits

Total credits of Chemistry Major: 48 credits

45 credits Major in Secondary Education *(see list above)*

B.Sc. Science Teaching Major - Physics Concentration and Secondary Education

27 credits Physics plus appropriate labs

PHY 101 Statistical Methods in Experimental Science .....3 credits
PHY 206 / PHL 206 Waves and Optics & Lab .....3 credits / 1 lab credit
PHY 207 Thermal and Fluid Physics .....3 credits
PHY 113 or PHY 214 Intro. to Astronomy/ Astronomy and Astrophysics .....3 credits
PHY 208 Introduction to Mechanics .....3 credits
PHY 319 Electric Circuits and Electronics .....3 credits
PHY 315 Relativity Theory .....3 credits
PHY 361 Quantum Mechanics I .....3 credits
PHY 318 Advanced Mechanics .....3 credits

9 credits Mathematics

MAT 206 Advanced Calculus I .....3 credits
MAT 108 Matrix Algebra .....3 credits
PHY 270 Differential Equations .....3 credits

6 credits Biology

BIO 195 Introductory Cellular & Molecular Biology .....3 credits
BIO207 / BIL207 General Ecology & Lab .....3 credits / 1 lab credit

6 credits Chemistry

CHM 131 / CHL131 Physical Chemistry I & Lab .....3 credits / 1 lab credit
CHM 111 / CHL111 Organic Chemistry I: Introductory & Lab .....3 credits / 1 lab credit

Total credits of Physics Major: 48 credits

45 credits Major in Secondary Education (see list above)

B.A. Double Major French and Secondary Education

Students in the French profile will be required to pass the Ministère de l'Éducation, du Loisir et du Sport approved French test TECFÉE (Test de certification en français écrit pour l'enseignement) prior to the third-year practicum. Success on this test is a requirement for progression through the program. Information about the cost and procedures for this test are available from the School of Education.

48 credits

MLA 101 Issues in Language and Linguistics .....3 credits
FRA 227 Le génie de la langue : stylistique comparée du français et de l'anglais .....3 credits
FRA 228 Practice Makes Perfect : traduction journalistique et publicitaire .....3 credits
OR
FRA 229 Practice Makes Perfect : traduction administrative .....3 credits
FRA 230 Tout est dans la logique : analyse grammaticale et phrase complexe .....3 credits
FRA 315 Pièges et mystères de la langue française I.....3 credits
FRA 316 Pièges et mystères de la langue française II .....3 credits
FRA 353 Littératures migrantes et de la francophonie .....3 credits

N.B. *A maximum of two grammar courses (French as a first language) taken at another university may also normally be recognized.*

Plus:

27 credits in French in agreement with Études françaises et québécoises' regulations.

In order to obtain a B.A. Double Major French and Secondary Education, a student must also attain a Level 5 French.

45 credits Major in Secondary Education *(see list above)*

B.A. Double Major French/Spanish and Secondary Education

Students in the French/Spanish profile are required to pass the Ministère de l'Éducation, du Loisir et du Sport approved French test TECFÉE (Test de certification en français écrit pour l'enseignement) prior to the third-year practicum. Success on this test is a requirement for progression through the program. Information about the cost and procedures for this test are available from the School of Education.

27 credits

MLA 101 Issues in Language and Linguistics.....3 credits
FRA 227 Le génie de la langue : stylistique comparée du français et de l'anglais.....3 credits
FRA 228 Practice Makes Perfect : traduction journalistique et publicitaire .....3 credits
OR
FRA 229 Practice Makes Perfect : traduction administrative .....3 credits
FRA 230 Tout est dans la logique : analyse grammaticale et phrase complexe .....3 credits
FRA 315 Pièges et mystères de la langue française I.....3 credits
FRA 316 Pièges et mystères de la langue française II.....3 credits
FRA 353 Littératures migrantes et de la francophonie .....3 credits

Plus two courses in FRA at the 200 or 300 level (6 credits) OR one 300 level SPA course (3 credits) and one FRA course at the 200 or 300 level (3 credits).

21 credits in Hispanic Studies

SPA 203 Spanish Practice I .....3 credits
SPA 204 Spanish Practice II .....3 credits
SPA 301 Advanced Spanish: Topics and Texts I ...3 credits
SPA 302 Advanced Spanish: Topics and Texts II ..3 credits
SPA 325 Advanced Spanish Grammar .....3 credits
SPA 331 Intro. to Peninsular Literature .....3 credits
SPA 332 Intro. to Spanish American Literature ....3 credits

Total 48 credits

Plus:

45 credits Major in Secondary Education *(see list above)*

Students in the following profiles will take 9 additional credits in Elementary Education.

B.A. Double Major Fine Arts and Education

39 credits Fine Arts (18 credits Art History, 18 credits Studio Art, 3 credits Art Ed.)

Required courses:

FIH 102 Survey of Western Art II .....3 credits
FIH 220 Twentieth-Century Art to the 1960s.....3 credits
FIH 221 Art Since the 1960s.....3 credits
FIH Any art history course.....3 credits
2-300 level art history courses .....6 credits
6 courses in Studio Art .....18 credits
FIN 301 Art Education: Theory and Practice .....3 credits

45 credits Major in Secondary Education *(see list above)*

9 additional credits in Elementary Education (EDU 310, EDU 421 and EDU 425)

B.A. Double Major Drama and Secondary Education

39 credits Drama

Required courses:

DRA 101 Introduction to Technical Theatre .....3 credits
DRA 102 Introduction to Theatre before 1800 .....3 credits
DRA 110 Introduction to Theatre after 1800 .....3 credits
DRA 131 Acting I .....3 credits
DRA 201 Contemporary Canadian Drama .....3 credits
DRA 222 Introduction to Shakespeare .....3 credits

Four of: 12 credits

DRA 132, DRA 160, DRA 233, DRA 234, DRA 246, DRA 250, DRA 251, DRA 331, DRA 332, DRA 341, DRA 342

**Only students who have done Acting I-IV may do the production courses.*

Three of: 9 credits

DRA 211, DRA 212, DRA 230, DRA 300, DRA 301, DRA 302, DRA 315, DRA 322

45 credits Major in Secondary Education *(see list above)*

9 additional credits in Elementary Education (EDU 310, EDU 421 and EDU 425)

B.A. Double Major Music and Secondary Education

39 credits Music

I. Compulsory courses:

Music Theory .....15 credits
MUS 139, MUS 131, MUS 132, MUS 231 and MUS 121, MUS 122, MUS 221

Any course in this category

Musical Literature .....3 credits

Any two courses in this category

Music History.....6 credits

Two complete years of ensemble

Performance .....12 credits
MUS 172 / MUS 173, MUS 272 / MUS 273 Individual Practical Study

II. Music Electives 3 credits

Independent study in instrumental techniques or conducting.....3 credits

45 credits Major in Secondary Education *(see list above)*

9 additional credits in Elementary Education (EDU 310, EDU 421 and EDU 425)

Bachelor of Education Secondary Teacher Education

The required courses are:

EDU 401 Quebec Education Policy and Law.....3 credits
EDU 403 -Readings to Promote Educational Thinking .....3 credits
EDU 407 Individual Differences .....3 credits
EDU 410 Effective Teaching and Evaluation II.....3 credits
EDU 420 Interdisciplinary Teaching and Learning at the Secondary Level .....6 credits
with co-requisite
EDL 444 Professional Seminar III .....(1 credit)
EDU 429 Internship .....15 credits

Plus one of the following according to your teachable discipline:

EDU 411 Methods in Teaching Language Arts Secondary .....3 credits
EDU 416 Methods in the Teaching of Mathematics, Science and Technology .....3 credits
EDU 414 Methods in Teaching Social Sciences Secondary .....3 credits
EDU 415 Methods in Teaching Creative Arts Secondary.....3 credits
EDU 418 Methods in Teaching Second Languages Sec. .....3 credits

For a total of **36 credits**

Elementary Teacher Education Program

The Elementary Teacher Education Program at Bishop's University is a two-step program leading to two degrees, a Bachelor of Arts in Educational Studies and a Bachelor of Education. This combination of degrees is required in order to be eligible for a teaching permit or "brevet d'enseignement." The first degree prepares the student to teach a broad range of subjects in the elementary school curriculum. Students who have completed a previous degree will be required to fulfill the requirements of this program before being eligible for the Bachelor of Education degree. Please note that requirements of this program are subject to change in accordance with stipulations of the Ministère de l'Éducation, du Loisir et du Sport.

B.A. Major in Educational Studies

The compulsory courses in Education are:

EDU 102 Philosophy of Education **OR**
EDU 103 History of Education

EDU 201 Orientation to Elementary Teaching
EDU 202 Teaching Ethics and Religious Culture (Elementary & Secondary)

One of:

EDU 211 Introduction to Young Adult Literature and Texts "Beyond the Canon" **OR**
EDU 220 Linguistic Diversity **OR**
EDU 303 Sociology of Education **OR**
EDU 204 Indigenous Education **OR**
SLP 399 Situated Learning and Praxis

EDU 275 Managing Classrooms and Student Behaviours
EDU 285 The Reading Process
EDU 301 Educational Psychology

EDU 305 Social Justice and Anti-Discrimination Education **OR**
EDU 205 Education, Colonialism and De-Colonization

EDU 309 Effective Teaching Methods
EDU 310 Kindergarten and Elementary Curriculum
EDU 322 Integrating Technology in the Classroom
EDU 406 Student Centered Evaluation
EDU 421 Methods in Teaching Language Arts I
EDU 422 Methods in the Teaching of Mathematics I
EDU 425 Methods in the Teaching of Creative Arts – Elementary

Practicum

EDU 116 Introduction to Professional Practice with co-requisite ILT 101 – Information Literacy Critical Thinking Lab .....(1 credit)
English Exam for Teacher Certification
EDU 216 Reflective Practicum – Elementary with co-requisite EDL 222 Professional Seminar I
EDU 328 Professional Practice with co-requisite EDL 333 Professional Seminar II

The compulsory courses in other disciplines are:

One of: HIS 108 (recommended) **OR** HIS 104 **OR** HIS 109
One of: ESG 126 **OR** ESG 127 **OR** ESG 162 **OR** ESG 100
MAT 100 Excursions in Modern Math
ENG 210 Children's Literature

**PSY 237 Child Development II*

**The Psychology Department normally requires that students take some prerequisite Psychology courses prior to taking the above course.*

Two of:

PHY 113 Introduction to Astronomy **OR**
PHY 111 Physics of Everyday Phenomena

BIO 193 / BIL 193 Introductory Biology + lab
CHM 181 The Chemistry of Everyday Life

One of:

DRA 102, DRA 110, FIS 140, FIS 181, FRA 203, FRA 204, FRA 227, FRA 315, or any course in French or Quebec Civilization or Literature from the French Department, MUS 110, MUS 111, MUS 130, REL 100 or REL 101

Electives:

For Quebec Students .....6 credits
For Out of Province students.....36 credits

The following courses must be completed during the last winter semester of your program: EDU 309, 406, 421 and 422 and EDU 328 – Professional Practice (6-week practicum).

Bachelor of Education
Elementary Teacher Education

The required courses for the Bachelor of Education are:

EDU 401 Quebec Education Policy and Law .....3 credits
EDU 403 Readings to Promote Educational Thinking .....3 credits
EDU 407 Individual Differences .....3 credits
EDU 419 Interdisciplinary Teaching and Integration of Learning at the Elementary Level .....6 credits
With co-requisite
EDL 444 Professional Seminar II.....(1 credit)
EDU 428 Internship .....15 credits
EDU 433 Methods for Social Inquiry and Literacy..3 credits
EDU 434 Methods for Scientific Inquiry and Problem Solving .....3 credits

COURSE DESCRIPTIONS

EDU 102ab Philosophy of Education 3-3-0
The course will focus upon philoso5phical ideas as they are applied to educational problems. Students will undertake a critical inquiry into several philosophical schools of thought with the view of developing a personal philosophy of education. Each school of thought will be examined in the light of its essential elements and basic principles as well as how each has influenced educational theory and practice. Questions of ethics are central to the course.

EDU 103 History of Education 3-3-0
This course will examine education and schooling through a historical perspective. Students will analyze the social, economic, and political trends and themes that have both challenged educational policymakers and impacted the development of modern education systems. Students will engage in historical thinking as a way to contextualize education today.

EDU 105 Introduction to Linguistics for Language Teaching 3-3-0
This course provides the theoretical background in linguistics for teachers of second languages. Topics covered include the major themes in linguistics (phonetics, phonology, morphology, syntax and semantics) that inform the teaching and learning of languages.
Prerequisite: One 100-level course in Education, Sociology, or History

EDU 115 / 116 ab Introduction to Professional Practice 3-3-0
Students will focus on the human and professional elements of teaching in order to identify those personal traits that are characteristic of effective teachers. This course introduces students to the process of reflective practice and to the professional knowledge base that inspires it. The above course components combined with field-based experiences and classroom presentations will help students make informed judgments as to their suitability for the teaching profession.
Co-requisite: ILT 101 - Information Literacy Critical Thinking Lab

ILT 101a Information Literacy and Critical Thinking Lab 1-0-1
The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments, in Education. The course includes the correct use of library resources, including the online catalogue, periodical indexes and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet and the critical evaluation of retrieved resources. Academic integrity, plagiarism and the correct citation of print and online sources are also taught. The course is practical, and students are given the opportunity for hands-on experience in the library's electronic classroom. Taught in conjunction with EDU 115 / EDU 116ab, "Introduction to Professional Practice", students retrieve the resources necessary to complete their assignments for the course. ILT 101 is a required core course.

EDU 200ab Orientation to Secondary Teaching 3-3-0
This course is designed to introduce pre-service teachers to the act and art of teaching at the secondary level. Students will explore areas such as current research on the learning process, teaching for learning, learning communities, evaluating for learning, and the Quebec Education Program. Students will continue the identification process with the teaching profession begun in the EDU 115 course. EDU 200 is a prerequisite for EDU 215 Reflective Practicum – Secondary.
Prerequisite: EDU 115

EDU 201ab Orientation to Elementary Teaching 3-3-0
This course is designed to introduce pre-service teachers to the act and art of teaching at the elementary level. Students will explore areas such as current research on the learning process, teaching for learning, learning communities, evaluating for learning, and the Quebec Education Program. Students will continue the identification process with the teaching profession begun in the EDU 116 course. EDU 201 is a prerequisite for EDU 216 Reflective Practicum - Elementary.
Prerequisite: EDU 116

EDU 202b Teaching Ethics and Religious Culture (Elementary & Secondary) 3-3-0
The purpose of this course is to introduce pre-service teachers to the Ethics and Religious Culture program, first implemented in Quebec schools as of 2008. Principal topics covered will include the familiarization with the manner in which religious and non-religious worldviews can be understood and respected through cultural phenomena and the manner in which ethics can be explored to meet the criteria of "recognizing others" and the "pursuit of the common good". With respect to the progression of learning from elementary to secondary, particular attention will be given to making the theoretical dialogue within this course applicable to the students' teaching context. The pre-service teacher will also be expected to deliberate the professional responsibilities that arise from the shift of confessional schooling, to structures that are entirely non-religious.

EDU 204 Indigenous Education 3-3-0
This course provides opportunities for education candidates to develop a more complex understanding of the social, economic and political contexts that bear on the conditions of First Nations communities in which they may teach. It is structured around engagements with Indigenous peoples, histories, and knowledges, and involves university and field-based experiences. Students will examine exemplary cases and approaches to curriculum planning, extra-curricular programming, pedagogy and relationship-building with First Nations, Inuit and Metis families and communities.

EDU 205 Education, Colonialism and De-Colonization 3-3-0
In this course, we examine the implication of education in ongoing histories of colonialism in Canada. A particular focus will be on the history of residential schools, their continuing legacy as well as what it might look like for educators to take ownership of this history and build conditions for reconciliation between settler Canadians and First Nations, Inuit and Metis. This will involve studying Aboriginal perspectives, goals and approaches to teaching and learning. We will engage with examples of pedagogies aimed at de- colonization for Indigenous and non-Indigenous peoples in Canada. The course aims for students to develop an intersectional analysis and approach to pedagogy.
Prerequisites: One 100-level course in Education, Sociology, or History

EDU 206a Perspectives on Second Language Acquisition 3-3-0
Through this course, students will examine the implications of theories of language acquisition for the teaching and learning of second languages at the elementary, secondary and adult levels. The relevance of past and current research in both first and second language acquisition will be a major topic of discussion.

EDU 207b Teaching Young Second Language Learners 3-3-0
With a focus on young learners and their needs, this course will introduce students to a learner-centered approach to the teaching of a second language. Topics covered include early literacy development and instruction, elementary curriculum, social and cognitive dimensions of learning as well as issues related to bilingualism. Students will explore the roles of a second language teacher in a variety of teaching situations and classroom environments specific to young learners.

EDU 208a Drama Techniques for Language Teaching 3-3-0
This course is an introduction to the creative process of drama.(using role playing, improvisation and theatre games to explore language learning). The focus is on developing one's own creative potential using improvisation, theatre games, movement, voice and play making. Through individual and group work, participants will learn strategies for using drama in the classroom.

EDU 209b Oral Communication 3-3-0
This course will address issues related to the development of listening and speaking skills in second language learners, including those related to pronunciation. In addition, it will focus on varieties of oral communication in different contexts and for different levels and ages of learners.

EDU 210 Critical Pedagogical Orientation to Second Language Teaching 3-3-0
The purpose of this course is to inquire into the socio-political dimension of ESL and other second language teaching and learning. We will examine and challenge the traditional notions of literacy and literacy practices pertaining to second language education. Together we will explore some critical approaches to teaching second languages as well as different classroom strategies and practices that bear a transformative pedagogical orientation.

EDU 211ab Introduction to Young Adult Literature and Texts "Beyond the Canon" 3-3-0
This course is intended for future elementary teachers who wish to better investigate how to evaluate, select and share young adult literature "beyond the canon" through a critical intercultural perspective. In the course, students will examine different genres of literature such as poetry, short stories, plays and novels. Furthermore, students will reconsider the traditional meaning of "text" and examine contemporary texts such as film, television, music lyrics and videos and how and if they play a role in classrooms.

EDU 215f Reflective Practicum - Secondary 6-6-0
This second-year practicum experience involves the integration of theories about teaching and learning with observation and practice in a school classroom. Students are placed in a secondary classroom for half a day each week throughout the year. In addition, they participate in regular seminars to review and refine their approach to teaching through oral and written reflection and synthesis of their learning.
Pre-requisite: EDU 200 Orientation to Secondary Teaching
Co-requisite: EDL 222 Professional Seminar I

EDU 216f Reflective Practicum - Elementary 6-6-0
This second-year practicum experience involves the integration of theories about teaching and learning with observation and practice in a school classroom. Students are placed in an elementary classroom for half a day each week throughout the year. In addition, they participate in regular seminars to review and refine their approach to teaching through oral and written reflection and synthesis of their learning.
Pre-requisite: EDU 201 Orientation to Elementary Teaching
Co-requisite: EDL 222 Professional Seminar I

EDL 222 Professional Seminar I 1-3-0
This course is comprised of 12 hours of preparatory seminars and related activities to enhance the students' experiences in the field. Seminars include guest speakers, discussions and panels; practicum preparation, such as the CAST conference (Collaborative Associate and Student Teacher) is a component of the course. This is a Co-requisite of EDU 215 and EDU 216.
Co-requisites: EDU 215 or EDU 216

EDU 220ab Linguistic Diversity 3-3-0
This course focuses on the teaching of students with diverse language abilities. It examines theoretical perspectives on first and second language acquisition and the relevance of these perspectives to educational practices. Discussion will include examination of the relationship between linguistic diversity and identity construction, the importance of first language maintenance and additive bilingualism. Students will discuss strategies for supporting and integrating linguistically diverse students into content area classes.

EDU 275ab Managing Classrooms and Student Behaviours 3-3-0
This course will deal with the general principles of classroom and behaviour management. Its four goals are the following: to provide future teachers with the knowledge to manage their classrooms effectively; to present different models and theories of classroom management; to identify and discuss specific behaviour problems; to examine how schools attempt to work effectively with difficult students and their parents.

EDU 285ab The Reading Process 3-3-0
The lifelong acquisition of reading skills is complex. Teachers need to understand the integrated language system: oral language (listening and speaking), reading and writing. Designed for teachers, the aim of this course is to learn about the psychological processes involved when we read. Theoretical approaches to language acquisition will be examined. Teaching strategies using multi-modal approaches supporting the development of reading skills will be introduced for various age and educational levels. Issues such as bilingualism, English language learning and cultural differences will be addressed. Reading disabilities affect many learners and impact all subject areas; consequently, knowing how language is acquired will enable teachers to understand the nature of reading disabilities and to learn strategies to meet the needs of all students in an integrated classroom setting.

EDU 301ab Educational Psychology 3-3-0
This course introduces pre-service teachers specializing in elementary and secondary education to the area of Educational Psychology. Educational Psychology prepares the teacher to understand principles of learning/cognition, human development, and motivation and the application of these theories to classroom learning, problem-solving, critical thinking and teaching, design of curricula, learners' with special needs, classroom management, and assessment and evaluation.
Prerequisites: EDU 200 or EDU 201 and EDU 215 or EDU 216 are prerequisites or corequisites with permission.

EDU 303 / SOC 299b Sociology of Education 3-3-0
The purpose of this course is to examine education in Canada from a critical sociological perspective. Education is a major institution in most societies and is a vital part of our social existence. The sociology of education, a subfield of sociology, focuses on the institution of education and the structures, processes and interaction patterns within it. We will look at the educational system as a whole, integrated and dynamic entity. To do so, reference will be made to a variety of sociological studies, but the main perspective is critical.

EDU 305a Social Justice and Anti-Discrimination Education 3-3-0
This course is designed to engage teacher candidates in a critical examination of key concepts and issues in the field of education that help us approach questions of social inequality, identity, difference, pluralism and social justice from a critical historical, philosophical and sociological perspective. Drawing from a range of theoretical and practical as well as multimedia resources, we will try to develop a critical awareness as reflective practitioners in relation to the social forces that influence the teaching-learning process in diverse societies and a globalizing world.

EDU 307a Literature and Language Teaching 3-3-0
This course will explore the use of literature as a basis for the teaching of ESL. Theories regarding the connection between literature and language learning will be introduced, and students will be involved in the construction of classroom learning situations based on poetry, short stories and novels.

EDU 308b Teaching English Grammar 3-3-0
This course is intended to achieve two aims: to provide students with an overview of grammatical issues for learners of English as a second language, and to address the strategies and methods that ESL teachers might adopt to integrate the teaching of grammar into their classrooms. Practice in the effective design of instruction and materials for the teaching of grammar will be significant component of the course.

EDU 309b Effective Teaching Methods 3-3-0
This course will focus on the curriculum process and will examine how teachers and learners participate in the various dimensions of that process. Students will use their prior knowledge and understanding of effective learning in order to generate curricular frameworks to guide their classroom practice. They will design strategies to make student learning more meaningful. The primary goals of this course are to (1) understand the roles of the schools, curricula, teachers and learners in the 21st century, (2) understand several different modes of teaching and how each influences the learners' way of coming to know and (3) understand how to construct and effectively use unit level and lesson level plans.
Prerequisites: EDU 116 and EDU 216 or EDU 115 and EDU 215. Third-year standing or permission of the school.

EDU 310ab Kindergarten and Elementary Curriculum 3-3-0
Students participating in this introductory course will explore the principles and practices which are germane to organizing and operating the classroom for learners in the elementary school classroom. With particular attention given to the Quebec Education Program, they will examine representative primary school curricula emphasizing active and experiential learning, critical thinking, the physical environment, the role of play and a variety of current and age appropriate teaching and learning strategies. Authentic operational components, including criteria for creating and evaluating children's learning, will also be addressed to develop best professional practices.

EDU 322ab Integrating Technology in the Classroom 3-3-0
This course will focus on increasing students' knowledge base of issues, strategies and tools to effectively integrate technology into K-11 classrooms. Students will gain a greater appreciation for the benefits and obstacles teachers face when applying appropriate technology use. Students will learn through readings, in-class discussions, laboratory activities, demonstrations, and other class activities. Hands-on activities and projects will be used to promote learning of the course material: activities will be used to facilitate dialogue; projects will be used to illustrate application and reflection.

EDU 324 Teaching English to Adults 3-3-0
This course will explore the particular needs and challenges of adult learners of English as a Second Language. Students will be connected to local classrooms of adult learners to observe their language learning experience and to consider ways to construct appropriate learning situations for them.

EDU 325 Selected Topics in Teaching ESL 3-3-0
This course is designed to provide opportunities for students to explore recent and/or controversial topics related to second language teaching and learning. Specific topics will vary from year to year so that current issues may be addressed.

EDU 330ab Independent Study in Education 3-3-0
Students in the first degree (BA Educational Studies/Elementary Education or BA/BSc Double Major/Secondary Education) may be granted permission to pursue an independent study project under the guidance of a faculty supervisor on a topic in Education. Topics must be approved by the School of Education.

EDU 401a Quebec Education Policy and Law 3-3-0
Students will have an opportunity to study the development of the Quebec educational system from its early 17th century confessional beginnings to the establishment of the new linguistic structures. Students will explore major educational ideas such as access to education and the growth of professionalism in the system. Legislation and regulations such as the Régime Pédagogique will be examined in the course.

EDU 403a Readings to Promote Educational Thinking 3-3-0
This readings course is intended to encourage student teachers to consider educational issues in profound and critical ways. Drawing from a wide selection of historical and current literature on education, students will produce an academic paper (or alternative assignment) which may be reviewed by their peers for publication in a School of Education collection of student work. The course will be organized around seminar sessions that highlight specific readings as well as group and individual discussions with the professor(s).

EDU 406b Student Centered Evaluation 3-3-0
This course introduces pre-service teachers to the multi-dimensional and complex nature of the evaluation process fundamental to the development and tracking of competency. In this course we will explore and construct a conceptual understanding of evaluation strategies that support student learning and how these strategies can be built into daily practice. We will also construct an understanding of those classroom practices that are required to focus students on expected learning outcomes and determine to what extent these expectations have been met.

EDU 407a Individual Differences 3-3-0
This course focuses on the teaching of students with special needs in inclusionary settings in the school community. Class discussions will centre on issues surrounding inclusion and its implications for teaching adaptations in the classroom and school community. Students will gain an understanding of classroom-based approaches to assessment and instruction that recognize the uniqueness of each student and of the methods and strategies which successfully integrate special populations (including, but not limited to learning disabled, physically challenged, sensory impaired and behavior disordered).

EDU 410 Effective Teaching Methods and Evaluation II 3-3-0
This course will provide secondary education student teachers with an additional exposure to general methods of teaching and enhance their knowledge of student centered evaluation principles and practices.

EDU 411a Methods in the Teaching of Language Arts – Secondary 3-3-0
This course will help to prepare students to teach English Language Arts at the Secondary and Adult Education levels. Students will have the opportunity to work on their own writing skills while learning more about how to encourage secondary and adult learners to improve their abilities to read and communicate orally and in writing. They will become familiar with the QEP curriculum objectives for the English program and will be involved in planning units in assorted texts within the current Secondary English curriculum. Students will be exposed to new trends and appropriate assessment tools through classroom activities and assignments.

EDU 414a Methods in the Teaching of Social Sciences – Secondary 3-3-0
This course focuses on teaching strategies and learning concepts in the social sciences as outlined in the Quebec Education Program. Students will gain an understanding of the general curriculum competencies, objectives and trends as well as of the conceptual base and associated methodologies of the social science disciplines. Students will learn how to design a curriculum resource unit including appropriate tasks and assessment tools. They will also learn how to select as well as create resource materials.

EDU 415a Methods in the Teaching of Creative Arts – Secondary 3-3-0
The class itself models several teaching and learning situations and strategies for both elementary and secondary levels of instruction. Students work in groups, with partners and alone. Peer tutoring is used for part of the creative movement/ dance unit. Students are given the opportunity each semester to talk with an artist currently exhibiting at the art gallery. Students are expected to develop sequential arts-based lessons formally, thematically and experientially, drawing on in-class situations modeled for them. Students are made aware of Howard Gardner's Multiple Intelligences Model and the importance of matching teaching and learning styles.

EDU 416 Methods in Teaching of Mathematics, Science and Technology 3-3-0
This course will focus on approaches for the teaching of Mathematics, Science and Technology while considering the significance of history and culture in the evolution of these fields. Students will learn how to interpret curriculum competencies, objectives and trends, as well as the conceptual bases and associated methodologies of these disciplines. They will also learn how to critically select, design and develop curriculum resource materials and units.

EDU 418a Methods in Teaching Second Languages – Secondary 3-3-0
This course examines recent developments in second language teaching approaches and methods, particularly as they relate to the selection of teaching material, choice of techniques for the second language classrooms and appropriate means of assessment. It includes a brief historical overview of language teaching methods and approaches.

EDU 419f Interdisciplinary Teaching and Integration of Learning at the Elementary Level 6-6-0
In this course, students explore the meanings of "transformation through education" by designing interdisciplinary learning situations [unit plans] that lead learners to explore issues and questions that are trans-disciplinary in nature, such as those described in the Broad Areas of Learning of the QEP. This course also provides the context for students to integrate their learning, as their unit plans must show evidence of understanding of a range of concepts, methods, and strategies from other courses taken as part of the program. This course is scheduled over two semesters; when the internship practicum is complete, students return to the university where they synthesize their learning and provide evidence of the capacity of ongoing critical reflection and commitment to the transformative power of education.

EDU 420f Interdisciplinary Teaching and Integration of Learning at the Secondary level 6-6-0
In this course, students explore the meanings of "transformation through education" by designing interdisciplinary learning situations [unit plans] that lead learners to explore concepts such as peace and human security, sustainable urbanization, gender equality, and poverty reduction. Students are required to collaboratively plan the learning situations, thereby increasing their awareness of the conceptual and textual features of disciplines other than their own. This course also provides the context for students to integrate their learning, as their unit plans must show evidence of understanding of a range of concepts, methods, and strategies for other courses taken as part of the program. This course is scheduled over two semesters; when the internship practicum is complete, students return to the university where they synthesize their learning and provide evidence of the capacity of ongoing critical reflection and commitment to the transformative power of education.

EDL 444 Professional Seminar III 1-0-0
This course is comprised of 12 hours of preparatory seminars and related activities to enhance the students' experiences in the field and their induction into the workplace. Seminars include guest speakers, discussions and panels; practicum preparation, such as the CAST conference (Collaborative Associate and Student Teacher) is a component of the course. This is a Co-requisite of EDU 419 and EDU 420.
Co-requisites: EDU 419 or EDU 420

EDU 421b Methods in the Teaching of Language Arts - Elementary 3-3-0
This course will begin to prepare pre-service teachers to support the literacy development of all young learners in kindergarten and cycle one. Pre-service teachers will learn methods for the development and assessment of competencies in English Language Arts.

EDU 422b Methods in the Teaching of Mathematics 3-3-0
The general goal of the course is to learn to teach mathematics in such a way that your students develop "mathematical power." Mathematical power includes both ability (to conjecture, reason logically and communicate about mathematics) and attitude (self-confidence and a disposition to question and explore significant mathematical situations).
The course will focus on the following:
Mathematical content. Students will develop and/ or refine their conceptual and procedural knowledge of the mathematics included in the elementary curriculum. Particular attention will be given to the content recommended in the QEP Math Curriculum Guide.
Mathematical learning. Students will explore instructional strategies and tools for the teaching and assessment of mathematics consistent with constructivist theories. Students will be expected to use this knowledge when planning for instruction.
Connecting mathematical ideas. Students will explore ways to link mathematical ideas and to relate mathematics to other subject areas and everyday situations.

EDU 425a Methods in the Teaching of Creative Arts – Elementary 3-3-0
This course provides starting points for students to examine Visual Arts and Music both as separate disciplines and as potent tools in an integrated curriculum. Through a variety of approaches, students receive instruction in theory and teaching practices as well as hands-on experience. During the term students develop their own instructional strategies through the development of a curriculum unit of thematically related, arts based lesson plans and projects.

EDU 433a Methods for Social Inquiry and Literacy 3-3-0
This course will prepare pre-service teachers with the understandings, skills, and methods to support their learners' evolving world view. Pre-service teachers will explore: the role of language arts and social sciences in helping learners develop a critical understanding of the world, how literacies in their various forms can be used in the classroom for the examination of issues and concepts across the curriculum, how inquiry strategies can be applied in a social science context, and assessment tools relevant to inquiry approaches in these subject areas.

EDU 434a Methods for Scientific Inquiry and Problem Solving 3-3-0
As a complement to Methods for Social Inquiry and Literacy, this course will continue to prepare pre-service teachers in supporting their learners' evolving world view. Pre-service teachers will explore: the role of science and mathematics in helping learners develop a critical understanding of the world, how inquiry strategies and problem solving can be applied in a natural science and mathematics context, and assessment tools relevant to inquiry and problem solving in science and mathematics

The following, EDU 328, EDU 329, EDU 428 and EDU 429, take place in assigned educational settings:

EDU 328b Professional Practice 6-3-0
Through field experience in the elementary school setting, students will integrate theory with practice in this practice teaching placement. Students will plan, present, and self-evaluate lessons in collaboration with faculty supervisors, university teaching associates, and associate teachers. They will evaluate students and participate in the life of the school inside and outside the classroom.
Pre-requisite: EDU 216 Orientation to Elementary Teaching
Co-requisite: EDL 333 Professional Seminar II

EDU 329b Professional Practice 6-3-0
Through field experience in the secondary school setting, students will integrate theory with practice in this practice teaching placement. Students will plan, present, and self-evaluate lessons in collaboration with faculty supervisors, university teaching associates, and associate teachers. They will evaluate students and participate in the life of the school inside and outside the classroom. Students in certain secondary profiles may be placed in an adult education setting.
Pre-requisite: EDU 215 Orientation to Secondary Teaching
Co-requisite: EDL 333 Professional Seminar II

EDL 333b Professional Seminar II 1-0-0
This course is comprised of 12 hours of preparatory seminars and related activities to enhance the students' experiences in the field. Seminars include guest speakers, discussions and panels; practicum preparation, such as the CAST conference (Collaborative Associate and Student Teacher) is a component of the course.
Co-requisites: EDU 328 or EDU 329

EDU 428b Internship 15-0-0
This practicum is the culmination of the students' socialization into the profession of teaching. Through a lengthy elementary school immersion, students synthesize theories with practice to assume the competencies required of a teacher in the classroom and in the profession. Students become full-time teachers and colleagues with associate teachers, university teaching associates and faculty supervisors. They focus on long term and short term planning and implementing units of study. They experience all the challenges of the profession: teaching and evaluating students, interviewing parents, working on teams, organizing extra-curricular activities, and participating in professional development activities.

EDU 429b Internship 15-0-0
This practicum is the culmination of the students' socialization into the profession of teaching. Through a lengthy secondary school immersion, students synthesize theories with practice to assume the competencies required of a teacher in the classroom and in the profession. Students become full-time teachers and colleagues with associate teachers, university teaching associates and faculty supervisors. They focus on long term and short term planning and implementing units of study. They experience all the challenges of the profession: teaching and evaluating students, interviewing parents, working on teams, organizing extra-curricular activities, and participating in professional development activities. Students in certain secondary profiles may be placed in an adult education setting.

Programs leading to the Master of Education (M.Ed.)

The Master of Arts (M.A.) in Education is offered on demand.

Graduate courses leading to the M.Ed. degree are normally offered during each of the four semesters: Fall, Winter, Spring, and Summer. During the fall and winter, courses are offered primarily during the evening and on week-ends. Evening or week-end courses are offered on or off campus during the spring semester. A summer school is held on campus.

Course Offerings

In the M.Ed. program, students pursue studies in one of three concentrations, Art Education, Educational Leadership, or Curriculum Studies. There are compulsory courses common to all students, in addition to some specific ones, depending on which program the student has opted for. Students who have completed graduate courses at Bishop's University may be considered for advanced standing. The Admissions Committee of the School of Education may consider the transfer of a maximum of nine credits from the Principal's Professional Certificate Program, or the Certificate in Teaching English as a Second Language (TESL). Such transfer credits will only be considered for courses in which the grade received is at least 75%. Practicum courses are not eligible for such transfers. A maximum of nine credits from another institution may be applied to the M.Ed. program.

Master of Arts in Education

(Offered on demand)

45-credit program with thesis

Concentration in Educational Leadership
Educational Research Module

6 compulsory credits including

GSE 512: Research Methods I

One of:

GSE 513: Research Methods II (Qualitative)
GSE 515: Research Methods III (Quantitative)
GSE 511: Educational Statistics

Foundations in Educational Leadership Module

9 Credits

GSE 571: Principles of Educational Leadership

One of:

GEA 521: Seminar in Educational Administration
GSE 572: Seminar in Leadership in Curriculum & Instruction

One of:

GEA 522: The Principal
GSE 573: Creating Effective Schools

Electives

6 Credits

Exit documents

24 Credits

GSE 705: Thesis Proposal (3 credits)
GSE 700: Thesis (21 credits)

Master of Arts in Education

(Offered on demand)

45-credit program with thesis

Concentration in Curriculum Studies

Educational Research Module

6 compulsory credits including

GSE 512: Research Methods I

One of:

GSE 513: Research Methods II (Qualitative)
GSE 515: Research Methods III (Quantitative)
GSE 511: Educational Statistics

Additional Requirements

GSE 503: Curriculum Explorations I

One 9-credit Specialization Module (see page 63)

Electives

3 Credits

Exit Documents

24 Credits

GSE 705: Thesis Proposal (3 credits)
GSE 700: Thesis (21 credits)

Master of Education

45-credit program without thesis

Research Module (for all concentrations)

9 compulsory credits

GSE 510: Academic Reading and Writing
GSE 512: Research Methods, Part A
GSE 518: Research Methods, Part B

Concentration in Art Education

Foundations

12 credits

GSE 590: The Creative Process in Education

GSE 594: Readings in Art Education

GSE 501: Psychology of Teaching and Learning

GSE 502: Educational Philosophies

Specialization

9 credits of Art Education courses

Electives

6 credits

Exit Documents

GSE 706: Exit Project Proposal.....3 credits

One of:

GSE 701: Monograph

OR

GSE 703: Project in Art Education

OR

GSE 704: Art Exhibition and Supporting Documents.....6 credits

Concentration in Educational Leadership Foundations

12 credits

GSE 571: Principles of Educational Leadership

GSE 573: Creating and Leading Effective Schools

GSE 503: Curriculum Explorations I

GSE 502: Educational Philosophies

Specialization

9 credits of Educational Leadership courses

Electives

6 credits

Exit Documents

GSE 706: Exit Project Proposal.....3 credits

One of:

GSE 701: Monograph

OR

GSE 703: Educational Leadership Project.....6 credits

Concentration in Curriculum Studies Foundations

12 credits

GSE 501: Psychology of Teaching and Learning

GSE 505: Evaluation and Assessment

GSE 503: Curriculum Explorations I

GSE 502: Educational Philosophies

Specialization

9 credits of Curriculum Studies courses

Electives

6 credits

Exit Document

GSE 706: Exit Project Proposal.....3 credits

One of:

GSE 701: Monograph

OR

GSE 702: Project in Curriculum Studies.....6 credits

More detailed information about specific course choices for specialization is available from the School of Education.

COURSE DESCRIPTIONS

GSE 500 Selected Topics in Curriculum 3-3-0

This course has been designed to provide the student with the opportunity to examine recent developments in curriculum.

GSE 501 Psychology of Teaching and Learning 3-3-0

This course will examine ways to use the theories, principles and research methods of psychology to understand learning and to inform the teaching and curriculum processes. The implications of different theories of learning will be examined. Students will compare and contrast how the theories define knowledge and learning. Students are encouraged to explore in depth topics relevant to their practice.

GSE 502 Educational Philosophies 3-3-0

This course will examine the philosophical principles and theories that provide a foundation for education today. Through a critical review of philosophical perspectives, students will develop an understanding of the way in which these perspectives continue to shape current educational thinking and practice.

GSE 503 Curriculum Explorations I 3-3-0

This introductory course will examine curriculum as a socially constructed process. Students in the course will examine the principles and theories relating the various dimensions of the curriculum process: designing, planning, enacting and reflecting.

GSE 504 Curriculum Explorations II 3-3-0

This course is an extension of GSE 503, Curriculum Explorations I. Students will focus on using the knowledge acquired in GSE 503 and new knowledge constructed in GSE 504 to generate a curriculum design and the resources necessary to enact that design.

Prerequisite: GSE 503

GSE 505 Evaluation and Assessment 3-3-0

This course will focus on the role of evaluation and assessment of the learning process and will include an examination of their underlying principles. The practical implications of the school context on the learning process will be explored.

GSE 506 Globalization and Global Education 3-3-0

This course provides an overview and introduction to areas of research that inform the practice of global citizenship education. These include inter-disciplinary studies in globalization and education, transnational studies, postcolonial theory, citizenship education, social justice education, migration studies, and sociological and pedagogical approaches to education for social diversity. Students will engage current debates and implications of these for practice.

GSE 507 Origins of Modern Schooling 3-3-0

This course examines the trends and themes in educational history that have influenced and shaped contemporary school systems. The course will explore how schooling and concepts of education have changed over time, and will critically analyze the successes and failures of educational developments. Students will engage in historical thinking and research in order to understand how the educational past continues to impact education today.

GSE 508 History of Education Policy 3-3-0

This course explores the historical processes that have created current Canadian school systems, with a particular emphasis on Quebec. Through an analysis of public policy case studies, the course will assess the unfolding educational policy environment and how policymaking ideas and debates have impacted the current education landscape.

GSE 510 Academic Reading and Writing 3-3-0
This course has been designed to facilitate students' ability to (1) read, synthesize and analyze academic articles, books and other primary source texts and (2) express their knowledge and ideas in a scholarly fashion using the conventions defined by academic journals. Different types of research articles will be examined and strategies for reading each type explored.

GSE 511 Educational Statistics 3-3-0
This course is an introduction to statistical analysis methods. Topics to be covered include means, standard deviations, variances, sampling distributions, hypothesis testing z-tests, t-tests, correlation/regression and, if time permits, Chi-squared tests. This course emphasizes a conceptual understanding of statistics and their application in educational research rather than mechanical calculation.

GSE 512 Research Methods, Part A 3-3-0
This compulsory introduction course in research in education is designed to help participants connect current research in education with school contexts. The course includes topics such as the role of research in education; the selection of a research topic; the generation of a research question; research methods, including qualitative and quantitative analysis and action research; interpretation of data; limitations of research; and presentation of research results.

GSE 513 Research Methods II 3-3-0
This course in research in education is designed for those students who wish to offer themselves as candidates for the degree of M.A. at Bishop's University but it will also be useful for teachers who wish to evaluate current research in education. This course, grounded in an interpretive qualitative paradigm, will include topics such as the role of research in education, selection of a research topic, gaining entry to a research site, generation of a research question, data collection methods, systems of analyses such as constant comparison and grounded theory, interpretation of data, limitations of research, and presentation of research results.
Prerequisite: GSE 512

GSE 515 Research Methods III 3-3-0
This course in research in education is designed for those students who wish to offer themselves as candidates for the degree of M.A. at Bishop's University but it will also be useful for teachers who wish to evaluate current research in education. This course, grounded in a positivistic, quantitative paradigm, will include topics such as the role of research in education, selection of a research topic, generation of a research question, statistical analyses, interpretation of data, limitations of research, and presentation of research results.
Prerequisite: GSE 512

GSE 516 Introduction to Action Research 3-3-0
This course has been designed to enable participants to carry out action enquiry, to understand the fundamental principles of action research and to explore action research as a form of professional development. The course will address issues related to the individual, the school, and the community.

GSE 518 Research Methods, Part B 3-3-0
This compulsory course extends the attention of the topics listed for GSE 512 – Research Methods, Part A.
Prerequisite: GSE 512

GSE 520 Selected Topics in Special and Inclusive Education 3-3-0
This course has been designed to provide the student with the opportunity to examine recent developments in special education.

GSE 521 The Exceptional Learner 3-3-0
This course in special education will examine the characteristics of learners with diverse special needs, including the psychological, medical and sociological aspects of the various exceptionalities and the various ways in which they are educated. The content of this course will be of relevance to administrators and regular classroom teachers as well as to special educators. Participants in this course will critically examine the many approaches to facilitating learning for individuals with learning disabilities and other exceptionalities.

GSE 524 Behavioral Disorders 3-3-0
This course will examine multiple types of emotional problems and behavioral disorders challenging students in today's classrooms. Theories and principles explaining these difficulties as well as how to analyze patterns and see how problems develop will be explored. Students will critically explore methods for dealing with problem behaviors in the classroom.

GSE 530 Selected Topics in Media Literacy 3-3-0
This course has been designed to provide the student with the opportunity to examine recent developments in media literacy. It will foster an expanded understanding of media and media technology, including the impact on our society and the shaping of individual and collective values and beliefs.

GSE 534 Selected Topics in Educational Theory 3-3-0
This course is designed to provide the student with opportunities to explore various theories of education. Specific topics will be chosen for each course by the professor.

GSE 550 Selected Topics in Educational Technology 3-3-0
This course has been designed to provide the student with the opportunity to examine recent developments in educational technology.

GSE 552 Technology in Education 3-3-0
This course will focus on the potential which technology offers for the enrichment of learning and teaching. Drawing on current research students will examine issues of appropriate effective integration of technology in the curriculum such as the need for value-added approaches. The course will focus on modern technologies including applications of e-learning.

GSE 553 Technology and the Role of the Educator 3-3-0
This course examines the role of the educator in an increasingly technological world. Modern advances in technology have seen a concomitant change in the role of the teacher from one who passes on knowledge to one who mentors students in developing their knowledge. Students become active in their educational activities. This course will examine theoretical perspectives on the role of the educator in a technologically-defined world and the implications for current and future practices. The students in this course will also learn how to create student-centered applications of technology in the classroom, allowing students to make their own products and their own content.

GSE 559 Research in Educational Technology 3-3-0
This course has been designed to provide students with the opportunity to search and locate the literature relevant to their selected topics of interest. Students will acquire skills in conducting both electronic and hand searches. They will critically analyze the literature base related to one facet of educational technology and produce a scholarly, written review of that literature. This literature review will culminate in research questions, objectives, or hypotheses that align with the literature reviewed. This course is compulsory for students registered in the MA program with emphasis in educational technology and should be taken near the end of their program.

GSE 560 Selected Topics in Literacy 3-3-0
This course allows students to examine research related to current issues in literacy learning and teaching. Specific topics vary from year to year to take advantage of the special expertise of the faculty.

GSE 561 Language and Literacy Studies 3-3-0
Through this course, students examine current trends, issues, theory and research in teaching and learning in the English language arts classroom. Topics include media literacy, critical literacy, multiliteracies, multicultural curricula, and language learning and teaching across the curriculum.

GSE 564 Learning to Write and Writing to Learn 3-3-0
This course is designed for teachers who are interested in exploring many different approaches to learning to write in different genres. Participants should be prepared to engage in a great deal of writing as the philosophy of the course is one that is grounded in the notion that "we learn to write by writing".

GSE 570 Selected Topics in Educational Leadership and Administration 3-3-0
This course has been designed to provide the student with the opportunity to examine recent developments in educational leadership and issues related to educational administration.

GSE 571 Principles of Educational Leadership 3-3-0
This course, designed for teachers and administrators interested in becoming effective leaders, is an introduction to the study of educational leadership. Participants in this course will be introduced to the theory and research literature on issues of leadership in general and school leadership in particular. Students will explore topics such as school-based management, invitational leadership, flexible leadership, professional collaboration and individual initiative.

GSE 573 Creating and Leading Effective Schools 3-3-0
This course aims to inform practicing and aspiring school leaders about ways to mobilize a school staff toward greater effectiveness in reaching a joint mission. It examines current research and school improvement literature with a view to developing practical strategies for whole school assessment, evaluation and development.

GSE 574 Understanding Professional Development 3-3-0
This course will explore the many ways teachers develop as professionals, both individually and as members of educational organizations. Participants in the course will be involved in reading about and discussing topics such as the following: What knowledge is held by good teachers? What does teacher reflection contribute to development? What can be done by organizations to promote teacher learning and development? How are student learning and teacher learning related? What are the possibilities for designing professional development programs for teachers?

GSE 575 Educational Leadership Theories 3-3-0
This course is designed to provide students the opportunity to examine a set of educational leadership theories that have been or are currently used in school settings. Participants will be encouraged to critically examine the theories that are presented and explore the implication of using them in educational settings.

GSE 576 Teacher Leadership 3-3-0
Participants will explore the changing roles of teacher leaders and perspectives on teacher leadership. Participants will review relevant literature and will examine features of teacher leadership including teacher participation in institutional hierarchies and teacher involvement in shaping institutional cultures and acting as agents of transformation.

GSE 580 Selected Topics in Second Language Learning 3-3-0
This course has been designed to provide the student with the opportunity to examine recent developments in second language learning.

GSE 581 Introduction to Linguistics for Language Teaching 3-3-0
This course is a survey of linguistic theory as it relates to second language teaching. Students are exposed to major themes in linguistics as a basis for the study of second language teaching and learning.

GSE 582 Language Acquisition 3-3-0
The purpose of this course is to examine ways in which theories of language acquisition have implications for the teaching and learning of a second language. The course includes a study of important research in the field of language acquisition and its relevance to second language teaching.

GSE 583 Course Design 3-3-0
This course involves the application of the principles of instructional design to the development of second language courses and programs. Students will develop components for ESL teaching within a variety of instructional frameworks.

GSE 584 Teaching English Grammar 3-3-0
This course provides an overview of the theoretical background for the teaching of grammar. It includes a review of major grammatical patterns of English, as well as a focus on learner errors and the design of material appropriate to the teaching of grammatical concepts.

GSE 585 Methods in Second Language Teaching I 3-3-0
This first course in methodology introduces the student to classroom practices in teaching English as a second language. It includes a historical overview of approaches to second language teaching. The course focuses on the selection of teaching material and classroom techniques for second language teaching.

GSE 586 Methods in Second Language Teaching II 3-3-0
The second course in methodology extends the content covered in Methods I. Classroom practice and development of curriculum resources are the major topics covered in this course.
Prerequisite: GSE 585

GSE 587 Assessment and Evaluation in Second Language Teaching 3-3-0
This course includes an exploration of design strategies for effective assessment and evaluation procedures for second language teaching. It combines the theory of effective assessment with practical applications for the second language classroom.

GSE 588 The Second Language Learner 3-3-0
This course focuses on a learner-centered approach to second language teaching. It emphasizes the importance of individual learner backgrounds, special needs of learners, individual learning styles and strategies, and cultural considerations in the teaching of English as a Second Language.

GSE 589 Observation and Practice Teaching in Second Language Classrooms 6-3-0
This six-credit course involves the observation of experienced second language teachers in their classrooms, as well as peer observation of students in the course. Students will develop and teach lessons under supervision at both the primary and secondary levels. Students may observe and teach in adult classes.

GSE 590 The Creative Process in Education 3-3-0
Students will explore the creative process as it affects and is affected by the relationship between the teacher and the learner. Students will engage in creative projects and monitor their own creative process. Through readings, discussion, and experiences with different media, students will learn to articulate and evaluate learning within a creative process framework.

GSE 591 Studio Inquiry I 3-3-0
In this course students identify the content and the processes essential to their on-going studio performance. Students are expected to develop parallel inquiry into exhibitions, installations, performances, documentations, notation systems and related readings. Evaluation is based on workshop and seminar participation, studio performance and class presentations. This course may be continued as GSE 592.

GSE 592 Studio Inquiry II 3-3-0

GSE 593 Selected Topics in Art Education 3-3-0
This is a seminar course offering students the opportunity to study various aspects of art education. Specific topics vary from year to year to take advantage of the special expertise of the faculty.

GSE 594 Readings in Art Education 3-3-0
This is a seminar course in which students study selected texts to gain insight into formative notions and recurring issues in art education. Assignments include historical research questions arising out of an examination of personal experiences in the teaching and learning of art.

GSE 595 Symbolic Imagery: Art Therapy and Art Education 3-3-0
As symbols inform the artist and imagery, this course acquaints students with the field of art therapy and its implications with art education. Through an exploration of personal imagery and group communication in the studio workshop, students develop an art therapy methodology within the context of relevant theories.

GSE 596 Art and Technology: an on-going dynamic 3-3-0
This course addresses the assumptions that underlie the discourse about art and technology. Technology has and continues to be used as a part of art, in the service of art, and as forms of art. Correspondingly each technological innovation in art raises a new set of practical, theoretical, and aesthetic questions that challenge theoretical underpinnings within art education. A review of some of the types of technology-based art, with examples of work by some prominent artists, establishes the range of difficulties that accompany the introduction of new technologies into art and the effects of these new visual languages on discourses in art and art education.

GSE 700 Thesis 21 credits
This 21-credit research study, completed under the supervision of a thesis supervisor assigned by the School of Education, permits the M.A. student to conduct a research study. A successful graduate level thesis is an academic document that must meet the standards of scholarship established by the appropriate research community.
Prerequisite: Successful completion of GSE 705: Thesis Proposal

GSE 701F Monograph 6 credits
This 6-credit monograph, under the supervision of a mentor assigned by the School of Education, permits the student in the final stages of his/her program to use the knowledge acquired to inform the designing and composing of an original piece of scholarly writing. This document can take a variety of forms including a research report, a book, or a critical review of a body of literature. A successful graduate level monograph is an academic document that must meet the standards of scholarship established by the appropriate research community.
Prerequisite: Completion of all course requirements for the Master of Education degree with a concentration in Curriculum Studies or Educational Leadership, including GSE 706 – Exit Project Proposal.

GSE 702F Curriculum Studies Project 6 credits
This 6-credit independent project, under the supervision of a mentor assigned by the School of Education, permits the M.Ed. student in the final stages of his/her program to draw on various appropriate and significant experiences and insights to inform the designing of a novel unit of study and to facilitate the inquiry into its enactment. Each project will seek to inform practice through a significant research component.
Prerequisite: Completion of all course requirements for the Master of Education degree with a concentration in Curriculum Studies, including GSE 706 – Exit Project Proposal.

GSE 703F Educational Leadership Project 6 credits
This 6-credit independent project, under the supervision of a mentor assigned by the School of Education, permits the M.Ed. student in the final stages of his/her program to draw on various appropriate and significant experiences and insights and to apply this knowledge to a real-life problem in educational management or leadership. The student starts with an analysis of the problem and the design of a plan of action (to be approved by the mentor). However, it is expected that each project will seek to inform practice through a significant research component.
Prerequisite: Completion of all course requirements for the Master of Education degree with a concentration in Educational Leadership, including GSE 706 – Exit Project Proposal.

GSE 704F Art Exhibition and Supporting Documents 6 credits
The nature of the 6-credit art exhibition and supporting documents will be determined through consultation between the student and the supervisor.
Prerequisite: Completion of all course requirements for the Master of Education degree with a concentration in Art Education, including GSE 706 – Exit Project Proposal.

GSE 705F Thesis Proposal 3 credits
This 3-credit independent study, completed under the supervision of a thesis supervisor, must be completed and defended prior to beginning the data collection phase of the thesis. The proposal should include a review of the literature and a complete description of the research design including statement of the problem, data collection procedures and instruments, and methods of analysis.
Prerequisite: Completion of all course requirements for the Master of Arts in Educational degree.

GSE 706 Exit Project Proposal 3 -3-0
Under the supervision of a mentor, students will develop a proposal for the final Exit Project, either GSE 701, GSE 702, GSE 703, GSE 704, to be submitted to the Graduate Program Committee for approval. Stipulations regarding the proposal are provided in the Exit Project Booklet available to students.

GEA 522 The Principal 3-3-0
This course will examine the relationship of the school principal with various constituencies, including students, teachers, the larger educational community and parents. Expectations and skills related to the roles and responsibilities of the school principal will be explored.

GEA 523 School and Community Relations 3-3-0
This course is designed to facilitate the development of communication and leadership skills necessary for positive school and community interactions. Students will examine contemporary issues from both a theoretical and practical perspective and develop strategies which address a variety of complex situations.

GEA 528 Examining Administration in Action 3-3-0
This course will provide current and aspiring administrators with the opportunity to plan and conduct a field study. The study will include applied research and a comprehensive written report concerning selected roles of the school administrator.

GSL 582 Teaching English to Adults 3-3-0
This course provides students with an overview of theory related to the teaching of adults. It focuses on the application of this theory to the teaching of English as a second language to adults: the development of a needs analysis, selection and design of appropriate materials, and the involvement of adult learners in the learning process.

GSL 589 Individual Project in the Teaching of English 3-3-0
This course may be taken with the special permission of the School of Education. It provides an opportunity for a student to pursue an area of special interest in the field of second language teaching.

Division of Humanities

The Division of Humanities offers a wide array of courses and programs in the traditional liberal arts disciplines of Classical Studies, Languages, Literature, Philosophy, History and Religion; interdisciplinary programs in Liberal Arts and in Arts Administration; as well as programs (involving both historical and practical study) in the three creative arts of Drama, Fine Arts and Music.

Degrees and Programs

Detailed descriptions of the degrees and programs offered are found under the respective Departmental sections of this calendar. The Division of Humanities offers a wide range of Major programs leading to a Bachelor of Arts (B.A.). In addition, the Departments offer Honours programs directed towards students that wish to attain higher levels of specialization in their discipline and that intend to pursue graduate studies. In addition, several departments offer Minor programs that can be added to one's Honours/Major program and some departments may offer certificate programs.

Divisional Major

The Division offers an entry level program for a limited number of students, allowing them to register as Divisional Majors (rather than into a specific program) for a maximum of two semesters. After two semesters of full-time study are completed, students must enroll into a specific program (Major). Students who are not accepted into one of the regular programs must consult with the Dean of Arts and Science to determine an academic plan.

Arts & Science and Divisional Requirements

In order to encourage students enrolled in the Division of Humanities to broaden the scope of their education, all majors and honours must complete at least three credits in each of the four categories listed below. While these requirements will not in themselves ensure against excessive specialization, it is hoped that they will lead students to find and pursue various areas of interest.

Category I:	Languages and Literature, including Greek, Latin, English and French, **with the exception of "101" courses in Modern Languages; 100-level courses in English as a Second Language; and 130-level courses in Études françaises et québécoises.** CLA 112 and 113, CLA 202 will also be considered as Category I courses.
Category II:	Drama, Fine Arts and Music
Category III:	Classics (including Latin and Greek), History, Liberal Arts, Philosophy and Religion
Category IV:	3 credits in the Division of Natural Science and Mathematics

No courses offered by the department in which the student is doing an honours or major may count towards fulfilling these requirements. Students with program combinations which require **more than** 72 credits are exempt from these requirements.

Departmental Honours Programs

Students must normally obtain a 70% average, as calculated from the best 60 credits in the Honours discipline (including cognates), in order to graduate with an Honours degree in any Humanities Program. (See under individual departments for particular honours requirements.)

Transfers from Other Programs

Students who wish to transfer from other departments or programs in the University into a program in the Division of Humanities must have maintained a cumulative average of 60% on all courses taken.

Graduation "with Distinction"

The notation "with Distinction" will appear on the transcript of students who graduate with a cumulative average of 80% or more. It is only available for first degree students.

Majors – School of Education and Humanities Programs

Students in the School of Education Secondary Education Program must register as Double Majors - in Secondary Education and in an area of specialization in another division. In the Division of Humanities areas of specialization include Drama, English, Fine Arts, French, History, Music, and Spanish. Specific courses and program requirements for these areas of specialization are listed in the Academic Calendar under "School of Education". All questions concerning courses and requirements should be referred to the Dean of the School of Education.

Divisional Course

ILT 102 Information Retrieval and Evaluation Skills for the Humanities (Lab) 1-0-1

The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments, including the correct use of library resources, such as the online catalogue, periodical indexes and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet, and the critical evaluation of retrieved resources. Academic integrity, plagiarism, and the correct citation of print and online sources are also covered. Taught in conjunction with a research-based course, the specific resources relevant to research in the Humanities are introduced,and the students retrieve the material necessary to complete the essays for their particular course. The course is taught in the library's electronic classroom, and each week the students are given the opportunity for practical experience. To see how ILT 102 is currently linked to your program, check requirements under various departments in the Humanities (e.g., required for Modern Languages and History). The course is open to all students, regardless of program.

The Art History Program offers an Honours in Art History and Theory (60 credits), a Major in fine Arts Concentration in Art History and Theory (48 credits), and an Art History and Theory Concentration in the Liberal Arts (36 credits).

For more information, please see the Art History section under fine Arts.

Arts Administration

This 72-credit interdisciplinary program combines the study of business, creative arts, and arts administration to provide students with the skills and knowledge needed to participate in the business and organizational areas of the cultural sector. Students normally begin the program with core courses in Business and one of the creative arts (Drama, Fine Arts or Music). As they proceed with their core options they undertake the 12 required credits in Arts Administration. Towards the end of the program, students will enrol in the practicum, AAD 353, and will be placed in a cultural venue consistent with their disciplinary focus. In addition to the practicum course, there are several opportunities for internship employment on campus in the Centennial Theatre, the University Gallery, the Music Chez Nous Concert Series, the Eastern Townships Resource Centre and other campus-based professional organizations.

The program director, in consultation with a steering committee made up of members from all four departments, will oversee the academic development of the program. Students should consult their departmental representative or the Coordinator of the Arts Administration Program for advice concerning program requirements and practicum (co-op).

Students are permitted to register in a double major combining Arts Administration with another core area—Business, Music, Fine Arts, or Drama. Core courses may be double-counted towards the two majors.

Students following an Arts Administration program are not eligible for a Business Minor.

Core Courses: Business *(30 credits)*

Full descriptions of the following can be found in the calendar section of the Williams School of Business. These courses will provide a foundation in the major functional area of business management. Please note that students will also need to take the mathematics prerequisites for these courses. (Inquiries regarding other prerequisites should be addressed to the Department Chair of the Williams School of Business.)

BAC 121	Purposes of Accounting
BFN 200	Introduction to Finance
BHR 221	Organizational Behaviour
BMA 140	Statistical Analysis for Business Decisions I
BMG 112	Management Theory and Practice
BMG 215	Introduction to International Business
BMK 211	Marketing Management
BMK 214	Consumer Behaviour
ECO 102	Principles of Economics: Microeconomics
ECO 103	Principles of Economics: Macroeconomics

Core courses: Drama, Fine Arts, or Music

(30 credits)

Full descriptions of these courses can be found in the calendar sections of the departments. Concentration in one of these departments will ensure that students gain a solid grounding in one of the creative arts. (Inquiries regarding prerequisites should be addressed to the Dean of Humanities.)

Drama *(30 credits)*

DRA 101	Introduction to Technical Theatre
DRA 102	Introduction to Theatre
DRA 110	Introduction to Theatre II
DRA 131	Acting I
DRA 201	Contemporary Canadian Drama

One (3-credit) course from:

DRA 211, DRA 212 **or** DRA 230
DRA 222 Introduction to Shakespeare

One course (3 credits) chosen from:

DRA 250	Intermediate Technical Theatre Stagecraft
DRA 254	Stage and Production Management
DRA 370	Independent Study Special Project

Two other courses (6 credits) in Drama

Fine Arts *(30 credits)*

FIH 102, formerly FIN 102	Survey of Western Art II
FIH 220, formerly FIH 104 and FIN 104,	20th Century Art to the Sixties
FIH 105, formerly FIN 105	Art Since l950

One Art History course (3 credits) at the 200 level

Comparative Arts: Two courses (6 credits) chosen from:

Chemistry 132	Chemistry of Art Restoration
FIN 209 / Physics 112	Introduction to Holography
FIN 218	Digital Imaging for the Artist
FIN 222	Art Therapy
FIN 235	Museology
FIH 301	Art Education: Theory and Practice

See also: Comparative Arts courses listed in Fine Arts section of Calendar

Four courses (12 credits) in Studio Art

Music *(30 credits)*

Music History and/or Literature	9 credits
Music Theory and/or Composition	9 credits
Ensemble Courses	2 credits
Practical Study	4 credits
Music Electives	6 credits

Required courses: Arts Administration *(12 credits)*

These three specialized courses and practicum will provide students with specific knowledge of arts administration and hands-on experience in the program option. Students normally take these courses in the last 60 credits of their program.

AAD 250a Arts Administration: Internal Operations 3-3-0

The course will examine various types of arts organizations from the perspective of the management of artistic resources: accounting, finance, human resources, project management and production organization.

AAD 251b Arts Administration: The External and Legal Environment 3-3-0

This course will examine the social/political context of cultural operations. Among the topics analysed are: the legal aspects in not-for-profit organizations, board governance, labour issues and the status of the artist, funding structures - government and private sector, networking.

Prerequisite: AAD 250a or permission of instructor

AAD 252 Arts Administration: Communications and Marketing 3-3-0

The course will examine the area of public relations and business communication as it relates to cultural promotion: marketing, press releases, advertising, sponsorship, consumer behaviour.

AAD 353 Arts Administration: Practicum 3-3-0

This course will be a directed independent study in which the student is placed in a range of posts in the arts industry and in not-for-profit cultural agencies.
Prerequisites: AAD 250, AAD 251, AAD 252

Certificate in Arts Management *(30 credits)*

Description and objectives:

The Certificate in Arts Management has been designed to provide students who are working or interested in working in the artistic and cultural fields as managers with a professional background in Arts Administration. The program is composed of ten 3-credit courses (for a total of 30 credits) in Business Administration, Arts Management, and in the Arts.

Admission requirements:

(See Regulations for Certificate Programs).

I. Required courses 18 credits:

1. 3 courses in Business Administration *(9 credits)*

BMG 112ab Management Theory and Practice 3-3-0
BMK 211ab Marketing Management 3-3-0
BAC 121ab Purposes of Accounting 3-3-0

2. A minimum of 3 courses in Arts Management *(9 or 12 credits)*

AAD 250ab Arts Administration I: The External and Legal Environment 3-3-0
AAD 251ab Arts Administration II: Internal Operations 3-3-0
AAD 252ab Arts Administration III: Communications and Marketing 3-3-0
AAD 353ab Arts Administration IV: Practicum 3-3-0

II. Optional courses:

3 or 4 optional courses (9 or 12 credits) in the Arts — Drama, Fine Arts or Music. Courses should be taken in one of the three disciplines only.

DRAMA:

DRA 101ab Introduction to Technical Theatre 3-3-3
DRA 102ab Introduction to Theatre 3-3-0
DRA 201ab Contemporary Canadian Drama 3-3-0

And any other course in dramatic literature.

FINE ARTS:

FIH 101ab, formerly FIN 101ab Survey of Western Art I 3-3-0
FIH 102ab, formerly FIN 102ab Survey of Western Art II 3-3-0
FIH 240ab, formerly FIN 240ab Canadian Art 3-3-0
FIH 220ab, formerly FIH 104ab and FIN 104ab Twentieth Century Art to the Sixties 3-3-0
FIH 221ab, formerly FIH 105ab and FIN 105ab Art Since the 1960s 3-3-0
FIH 215ab, formerly FIH 116ab Renaissance and Mannerism 3-3-0
FIH 218ab, formerly FIH 231ab Realism to Fin de Siècle 3-3-0
FIN 235ab Museology 3-3-0
FIH 250ab, formerly FIN 250ab Women in Art 3-3-0

MUSIC:

MUS 110ab The Art of Listening I 3-3-0
MUS 111ab The Art of Listening II 3-3-0
MUS 130ab Rudiments of Music Theory 3-3-0

And any music literature course with a -0- as a central digit.

Divisional Major in Popular Culture *(48 Credits)*

This interdisciplinary Major in Popular Culture allows students to study various forms of popular culture—in literature, film, music, television, journalism, photography, advertising, and the internet—from the perspectives of history, theory and criticism.

Required Courses (15 credits):

ENG 102 Approaches to Media Studies
ENG 236 Popular Culture
LIB 20X,
LIB 20Y,
LIB 30Z (exit course)

Electives (33 credits):

Category I (Classics, History, Philosophy, and Religion – *9 credits*):

CLA 150 The Ancient World in Film and Television
HIS 332 The Celluloid Republic
HIS 371 A History of Communications
PHI 247 Philosophy and Film
REL 237 Film and Religion

Category II *(Drama, Fine Arts, Music – 9 credits):*

DRA 170 Introduction to Film
DRA 172 Canadian Cinema
FIH 230 History and Theory of Photography
FIH 240 Art, Popular and mass Culture
FIN 218 Digital Imaging for the Artist
MUS 101 Rock
MUS 102 Music for the Movies
MUS 103 History and Analysis of Jazz to 1945
MUS 104 History and Analysis of Jazz 1945-Present
MUS 105 World Music
MUS 109 Music and Theatre

Category III *(English and Modern Languages – 9 credits):*

ENG 212 Crime Stories: The Great Detectives
ENG 217 Arthurian Tradition
ENG 218 The Gothic Tradition
ENG 219 Popular Narrative: The Graphic Novel
ENG 220 Popular Narrative: Fantasy
ENG 278 Science Fiction in Literature and Film
ENG 280 Classics of the Post-War Cinema
ENG 281 The Films of Marlon Brando

ENG 282	**Film Adaptation**
ENG 284	**Film Noir**
ENG 285	**Journalism**
ENG 286	**On-line Journalism**
ENG 287	**Image and Communication**
ENG 288	**Crime Pays: the Gangster Film Genre**
ENG 289	**Film History**
ENG 290	**The New Journalism**
ENG 291	**Film Theory**
ENG 359	**Approaches to Canadian Culture (Canadian Studies)**
ENG 381	**The Evolution of the Fairy Tale in Literature and Film**
ENG 382	**Screenwriting**
FRA 207	**Mise à jour grammaticale**
FRA 290	**Censure, religion, campagne et coureurs de bois**
GER 370	**Introduction to German Film**
GER 371	**East German Cinema: from Rubble Films to Ostalgie**
ITA 309	**Italian Cinema and Society**
ITA 310	**Italian Cinema and Society II**

Category IV *(Outside Division – 6 credits):*

ESG 264	**Outdoor Recreation**
PSY 203	**Sports Psychology: Performance Enhancement**
AND/OR	
PSY 204	**The Social Psychology of Sports and Exercise**
SOC 105	**Media and Society I**
SOC 241	**Cinema**
SOC 281	**Communications Methods**
SOC 293	**Visual Sociology**
SOC 294	**Sociology of Tourism**
SOC 381	**Media and the Environment**

Students will be required to attend two popular culture events on campus per semester. They may substitute one internship course (3 credits) as an Elective.

Divisional Minor in Popular Culture *(24 credits)*

Students must take ENG 102 and ENG 236 as well as LIB 20X and LIB 20Y. They choose their remaining courses from the list of Electives for the Divisional Major.

Classical Studies

Socrates; Julius Caesar; Gladiators; The Olympic Games; Cleopatra; The Sphinx…

A student in the Classical Studies (a.k.a. Classics) department will enter the world of the ancient Mediterranean. We focus especially on the civilizations of Greece and Rome and offer courses in their literature, mythology, history, culture, art, and archaeology. Students have the opportunity to learn Latin (the language of Roman emperors and Christian popes) and Greek (the language of philosophy, tragedy, and the New Testament). The courses offered by the faculty of the Classics department are also supplemented by related courses in the departments of Philosophy, Religion, and in the Liberal Arts program. Many of our classes do not have prerequisites and thus we welcome students from all disciplines. In this regard most of the 200 level courses are suitable for students in their first year. All you need are interest and enthusiasm to begin your journey into the Classical past.

Honours in Classical Studies *(60 credits)*

Requirements:

An overall average of 70% or more in courses counting towards the honours.

A minimum of 24 credits in Latin and Greek.

A minimum of two third-year courses.

CLA 400 and CLA 401 (thesis)

The remaining credits may be taken in any combination of CLA, GRE, or LAT courses.

Major in Classical Studies *(42 credits)*

Requirements: Majors must take CLA 100 or CLA 101 in their first or second year, as well as a minimum of two third-year courses during their degree. Six credits in LAT or GRE are strongly encouraged. The remaining credits may be taken in any combination of CLA, GRE, or LAT courses.

Minor in Greek and Roman Civilization *(24 credits in CLA and/or GRE and/or LAT)*

Minor in Classical Languages *(24 credits)*

Requirements: credits in at least two of the following ancient languages: Hebrew, Greek, or Latin. At least 12 credits in either Greek or Latin.

Minor in Classical Art and Archaeology *(24 credits)*

Requirements: 9 credits in: CLA 107, CLA 120, CLA 238, CLA 239, CLA 240 and CLA 241; 9 credits in: CLA 110, CLA 205, CLA 206, CLA 207, CLA 208; 3 credits in: CLA328, CLA 335, CLA365, CLA 366; 3 credits in any other CLA, LAT, or GRE course.

Minor in Ancient History *(24 credits plus 1 lab credit)*

Requirements: either [LAT 101 or GRE 101]; two of: [CLA 120, CLA 127, CLA 160, CLA 210, CLA 261]; one of [CLA 320, CLA 328, CLA 360]; all of: [HIS 110, HIS 200 and HIS 372; ILT 102]

Cognate Courses

The following courses in Classical Studies are recognized as cognate in other departments:

CLA 120, CLA 127, CLA 160, CLA 210, CLA 223, CLA 261 in History

CLA 112, CLA 113, CLA 219, CLA 220 in English

CLA 219, CLA 220 in Drama

CLA120, CLA 110, CLA205, CLA206, CLA207, CLA208 in Fine Arts

CLA 250, in Gender, Diversity, and Equity Studies

CLA 110, CLA 113 in Religion

CLA 100a You Are What You Eat, Food, Community and Culture in the Greek and Roman World 3-3-0

The aim of this course is to introduce students to the civilizations of ancient Greece and Rome. We will explore language, literature, art, religion, myth, history, politics, geography, science and technology as we investigate the many aspects of food production and consumption from cannibalism in Greek tragedy to the best way to stuff a dormouse. At the end of the course we will cook a meal and celebrate the Classical world.

CLA 101a Travellers, Tourists and Foreign Wars: Getting About in the Ancient Mediterranean World 3-3-0
Odysseus's epic voyage home from the Trojan War; the Greek colonization of brave new worlds; the spice trade routes; the long marches of Roman soldiers; ancient maps for adventurous tourists: these and other Classical examples of travel will introduce students to the fascinating world of the ancient Mediterranean. At the end of the course we will hold a colourful and flavourful Classical Food Fair to celebrate ancient exotic vacation destinations.

CLA 107ab /
REL 107ab Archaeology of the Middle East 3-3-0
This course is an introduction to the methods and terminology of archaeology used in the eastern Mediterranean region of Syria-Palestine. Students will gain some familiarity with the methods and techniques of archaeological research, and an overview will be provided of the material remains of the cultures of Syria-Palestine (including the ancient Israelites, Philistines, Canaanites, Moabites and others), in order to illuminate the religious beliefs, art and cultural activities of these groups in the centuries preceding the Christian era.

CLA 109ab /
REL 109ab Egypt and Mesopotamia: From the Rise of Civilization to the Persian Conquest 3-3-0
The region of Mesopotamia (modern Iraq) saw the development of the first complex urban society more than 5000 years ago. About the same time, a second complex society, Egypt, was forming along the banks of the Nile River in Africa. Employing a mixture of historical texts and archaeological research, this course will give an overview of ancient Egypt and Mesopotamia covering the time from the Neolithic Period (ca. 8500 BCE) to the Persian conquest in the 6th century BCE. It will begin with the formation of the first civilizations, the development of agriculture, writing, cities and major building projects in the form of temples and pyramids. In addition to examining the lives and political careers of important historical characters, the course will also explore the religious beliefs, and techniques of astronomy, medicine and warfare prevalent at the time.

CLA 110ab The Art and Archaeology of Ancient Egypt 3-3-0
A survey of the art and architecture of ancient Egypt from the Pyramids to the Valley of the Kings and an introduction to the archaeological discoveries made in Egypt in the twentieth and twenty-first centuries..

CLA 112ab /
REL 120a Ancient Greek Mythology 3-3-0
The origin and development of Greek mythology, and the importance of myths in understanding ancient literature and religion: theories of myth, cult and ritual, mystery religions, the epic tradition. Greek sources are read in translation.
Not open to students with credit in CLA 212 except to replace the earlier grade.

CLA 113ab Classical Mythology: The Greek Influence on Rome 3-3-0
Myth and tragedy, myth and history, lyric poetry, Roman mythology. Greek and Latin sources are read in translation.
Not open to students with credit in CLA 213 except to replace the earlier grade.

CLA 120ab An Introduction to Classical Archaeology 3-3-0
A survey of the history of classical archaeology from the discoveries of Schliemann at Troy and Evans at the Palace of Knossos and a study of the techniques of modern field archaeology.

CLA 122ab /
REL 122ab Ancient Mediterranean Religions 3-3-0
An introduction to Mediterranean religions from the time of Alexander the Great (356–323 BCE) to the emergence of Christianity as a prominent Roman religion in the late second century CE, including Mystery religions, Zoroastrianism, Judaism, Mithraism, popular philosophical options of piety such as Stoicism and Epicurianism, as well as different forms of divination technologies such as astrology, magic, dream analysis and alchemy.
Professor Murray

CLA 127ab Greek Civilization: From Homer to Pericles 3-3-0
The alphabet; the Olympic Games; philosophy; democracy; tragedy and comedy; history: was there anything the Greeks didn't invent? This course introduces students to the cultural, intellectual, political and literary achievements of the ancient Greeks.
Not open to students with credit in CLA 209, except to replace the earlier grade.

CLA 130ab Sports and Games in the Ancient World 3-3-0
The Olympic Games in ancient Greece and the chariot races in Rome's Circus Maximus allowed athletes to compete and spectators to enjoy themselves under the hot Mediterranean sun. Athletic training was useful in preparing men for war, but women also trained and competed in sports events. People of the ancient past liked to amuse themselves just as we do today, but dramatic festivals and even gladiatorial combat had religious origins. In this course we will use the sporting and recreational activities of the Greeks and Romans and their Mediterranean neighbours as a lens to reveal aspects of these ancient societies.

CLA 132ab /
REL 130ab Jesus and the Gospels 3-3-0
A course which introduces early gospels (both canonical and non-canonical), examined within the historical context of the Graeco-Roman world during the first and second centuries CE. Distinctive features and characteristics of each text will be examined in order to gain insight into their historical, social and political environments.
Open to first-year students.

CLA 150ab The Ancient World in Film and Television 3-3-0
Movies and television have shaped our ideas about Greek and Roman myth, history and civilization. In this course we will study "sword and sandal" films and television as popular art forms and their relation to the ancient literary and visual sources.

CLA 160ab Roman Civilization: the Republic 3-3-0
The social, political and cultural events of the Roman Republic, including the exploits of Hannibal, Julius Caesar, Cleopatra, and others.
Student cannot get credit for both CLA 160 and CLA 260, except to replace the earlier grade.

CLA 204ab /
REL 204ab Women in Religion 3-3-0
An investigation of the religious lives of early pagan, Jewish, and Christian women in the context of the Greco-Roman world. Literary and epigraphical sources from the fourth century BCE to the third century CE are analyzed in order to determine women's roles, rites and practices, with special attention to constructions of gender in the Graeco-Roman world.
Not open to students with credit in CLA 146 except to replace the earlier grade.

CLA 205ab Greek Art and Architecture 3-3-0
Western art and architecture begin in ancient Greece. From miniature vases to monumental statues of ivory and gold, we will explore the creations of potters and painters, sculptors and architects, and study Greek art from the Bronze age to the time of Alexander the Great.
Open to first-year students.

CLA 206ab
REL 203ab Early Christian Art and Architecture 3-3-0
This course examines the ways in which the Christians adapted elements from Greek, Roman and Near Eastern art and architecture to their religious beliefs and requirements and also studies the development of this new Christian art in the Byzantine Empire. Major topics include: Catacomb art, early Christian and Byzantine architecture, mosaic and painting, manuscript illuminations, textiles and the minor arts.
Open to first-year students.

CLA 207ab Early Roman Art 3-3-0
In this course we will begin with a study of the colourful wall paintings of Etruscan tombs where men and women drink and dance, and panthers and lions guard the dead. Once rulers of Rome, the Etruscans and their art declined as the Roman Republic grew powerful. We will examine how the Romans developed an innovative art and architecture which expressed the values of their society.
Open to first-year students.

CLA 208ab Art and Architecture of Imperial Rome 3-3-0
A survey of Roman art and architecture from the first century C.E. to the fourth century C.E. The course examines the use of art as propaganda and the tension between tradition and innovation in Roman Art.
Open to first-year students.

CLA 210ab Ancient Greece: The Golden Age of Athens 3-3-0
Classical Greece: the Persian Wars, the Athenian Empire, the development of democracy, Periclean Athens, the Peloponnesian War, the rise of Macedonia. Alexander the Great.
Open to first-year students.

CLA 217 The Ancient Epic 3-3-0
This course introduces students to the best epic poetry of the Greeks and Romans (poetry will be read in English translation). Sources to be studied may include the *Iliad, Odyssey, Argonautica, Aeneid,* and *Metamorphoses.*
Open to first-year students.

CLA 219ab Origin and Development of the Greek Tragic Theatre 3-3-0
Myth and tragedy in the Greek theatre, using representative tragedies of Aeschylus and Sophocles (in translation).
Open to first-year students.

CLA 220ab Late Greek Tragic Theatre: Ancient Avant Garde 3-3-0
A study of the later works of Sophocles and representative works of Euripides (in translation).
Open to first-year students.

CLA 223ab /
POL 223ab Democracy in the Ancient World 3-3-0
The idea of government by the people is highly valued today, but it was first given the name of "demokratia" (democracy) in ancient Greece. The most famous example in Greece is Classical Athens, but democratic elements appeared in many other ancient states, including republican Rome. The course will examine popular participation in Athens, Rome, and various other ancient societies: how it began, who could participate, who was left out, and what ancient writers thought of it.
Open to first-year students.

CLA 229 War and Society in the Greek and Roman World 3-3-0
War, omnipresent in the ancient Mediterranean, will be used to reveal socio-economic, religious, and cultural aspects of ancient Greek and Roman societies. Was war waged for economic motives (plunder, booty, supply in slaves, exploitation of local resources…)? Were there sacred wars? How did war affect art and architecture? How did encounters with other societies change the perception of war and bring about an evolution in warfare? How was war declared? What is known of diplomacy, peace-talks and treaties between allies or former enemies? This course is not about wars but about the impacts war had on society and how society changed the ways to wage war. This course is for both beginner and experienced scholars.

CLA 236ab /
REL 236ab Death and Dying in the Ancient World 3-3-0
This course explores the myths, rituals and beliefs associated with death and dying in antiquity. Topics to be covered include myths associated with the afterlife; books of the dead; magic and death rituals; and understandings of heaven, hell and judgement.
Prerequisite: REL 100a or REL 101b or REL 122a or permission of instructor
Open to first-year students.

CLA 238a / FIH 238a /
REL 238a Greece, Land of the Gods 6-6-0
This six-credit course examines the sacred art and architecture of ancient Greece from Mycenae to Byzantium on site in Greece. Offered in the Spring semester. After preliminary lectures on campus students will spend two weeks traveling to the major sacred sites of mainland Greece.
Open to first-year students.

CLA 239 Exploring Ancient Egypt 6-3-0
The allure of ancient Egypt has gripped outsiders since the Greek historian Herodotus travelled to Egypt and wrote about their strange and impressive customs. This course proposes that the best way to understand the ancient Egyptians is by learning as you travel. Major themes of Egyptian civilization will be explored while visiting some of the most significant archaeological sites such as the cemetery at Saqqara, Giza, Karnak Temple and the Valley of the Kings.

CLA 240ab Signs of the Past:
Archaeological Interpretation 3-3-0
A continuation of Classics 120ab with the emphasis on the techniques and methodology of archaeology. Topics include the use of artifacts in creating chronologies and theories, preservation and conservation of sites, ethical questions and problems relating to archaeological excavation. Sites from Greece, Italy and the American Southwest will be studied. Computer simulations will be used.
Open to first-year students.

CLA 241/
REL 241 The Archaeology of the Transjordan:
Archaeological Field Methods 6-6-0
Students registered in this course will participate in a six-week archaeological expedition to Jordan. Working under the supervision of professional archaeologists, students will be involved in the excavation and recording of artifacts recovered at Khirbat al-Mudayna, Jordan, as part of the Wadi ath-Thamad Excavation Project. Students will learn to take elevations, draw top plans and baulk sections, write daily and weekly field reports, and related activities. During the season, students will take part in the educational program of the expedition, which will include seminars, lectures by visiting scholars on the archaeology and history of Jordon, plus field trips to museums, neighboring excavations and major sites.
Open to first-year students.

CLA 250ab Sex and Gender in the Ancient World 3-3-0
This course will look at the ways that women and men of the ancient Mediterranean world interacted with each other, and at how ideas about sexuality and gender roles affected people's lives. Topics to be examined will include marriage and divorce, conception and contraception, masculine and feminine ideals, gender and the law, sex and social class, the effects of gender on religious expression, homosexuality, private versus public life, what ancient doctors knew about sex, how to use magic to get a lover, and deviations from ancient sexual and gender norms.
Open to first-year students.

CLA 261ab Roman Civilization: The Empire 3-3-0
The social, political and cultural events under the emperors, featuring the Roman army, gladiatorial combat, religion, and other topics.
Open to first-year students.

CLA 270a /
PHI 270a The Pre-Socratics 3-3-0
As an in depth study of the origins of philosophy in the West with special attention to Anaximander and Heracclitus, Pythagoras and Parmenides, Leucippus and Democritus.

CLA 271a /
PHI 271a Philosophy of Socrates & Plato 3-3-0
A study of the character and teaching of Socrates as portrayed in Plato's early and middle dialogues. Emphasis will be on theory of education.

CLA 272b /
PHI 272b Philosophy of Aristotle 3-3-0
A study of selected works of Aristotle with special emphasis on logic, metaphysics, and the concept of substance.

CLA 280ab /
REL 280ab Roman Religion 3-3-0
This course examines the religion of the ancient Roman people, following the traditions and changes from the 8th century BCE to the Imperial period. Roman religion was very different from the monotheistic religions with which many of us are familiar today, but it was also significantly different from the mythology of the ancient Greeks, despite the Romans' willingness to absorb and adapt the Greek myths. Topics to be studied in this course will include the Roman concept of divinity, beliefs about the dead, religious and cult ritual, senatorial and imperial control of religion, emperor worship, divination and prophesy, festivals, and Roman responses to the introduction of foreign religions.
Open to first-year students

CLA 320ab The Roman Family 3-3-0
This seminar course examines the characteristics and influences of the Roman "familia" (which included not only the extended family but also slaves and freed slaves) within Republican and Imperial Roman society. We will read sources (in translation) as well as modern scholarship.
Prerequisite: a previous Classics course or permission of the instructor

CLA 321ab Laws and Outlaws in Ancient Rome 3-3-0
This seminar course will focus on Roman law and order, and on those who broke the law or challenged Roman hegemony. A series of case studies will cover some of the well-known villains of Roman history as well as those who perpetrated private crimes. We will study Rome's response to threats to public order, how the city of Rome was policed, and which elements of Roman society were most likely to become victims of crime. Readings will include ancient sources in translation (legal, literary, and epigraphical texts) as well as modern scholarship.
Prerequisite: At least two Classics courses or permission of the instructor.

CLA 325ab The Classical Tradition 3-3-0
The influence of Greek and Roman myths, literature, and art on western culture has been powerful and enduring. This course will examine how Greek and Roman traditions have been reflected in Western culture from the Medieval period to the 21st century. Readings are in English translation.
Prerequisites: At least one first-year Classics and one second-year Classics course, or permission from instructor

CLA 328ab The Ancient City 3-3-0
This seminar course investigates the life of the ancient city through the use of archaeological and literary sources. The economic and political role, the art and architecture, and the very concept of a city will be examined through the examples of various ancient Mediterranean cities.
Prerequisite: At least two Classics courses or permission of the instructor

CLA 332ab /
REL 332ab Magic and Divination in the Ancient Near East 3-3-0
Since the 19th century, magic and divination have been subjects of great scholarly interest. This seminar course will examine how these phenomena were manifested in the region of what is today called the Middle East. We will also look at the supposed polemic against magic and divination In the Hebrew Bible (Old Testament), where calling someone a magician or diviner was a strategy for social control and definition, serving as an element in the construction of views about legitimate and illegitimate religious authority.
Professor Miller

CLA 335 Sacred Space in the Ancient World 3-3-0
How did the ancients experience their surroundings? How did their conceptions of space and place affect their relationships with their deities, their ancestors, and each other? From lofty temples to humble shrines, sacred mountains to grottoes, we will explore the intimate connection between sacred places and the development of ancient identity. Archaeological and literary data, as well as modern theories of space and place, will be examined.
Prerequisites: At least two Classics courses or permission of the instructor.

CLA 360ab Topics in Ancient History 3-3-0
This seminar course will examine selected topics and problems in ancient history and historiography. Sources will be read in translation.
Prerequisites: CLA 127 or CLA 210; CLA 160 or CLA 261; or permission of the instructor

CLA 365ab and CLA 366ab
Topics in Classical Art and Archaeology I & II 3-3-0
These seminar courses will explore topics and problems in Classical Art and Archaeology. Possible topics include: Roman provincial art and archaeology; Greek vase painting; gender and sexuality in ancient art; the archaeology of Periclean Athens; Aegean Bronze Age archaeology; Classical relief sculpture.
Prerequisites: one of CLA 120, CLA 240, CLA 205, CLA 206, CLA 207, CLA 208; or permission of the instructor

CLA 370a /
PHI 370a Hellenistic Philosophy 3-3-0
A study of selected Epicurean, Stoic, Skeptical and Neo-Platonic texts with reference especially to development of a philosophy of emotions and the elaboration of a systematic metaphysics.
Prerequisites: PHI 271, PHI 272 or permission of the instructor

CLA 380ab Topics in Greek and Roman Drama 3-3-0
This seminar course will concentrate on the nature of ancient drama, and will involve discussion of a selection of tragedies and/or comedies from the ancient Greek and Roman world.

CLA 400a Honours Thesis Preparation 3-3-0
The student will work with faculty advisors and complete a proposal, outline and bibliography and give an oral research progress report.

CLA 401b Honours Thesis 3-3-0
The student will continue to work with faculty advisors, complete a written thesis , and give a public presentation of the year's research.
Prerequisite: CLA 400a

Independent Studies

CLA 230 Independent Study 3-0-0

CLA 231 Independent Study 3-0-0

CLA 390a Independent Study 3-0-0

CLA 391b Independent Study 3-0-0

CLASSICAL LANGUAGES

GRE 101f Beginners' Greek 6-3-0
Introducing the ancient Greek language to the beginning student.

GRE 200ab Intensive Intermediate Greek 6-6-0
This intensive 6-credit-1-semester course (6 hours/week), may be offered either Fall or Winter instead of GRE 201 and GRE 202, with the mutual agreement of students and professor. The course will work on grammar, vocabulary and reading comprehension of ancient Greek.
Not open to students with credit in GRE 201 and/or GRE 202.
Prerequisite: GRE 101

GRE 201a Intermediate Greek I
3-3-0
Selections from Greek authors.
Not open to students with credit in GRE 200, except to replace the earlier grade.
Prerequisite: GRE 101

GRE 202b Intermediate Greek II 3-3-0
Selections from Greek authors.
Not open to students with credit in GRE 200, except to replace the earlier grade.
Prerequisite: GRE 101 and GRE 201

GRE 221a Independent Study in Ancient Greek 3-0-0
Prerequisite: GRE 101

GRE 222b Independent Study in Ancient Greek 3-0-0
Prerequisite: GRE 101 and permission of the instructor

GRE 300ab Intensive Advanced Greek 6-6-0
This intensive 6-credit 1-semester course (6 hours/week), may be offered either Fall or Winter instead of GRE 301 and GRE 302, with the mutual agreement of students and professor. Students will read selections of Greek authors while improving grammar and vocabulary.
Not open to students with credit in GRE 301 and/or GRE 302.
Prerequisite: two years of Ancient Greek

GRE 301a Advanced Greek I 3-3-0
Selections from Greek authors.
Not open to students with credit in GRE 300 except to replace the earlier grade.
Prerequisite: two years of Ancient Greek

GRE 302a Advanced Greek II 3-3-0
Selections from Greek authors.
Not open to students with credit in GRE 300 except to replace the earlier grade.
Prerequisite: two years of Ancient Greek

GRE 331a Independent Study in Ancient Greek 3-0-0
Prerequisite: GRE 101 and two semesters of Intermediate Greek and permission of the instructor

GRE 332b Independent Study in Ancient Greek 3-0-0
Prerequisite: GRE 101 and two semesters of Intermediate Greek and permission of the instructor

GRE 401a Advanced Greek III 3-3-0
Selections from Greek authors.
Prerequisite: three years of Ancient Greek

GRE 402b Advanced Greek IV 3-3-0
Selections from Greek authors.

LAT 101f Beginners' Latin I 6-3-0
Introducing the Latin language for the beginning student. The course covers basic Latin grammar, Latin vocabulary, and English etymology (the Latin origins for English words), and provides sufficient background to translate simplified Latin passages.

LAT 200ab Intensive Intermediate Latin 6-6-0
This intensive 6-credit 1-semester course (6 hours/week), maybe offered either Fall or Winter instead of LAT 201 and LAT 202, with the mutual agreement of students and professor. The course will work on grammar, vocabulary and reading comprehension of Latin.
Not open to students with credit in LAT 201 and/or LAT 202.
Prerequisite: LAT 101

LAT 201a Intermediate Latin I 3-3-0
Selections from Roman authors
Not open to students with credit in LAT 200, except to replace the earlier grades.
Prerequisite: LAT 101

LAT 202b Intermediate Latin II 3-3-0
Selections from Roman authors
Not open to students with credit in LAT 200, except to replace the earlier grades.
Prerequisite: LAT 101 and LAT 201

LAT 221a Independent Study in Latin 3-0-0
Prerequisite: LAT 101 and permission of the instructor

LAT 222b Independent Study in Latin 3-0-0
Prerequisite: LAT 101 and permission of the instructor

LAT 300ab Intensive Advanced Latin 6-6-0
This intensive 6-credit 1-semester course (6 hours/week), may be offered either Fall or Winter instead of LAT 301 and LAT 302, with the mutual agreement of students and professor. Students will read selections of Roman authors while improving grammar and vocabulary.
Not open to students with credit in LAT 301 and/or LAT 302, except to replace the earlier grades.
Prerequisite: two years of Latin.

LAT 301a Advanced Latin I 3-3-0
Selections from Roman authors
Not open to students with credit in LAT 300, except to replace the earlier grade.
Prerequisite: two years of Latin

LAT 302b Advanced Latin II 3-3-0
Selections from Roman authors
Not open to students with credit in LAT 300, except to replace the earlier grade.
Prerequisite: two years of Latin

LAT 331a Independent Study in Latin 3-0-0
Prerequisite: LAT 101 and two semesters of Intermediate Latin, and permission of the instructor

LAT 332b Independent Study in Latin 3-0-0
Prerequisite: LAT 101 and two semesters of Intermediate Latin, and permission of the instructor

LAT 401a Advanced Latin III 3-3-0
Selections from Roman authors.
Prerequisite: three years of Latin

LAT 402b Advanced Latin IV 3-3-0
Selections from Roman authors.
Prerequisite: three years of Latin

Drama

The Department of Drama offers a program balanced between practical theatre and academic study of dramatic literature and theatre history. Our aim is to permit undergraduates to explore the subject as a liberal arts discipline and prepare them for graduate, professional, and conservatory schools.

The Department offers Major and Honours programs designed to expose students to all facets of theatre practice and study as well as provide them with the flexibility to orient their program towards a particular field of study: Dramatic Literature and Theatre History, Performance (acting, directing, and playwriting), and Production (technical, stage management, and design).

By the end of their final year, students will have had ample opportunity to work on the Department's season of productions in the Studio Theatre and Centennial Theatre (including at least three productions in the Studio, one mainstage production in Centennial during the second semester, the New Plays Festival and the student produced Theatre Activ). A number of students will also have had the opportunity to become Theatre Assistants for Centennial Theatre, receive an honorarium, and be responsible for the proper running of the facilities' operations.

Double Major: Secondary Education and Drama

Program requirements for students pursuing a Double Major in Secondary Education and Drama may be found under "School of Education" in the Academic Calendar. All questions concerning courses and requirements should be referred to the Chair of the School of Education.

B.A. Major in Drama

A total of 48 credits are required for the Major in drama. In their first two years, all drama Majors must adhere to the following required courses in their program:

1st Year *(12 credits)*

Fall: (DRA 101) Introduction to Technical Theatre, (DRA 102) Introduction to Theatre, (DRA 131) Acting I

Winter: (DRA 110) Introduction to Theatre Part II

2nd Year *(9 credits)*

Fall: (DRA 222) Introduction to Shakespeare

Winter: (DRA 201) Contemporary Canadian Theatre

After the second year the following seminar and production courses are required for all drama Majors (9 credits):

Seminar Courses: ***Two*** of (DRA 300) Contemporary Theatre Practice, (DRA 301) Contemporary Dramatic Theory, (DRA 302) Classical European Drama, (DRA 315) Medieval Drama, (DRA 322) Topics in Shakespeare, (DRA 319) Film Theory and Critcism

Production Courses: ***One*** of (DRA 331) Production I, (DRA 332) Production II

The remaining eighteen credits required for the Major in Drama may be taken at anytime during the student's tenure at Bishop's provided that he or she has fulfilled the stated prerequisites for the individual course.

Required Courses *(9 credits)*

One of (DRA 211) Ritual and Theatre, (DRA 212) Theatre and the State and (DRA 230) Women and Performance

One of (DRA 202) Contemporary American Drama, (DRA 203) Contemporary European Drama

One of (DRA 170) Introduction to Film, (DRA 271) Modern Drama, (DRA 273) Women Dramatists [or a cognate course]

Drama Electives *(12 credits)*

Four of all other drama courses (except independent studies)

Students must also complete any Divisional Requirements of the Division of Humanities.

B.A. Honours in Drama

Without Thesis *(60 credits*)*

Courses as required for a Drama major: .....48 credits
Further courses in Drama
(excluding independent studies): .....12 credits

With Thesis *(66 credits*)*

Students must obtain a 75% average, as calculated from the last 60 credits in the Honour discipline (including cognates), in order to graduate with an Honours degree in Drama.

Students wishing to enroll in DRA 450 (Honours Thesis) must have 75% cumulative average when registering in FALL semester, and 75% average on required courses in thesis area of interest.

Courses as required for Drama Major: .....48 credits
Further courses in Drama
(excluding independent studies): .....12 credits
DRA 450 Honours Thesis: .....6 credits

**All Honours students must complete both DRA 331 and DRA 332.*

Students must also complete any Divisional Requirements of the Division of Humanities.

Minor in Drama

A total of 24 credits are required for the minor in Drama:

Required courses:

DRA 101 Introduction to Technical Theatre
DRA 102 Introduction to Theatre
DRA 131 Acting I
DRA 201 Contemporary Canadian Drama
DRA 222 Introduction to Shakespeare

15 credits

Drama electives: Three courses **9 credits**

DRAMATIC LITERATURE AND THEATRE HISTORY

These courses are primarily concerned with the study of drama as literature or with the study of theatre history. Some of these courses may be used to satisfy the degree requirements of the Department of English.

All courses are open to non-Drama students.

DRA 102ab Introduction to Theatre: Theatre and Dramatic Literature Before 1800 3-3-0

This course provides students with an introduction to theatre history and to some of the important plays of various historical epochs. One of the focuses of the course is the socially created meaning of theatre, including interaction between audience and stage, the role of the theatre professional in society and the connections between theatre and political and religious institutions. The course will also introduce various theatrical styles. The dramas themselves are interpreted as blueprints for performance, not just as examples of literature.

DRA 110b Introduction to Theatre Part II: Theatre and Dramatic Literature After 1800 3-3-0

This course provides students with an introduction to the theatre history of the modern age and to some of the important plays of this era. The course will also introduce various theatrical styles, such as epic theatre, theatre of the absurd and naturalist theatre. The dramas themselves will be interpreted as blueprints for performance, not just as examples of literature. Among the playwrights included in the course are Henrik Ibsen, Anton Chekhov, Luigi Pirandello, Samuel Beckett, Caryl Churchill and Heiner Müller.
Professor Harries

DRA 201ab Contemporary Canadian Drama 3-3-0

Canadian drama from 1967 on, including the plays of Tremblay, French, Walker, Thompson and others.
Professor G. Rideout

DRA 202ab Contemporary American Drama 3-3-0

American playwrights and theatrical movements of the post-Viet Nam war period. Playwrights include Shepherd, Mamet, Rabe, Wasserstein.

DRA 203ab Contemporary European Drama 3-3-0

European drama since 1960 through examination of works of influential playwrights and dramatic theorists.
Professor Harries

DRA 211ab Ritual and Theatre 3-3-0

There is a persistent and complex relationship between theatre, the sacred and magic. This course explores this relationship through the study of performances/performers and texts from a spectrum of cultures and times. Students will study theories including Aristotle, Victor Turner and Eugenio Barba. Other Texts include Aoi no Uye, A Winter's Tale and Death and The King's Horseman.

DRA 212ab Theatre and the State 3-3-0

The political theatre in both senses of the phrase: what is the relationship between the stage of state and the theatrical stage? What legislation exists to restrict public performances and representations? How have performances in a variety of cultures and historical periods variously challenged and re-instated these cultural models?

DRA 222a Introduction to Shakespeare 3-3-0

Close study of four to six plays from the following: Richard III, Macbeth, A Midsummer Night's Dream, Henry IV pt. 1, Hamlet, Twelfth Night, Othello, The Tempest.
Professor G. Rideout

WOM 230 / DRA 230 Women in Performance 3-3-0

An analysis of the role women have played in the performing arts as practitioners, creators, producers and spectators with emphasis on the modern era and western cultures. The course takes a cultural studies approach to the subject and includes readings by feminist theorists, sociologists and cultural historians.

DRA 271ab Modern Drama 3-3-0

The major European drama and movements of the period from 1875-1910, including the works of Ibsen, Strindberg, Chekhov, among others.
Professor G. Rideout

DRA 273ab Women Dramatists 3-3-0

Discussion and analysis of a number of plays written by women. The plays will be studied in their cultural context and from the perspective of contemporary feminist theory.
Professor Harries

Seminar Courses

The following are seminar and research courses restricted to third- or fourth-year students. Students will be expected to do primary and secondary research work and present such work through class seminars and research papers.

DRA 300ab Contemporary Theatre Practice 3-3-0

Critical discussion, analysis, and research of contemporary theatre practice.
Professor Harries

DRA 301ab Contemporary Dramatic Theory 3-3-0

Critical discussion, analysis, and research of the major critical theorists and writings of the past twenty five years.
Professor Harries

DRA 302ab Classical European Drama 3-3-0

This course covers the important drama and critical works from France, Italy, Germany, and Spain during the seventeenth and eighteenth centuries.
Professor Harries

DRA 315ab Medieval Drama 3-3-0

This course covers the re-emergence and development of drama in Europe from the early to late Middle Ages. The religious drama of England and the Continent will be studied, as well as early examples of secular drama.

DRA 322ab Topics in Shakespeare 3-3-0

Advanced analysis and research on specific plays, as well as on specific critical texts and productions.

Interest Courses and Cognate Courses

DRA 170ab Introduction to Film 3-3-0
The creation of films and what happens when we view a film are complex and fascinating phenomena. The course provides a basic understanding of the vocabulary of and approaches to narrative cinema. Each week's subject of study is applied to a number of specific films.
Professor Harries

CLA 219a The Greek Tragic Theatre I 3-3-0
Myth and tragedy, origin and development of the Greek theatre; representative tragedies of Aeschylus and Sophocles, in translation.

CLA 220b The Greek Tragic Theatre II 3-3-0
Study of the later works of Sophocles and representative works of Euripides. (In translation)

ENG 334ab Restoration and Eighteenth-Century Drama 3-3-0
This course covers a wide range of English drama from Etherege through Behn to Sheridan to indicate both the shifting social tastes and the permissiveness of the theatre.
Professor Grogan

FRA 283ab Théâtre québécois 3-3-0
Évolution de la production dramatique au Québec depuis Marcel Dubé. Le théâtre de revendication sociale et politique, les happenings et le théâtre expérimental, le théâtre d'improvisation, le genre comique et la recherche contemporaine de nouvelles formes théâtrales. Dramaturges étudiés: Dubé, Tremblay, Meunier, Lepage, Gilles Maheux et Carbone 14, etc.
Professor Levasseur

FRA 261ab Le Théâtre du XVII^e^ au XIX^e^ siècle 3-3-0
Lecture et commentaire de pièces significatives du théâtre du XVII^e^, XVIII^e^ et XIX^e^ siècles. L'étude des divers genres (comédie, tragédie, drame, vaudeville) et des diverses esthétiques (classique, romantique) permettra de se familiariser avec les grandes tendances traditionnelles du théâtre.
Professeur Carle

PERFORMANCE AND PRODUCTION

These courses emphasize the performance and production aspects of theatre. DRA 101 and DRA 131 are required courses for Drama students. Most courses are open to non-Drama students but enrollment may be limited.

Acting

DRA 131ab Acting I 3-3-0
Acting One establishes a physical and vocal warm-up routine, develops public speaking skills, and explores the fundamentals of acting for the stage. Project work is based on individual presentations.
Professor J. Rideout

DRA 132b Acting II 3-3-0
Acting Two continues the focus on voice and movement. Students will begin character work, research, and scene study. Projects are partner based.
Prerequisite: DRA 131
Professor G. Tuck

DRA 233a Acting III 3-3-0
Approaches to text and character. The work is on a project and performance basis, some of which will be for presentation.
Prerequisite: DRA 132 and permission of the Department
Professor J. Rideout

DRA 234b Acting IV 3-3-5
Scene study and collective creation: analysis, rehearsal techniques and final presentation in Studio Theatre.
Prerequisite: DRA 233
Staff

DRA 237ab Theatre Lab 3-3-3
The course will focus intensively on the preparation and training of the physical means of acting. Workshops will concentrate on both voice and body movement exercises.
Prerequisite: DRA 234 and permission of the Department
Professor J. Rideout

DRA 334ab Text and Language 3-3-0
Students will explore the relationship between the written text and the spoken text. Source material will include prose and poetry as well as dramatic dialogue. There is no production attached to this course, but in-class presentations, open to the public, will be given on an informal basis
Prerequisite: DRA 234
Professor Tuck

DRA 439 Scene Study 3-3-0
Students will explore scenes from the great works of the theatre. Texts will generally be chosen from those studied in the dramatic literature courses. Three in house presentations will be given during the term.
Prerequisite: DRA 234 and permission of the instructor

DRA 440 Scene Study II 3-3-0
A senior level acting course that bridges the gap between the study of dramatic literature and full scale production. Each student in the class will have the opportunity to take on leading roles in scenes chosen from two stage classics. Scenes are sequenced so that students gain a greater understanding of the full text in performance. Students will also explore one text on acting theory and engage in related exercises.
Prerequisite: DRA 234 and permission of the instructor
Professor G. Rideout

Directing

We offer six credits in directing. The opportunity to direct a short play is provided by our New Plays and Theatre Activ festivals.

DRA 246a Introduction to Directing 3-3-0
The basic elements of directing a play, including interpretation, analysis, visual presentation, use of space, and rehearsal techniques.
Prerequisite: DRA 101, DRA 102, DRA 131 or permission of the Department
Professor Tuck

DRA 247b Directing Theory and Practice 3-3-0
Study in depth of major directorial problems. Each student directs short scenes.
Prerequisite: DRA 246 and permission of the instructor
Professor Tuck

Playwriting

Six credits of playwriting are offered. Student written plays are produced in New Plays Festival, and Theatre Activ. Enrollment is limited but a few places are open to non-Drama students.

DRA 281a Playwriting I 3-3-0
A course in play appreciation and play structure as well as a practical workshop in the writing of one-act plays. Assignments include text analysis, scene writing, and the creation of a complete short play.
Not open to 1st-year students.
Professor G. Rideout

DRA 282b Playwriting II 3-3-0
Classes take the form of standard playwriting workshop sessions. Each student will write an extended monologue, a series of dramatic sketches, and a one-act play. All work will be read and critiqued by other members of the group.
Prerequisite: DRA 281a or permission of the Department
Professor G. Rideout

Technical Theatre

DRA 101 is open to all students interested in theatre production. Enrollment in subsequent technical courses is limited.

DRA 101a Introduction to Technical Theatre 3-3-3
An introduction to the elements, processes, and systems of the stage environment through lectures and group tutorials.
M. Medland

DRA 250b Intermediate Technical Theatre Stagecraft 3-3-5
This course will examine in more detail several areas of study encountered in Introduction to Technical Theatre. In order to prepare students for more advanced courses, we will concentrate on the use of sound, lighting and scene shop equipment. We will also focus on basic drafting, set construction, scene painting and rigging.
Prerequisite: DRA 101
M. Medland

DRA 251ab Lighting Design 3-3-5
This course covers both the aesthetics and the techniques of stage lighting. In addition to exploring the theory and process, the students will design the lighting for Drama Department student productions.
Prerequisite: DRA 101 and permission of the Department
Staff

Design

Six introductory credits are offered in set and costume design. The two courses are offered in alternate years. Enrollment is limited. These courses are cognate courses and open to Fine Arts students.

DRA 161ab Introduction to Costume Design for Theatre 3-3-0
This course offers an introduction to the history, basic elements and practice of costume design. Course work will include both an investigation of the principles of design for theatre and an understanding of the practical elements of costume creation.

DRA 162ab Introduction to Scenography 3-3-0
This course offers an introduction to the history and development of scenography, text analysis, the principles and the process of scenography. Course work will include project-based designs as well as lecture/discussion in this field.

Production

These courses involve a major role or function in faculty directed productions in Studio or Centennial Theatres.

DRA 331a Production I: Performance 3-3-5
The course will consist of major involvement in and responsibility for Department production(s) in the areas of acting, stage management or directing. Productions will take place in the Studio Theatre.
Prerequisites: DRA 131, DRA 132, DRA 233, DRA 234
Staff

DRA 341a Production I: Technical Production 3-3-5
This course will consist of major involvement in and responsibility for Department production(s) in the areas of design, technical direction and production. Productions will take place in the Studio Theatre.
Prerequisites: DRA 101, DRA 131, either DRA 250 or DRA 251

DRA 332b Production II: Performance 3-3-5
The course will consist of major involvement in and responsibility for Department production(s) in the areas of acting, stage management or directing. Productions will take place in Centennial theatre; students will be required to work during Reading Week.
Prerequisite: DRA 131, DRA 132, DRA 233, DRA 234
Staff

DRA 342b Production II: Technical Production 3-3-5
The course will consist of major involvement in and responsibility for Department production(s) in the areas of design, technical direction and production. Productions will take place in Centennial Theatre; students will be required to work during Reading Week.
Prerequisites: DRA 101, DRA 131, either DRA 250 or DRA 251

Thesis

Honours students will undertake a thesis project under the supervision of one or more members of the Department

DRA 450f Honours Thesis 6-1-0 or 6-0-5
Thesis proposals must be submitted before classes begin for the academic year in which the thesis is to be completed.
Students undertaking a thesis in the area of Dramatic Literature and Theatre History will write a thesis-length research paper on a subject approved by the Department.
Students undertaking a thesis in the area of Production (acting and directing) will write a research paper related to their project and submit all materials related to that project.
Before planning a production thesis, students should thoroughly familiarize themselves with the document "Criteria for Acceptance of an Honours Thesis." (available from the chair of the Department.)
Staff

Independent Study

The Department offers a variety of independent study options for either Departmentally approved special projects or advanced work in theatre production or drama study. Students may register for a maximum of twelve independent study credits.

DRA 310ab Independent Study: Theatre Research and History 3-1-0
Advanced study of dramatic literature or theatre history.
Prerequisite: DRA 101, DRA 102, DRA 131, DRA 222 and permission of Department
Staff

DRA 337a Independent Study: Performance I 3-0-5
Advanced work in major role in faculty directed show.
Prerequisite: DRA 234, DRA 237, DRA 331
Staff

DRA 339b Independent Study: Performance II 3-0-5
Advanced work in major role in faculty directed show.
Prerequisite: DRA 234, DRA 237, DRA 331
Staff

DRA 350a Independent Study: Theatre Production I 3-0-5
Advanced work in theatre production; major responsibility for production function in Studio Theatre show.
Prerequisite: DRA 331 and permission of the Department
Staff

DRA 351b Independent Study: Theatre Production II 3-0-5
Advanced work in theatre production; major responsibility for production function in Studio or Centennial Theatre show.
Prerequisite: DRA 332 and permission of the Department
Staff

DRA 352ab Independent Study: Stage Management 3-0-5
Advanced work in stage management; responsibility for stage managing a faculty directed show.
Prerequisite: DRA 250, DRA 254, DRA 331 or DRA 332 and permission of the Department
Staff

DRA 363ab Independent Study: Design 3-0-5
Advanced work in set, lighting, or sound design; major responsibility for design of faculty directed show.
Prerequisite: DRA 251 or DRA 262, DRA 331 or DRA 332 and permission of the Department
Staff

DRA 365ab Independent Study: Costume Design 3-0-5
Advanced work in costume design; major responsibility for design of faculty directed show.
Prerequisite: DRA 160 and DRA 331 or DRA 332 and permission of the Department
Staff

DRA 370ab Independent Study: Special Project 3-0-5
Advanced work on a Departmentally approved special project.
Prerequisite: DRA 331 or DRA 332 and permission of the Department
Staff

DRA 380ab Independent Study: Playwriting 3-0-5
Advanced work in playwriting. Interested students must submit a completed first draft two weeks prior to registration.
Prerequisite: DRA 282
Staff

The Minor in Film Studies

The Minor provides an introduction to the study of film through the increasingly rich, interdisciplinary approach that now defines this field. Film courses are typically taught in the cinema classroom (Nicolls 4), which is equipped with excellent projection and sound equipment, as well as cinema seating. The Film Minor requires the completion of 24 credits from the following list of courses:

CLA 150	The Ancient World in Film and Television
DRA 170	Introduction to Film
DRA 172	Canadian Cinema
DRA 319	Film Criticism and Theory
ENG 102	Approaches to Media Studies
ENG 106	Approaches to Literary Criticism
ENG 234	Contemporary Critical Theory
ENG 235	History, Theory, and Practice of Cultural Studies
ENG 278	Science Fiction in Literature and Film
ENG 280	Classics of the Post-War Cinema
ENG 282	Film Adaptation
ENG 283	The Documentary Film
ENG 284	Film Noir
ENG 287	Image and Communication
ENG 288	Crime Pays: The Gangster Film Genre
ENG 289	Film History
ENG 291	Film Theory
ENG 293	Four Filmmakers
ENG 294	Film Comedy
ENG 295	Jane Austen and Film
ENG 297	From Aliens to Zombies
ENG 298	Studies in Directors/Actors: Alfred Hitchcock
ENG 381	The Evolution of the Fairy Tale in Literature and Film
ENG 382	Screenwriting
ENG 383	Digital Filmmaking
GER 370	Introduction to German Film
GER 371	East German Cinema: From rubble Films to Ostalgie
HIS 332	The Celluloid Republic
ITA 309	Italian Cinema and Society
ITA 310	Italian Cinema and Society II
MUS 102	Music for the Movies
PHI 247	Philosophy and Film
REL 237	Film and Religion
SOC 105	Media and Society I
SOC 241	Cinema
SPA 318	Spanish Cinema
SPA 333	Hispanic Literature and Film

The courses listed above are rotated and may not be offered every year. Students may do any 8 courses from the list to complete the requirements for the Minor. The Director of the Film Studies Program is Dr. Steven Woodward (English). Students who want further information may contact the Director in Morris House.

English

Within the liberal arts environment of Bishop's University, the Department of English offers a diverse range of courses and programs to help students to develop their critical appreciation of texts of all kinds (literature, film, television, etc.), and to broaden their understanding of culture and its relationship to the individual, from historical and theoretical perspectives. Students of English develop analytical, research, and communication skills that are well-suited to many careers in today's information economy. Recent graduates have pursued graduate studies and careers in fields as diverse as teaching English, advertising and marketing, film-making, law, politics, publishing, television, education, journalism, and business communications.

The Program

The program has a three-tier structure. Entering students complete a foundation year, which consists of four core courses designed to develop critical approaches to texts, an historical understanding of the evolution of English literatures, and research and writing skills. 200-level courses cover particular historical periods and literary genres as well as literary theory, film, and creative writing. 300-level courses are seminars with an emphasis on student participation.

English Majors (with the exception of students in the Double Major in Secondary English and Education) should normally (in their second semester) choose from one of five Concentrations:

The **Literature Concentration** offers a well-rounded education that challenges the student to read a diversity of British, Canadian, American, Irish, and Postcolonial literatures. Presentation of the literature of early and more recent periods enables students to read texts in context and to understand more fully the ways in which people in different circumstances have organized their thoughts and their lives. In consultation with their English faculty advisor, students in the Literature Concentration may elect to enter the English Honours Literature program.

The **Cultural and Media Studies Concentration** is built upon the idea that the full range of cultural products and practices in any particular historical period—whether they be contemporary science-fiction films, the rock 'n' roll music of the 1950s, or bear-baiting in the Elizabethan period—are worthy of the same kind of careful study that has been traditionally reserved for literature. Students taking this option use interdisciplinary approaches to investigate how our ideas of both the world and ourselves are built from a rich interplay of representations in a wide variety of media. In consultation with their English Faculty advisor, students in this concentration may elect to enter the Honours program in Film, Media, and Cultural Studies.

The **Film Studies Concentration** is designed for those students who want to understand film as the storytelling and artistic medium that has arguably had the greatest impact on popular culture

in the last hundred years. Film students develop a rich awareness of the historical development of the medium and the theoretical frameworks that critics have used to try to understand how film represents the world and affects audiences. They have the opportunity to study Hollywood, independent, foreign, and avant-garde films from a wide variety of perspectives, since film courses are offered by many different disciplines at Bishop's (Drama, Music, Religion, Modern Languages and Sociology), and even to develop their own skills as screenwriters. In consultation with their English Faculty advisor, students in this concentration may elect to enter the Honours program in Film, Media, and Cultural Studies.

The **Popular Narrative Concentration** gives students the opportunity to think about the centrality of storytelling to human culture. By studying narrative in a variety of forms and media, from oral folk stories, through novels, plays, and short stories, to contemporary film, television, graphic novels, and video games, students develop a rich understanding of narrative form, of the limitations and possibilities of different media, and of the social functions and effects of storytelling. In consultation with their English faculty advisor, students in this concentration may elect to enter the Honours program in Literature or in Film, Media, and Cultural Studies.

Foundation Year

The three Foundation Year courses taken by all English Majors and Honours students are:

ENG 105, "Approaches to Poetry"; ENG 112, "English Literary Tradition: The Middle Ages and the Renaissance"; and ENG 113, "English Literary Tradition: The Eighteenth Century to the Present".

The fourth Foundation year course is ENG 106 for Literature Concentration; ENG 102 for Film Studies Concentration; ENG 106 or ENG 102 for Cultural and Media Studies Concentration and Popular Narrative Concentration.

English Major

1) Literature Concentration

Students in the English Major, Literature Concentration, take at least 48 credits in English, including the Foundation year courses (12 credits), twelve additional credits in English Literature before 1900, including 3 credits in non-dramatic literature before 1660 (i.e. at least one of the following: ENG 310, ENG 311, ENG 314, ENG 315, ENG 316, ENG 320, ENG 321, ENG 325), and 24 credits of English electives.

2) Cultural and Media Studies Concentration

Students in the English Major, Cultural and Media Studies Concentration, take at least 48 credits in English, including the Foundation year courses (12 credits), ENG 235, "Cultural Studies: History, Theory, Practice" (3 credits), five core electives (15 credits) chosen from ENG 110, ENG 115, ENG 118, ENG 121, ENG 200, ENG 201, ENG 202, ENG 203, ENG 204, ENG 210, ENG 211, ENG 212, ENG 217, ENG 218, ENG 219, ENG 220, ENG 228, ENG 229, ENG 230, ENG 231, ENG 233, ENG 234, ENG 236, ENG 239, ENG 278, ENG 280, ENG 282, ENG 283, ENG 284, ENG 285, ENG 286, ENG 287, ENG 288, ENG 289, ENG 290, ENG 291, ENA 293, ENG 293, ENG 294, ENG 295, ENG 296, ENG 297, ENG 298, ENG 352, ENG 353, ENG 358, ENG 359, ENG 375, ENG 381, ENG 382, ENG 383, ENG 385 and any 6 additional English courses (18 credits). Students may substitute up to two of the following courses from other disciplines as core electives: SOC 105, SOC 229, SOC 241, SOC 280, SOC 281, SOC 381; DRA 170, DRA 172, DRA 281, DRA 282, DRA 319; GER 370, GER 371; REL 237; SPA 318, SPA 333; and HIS 332, HIS 371; ITA 309, 310; CLA 150; MUS 102; PHI 247

3) Film Studies Concentration

Students in the English Major, Film Studies Concentration, take at least 48 credits in English, including the Foundation year courses (12 credits), ENG 235, ENG 289, ENG 291 and DRA 170 (12 credits), and 8 film courses (24 credits) chosen from ENG 278, ENG 280, ENG 282, ENG 283, ENG 284, ENG 287, ENG 288, ENG 290, ENG 291, ENG 293, ENG 294, ENG 295, ENG 297, ENG 298, ENG 381, ENG 382, ENG 383 and DRA 172 or DRA 319. Students may substitute up to two of the following courses from other disciplines as cognates to fulfill the required 24 credits of English film courses: CLA 150, GER 370, GER 371, HIS 332, ITA 309, ITA 310,PHI 247, REL 237, SOC 241, SPA 318, SPA 333, MUS 102

4) Popular Narrative Concentration

Students in the English Major, Popular Narrative Concentration, take at least 48 credits in English, including the Foundation year courses (12 credits), ENG 236 (3 credits), and 11 electives (33 credits) from: DRA 170, DRA 172, ENG 212, ENG 217, ENG 218, ENG 219, ENG 220, ENG 235, ENG 278, ENG 280, ENG 282, ENG 283, ENG 284, ENG 285, ENG 286, ENG 287, ENG 288, ENG 289, ENG 290, ENG 291, ENG 293, ENG 294, ENG 296, ENG 297, ENG 298, ENG 359, ENG 375, ENG 381, ENG 382. Six (6) of the required credits in this category may be chosen from the following cognates: CLA 150, FRA 287, FRA 290, GER 370, GER 371, HIS 332, ITA 309, ITA 310, MUS 102, PHI 247, REL 237, SOC 241, SPA 318, SPA 333

5) Double Major: Secondary Education and English

Program requirements for students pursuing a double major in Secondary Education and English may be found under "School of Education" in the Academic Calendar. All questions concerning courses and requirements should be referred to the Chair of the School of Education.

Honours in Literature

The Honours in English Literature is designed for students who wish to specialize in the study of English Literature, especially with the goal of continuing to study the subject at the graduate level. Students in this program take at least 60 credits in English, including the Foundation year courses (12 credits), at least three credits from each of the following 10 areas (30 credits) listed below, four elective English courses (12 credits), and either the Honours Thesis (6 credits) ENG 470 or two additional English courses from the 200 or 300 level (6 credits) in its place.

Areas:

1) Anglo-Saxon or Middle English: 310, 311, 314, 315, 316
2) -Sixteenth and Seventeenth Century: 223, 224, 320, 321, 325, DRA 222

3) Eighteenth Century: 332, 390
4) Romantic: 342, 347, 348
5) Victorian: 254, 255, 350, 351
6) Twentieth-Century British: 250, 251, 360, 361
7) Canadian: 252, 253, 275, 352, 358, 359
8) American: 256, 257, 353, 356, 357
9) Postcolonial: 228, 229, 230, 231, 358, 375
10) Critical Theory: 233, 234, 235, 236, 239, 353

Honours In Film, Media, And Cultural Studies

The Honours in Film, Media, and Cultural Studies is designed for students who wish to specialize in these areas, especially with the goal of continuing to graduate studies.

Students in this program take at least 60 credits in Film, Media, and Cultural Studies, including the Foundation year courses (12 credits), Core Courses (15 credits), five elective courses in Cultural and Media Studies (15 credits) and four elective courses in Film Studies (12 credits), and either the Honours Thesis (6 credits) or two additional courses in Film, Media, or Cultural Studies at the 200 or 300 level (6 credits).

Foundation Year Courses: (12 credits): ENG 102 or ENG 106, ENG 105, ENG 112, ENG 113.

Core Courses: (15 credits): DRA 170, ENG 235, ENG 280, ENG 289, ENG 291.

Elective Courses in Cultural and Media Studies (15 credits): ENG 217, ENG 218, ENG 219, ENG 220, ENG 228, ENG 236, ENG 278, ENG 285, ENG 286, ENG 287, ENG 290, ENG 296, ENG 352, ENG 353, ENG 358, ENG 359, ENG 375, ENG 383, ENG 385. Six of the required credits in this category may be chosen from the following cognates: HIS 371, SOC 105, SOC 229, SOC 381

Elective Courses in Film Studies (12 credits): ENG 282, ENG 283, ENG 284, ENG 288, ENG 293, ENG 294, ENG 295, ENG 297, ENG 298, ENG 381, ENG 382, ENG 383, DRA 172, DRA 319. Six of the required credits in this category may be chosen from the following cognates: GER 370, GER 371, HIS 332, ITA 309, ITA 310, REL 237, SOC 241, SPA 318, SPA 333, CLA 150, MUS 102, PHI 247

Honours Essay in Film or Cultural and Media Studies (6 credits): ENG 470.

OR

Any two **English courses in Film, Media, or Cultural Studies** at the 200 or 300 level (6 credits).

As per Humanities Division guidelines, students must attain an average of 70%, calculated on the best 60 credits in the program (including cognates) in order to graduate with an Honours degree.

Cognates

Students in the Honours programs and the Major Concentrations in Literature and Education may count Drama courses in English Literature and Education 211 "Introduction to Young Adult Literature" as satisfying English requirements, subject to the approval of the Department. Courses in Classical, French, German, Spanish and Italian literatures, as well as mythology and the Bible may also be considered as cognates. No more than two cognate courses (6 credits) may be counted as part of the English Major or Honours requirements.

Minor

For students in any discipline at Bishop's who, in addition to their major concentration, wish to develop a secondary area of expertise in one of the fields offered through the English Department, we offer three different minors:

The **Literature Minor** allows students to sample from the many different subject areas offered through the English department. Students must complete any 24 credits of their choice, none of which may be cognate courses.

The **Film Studies Minor** allows students to study film from a variety of different perspectives. Students complete 24 credits in film studies, choosing from courses offered by English and by a wide range of other departments at Bishop's.

The **Creative Writing and Journalism Minor** is designed to help aspiring writers develop their creative abilities through the practice of writing as a discipline and vocation. Courses focus on the technical aspects of various forms of writing, including poetry, screenwriting, playwriting, journalism, fiction, and creative non-fiction. In addition, students must complete a senior seminar with a professional writer. Internships with a newspaper or literary journal will be made available. Students are also expected to participate in the rich writing life at Bishop's, which includes two student drama festivals, the Morris House Reading Series, creative writing competitions, *The Mitre,* student-run creative writing groups and *The Campus* newspaper. By the end of their studies, students will have amassed a portfolio of creative works and made business contacts with professional writers.

Courses: 24 credits from the following courses, including at least one senior seminar:

DRA 281	Playwriting I
DRA 282	Playwriting II
ELA 116	Effective Writing
ELA 201	Advanced Composition
ELA 202	Speech
ENG 104	Approaches to Short Fiction
ENG 105	Approaches to Poetry
ENG 200	Creative Writing: Lyric Poetry
ENG 201	Creative Writing: Short Fiction
ENG 203	Creative Writing: Experiments in Prose
ENG 204	Creative Writing: Experiments in Poetry
ENG 282	Film Adaptation
ENG 382	Screenwriting
ENG 285	Journalism
ENG 286	On-Line Journalism
ENG 290	The New Journalism
ENG 296	Sports Writing
ENG 385	Journalism Editing and Ethics
ENG 450	Experiential Learning: Journalism
ENG 454	Experiential Learning: Broadcast Journalism
ENG 458	Experiential Learning: Literary Journal Editing
ENG 461	Senior Seminar: Poetry
ENG 462	Senior Seminar: Fiction
ENG 463	Senior Seminar: Screenwriting
ENG 464	Senior Seminar: Journalism

The senior seminar will be taught each year by a specialist in creative writing or journalism.

Certificate in Cultural and Media Studies

Description and Objectives:

Since the 1980s, both Media and Cultural Studies have gained academic standing as separate but closely connected disciplines. The interdisciplinary Certificate in Cultural and Media Studies, designed to appeal to students with a variety of academic interests, provides an opportunity to study how culture is made, consumed, and experienced through such media as literature, print journalism, the internet, photography, and film. The aim of the program is to combine a theoretical understanding of culture with an ability to appreciate media texts as aesthetic forms engaged with broader cultural issues, everything from childhood, gender, and race, to power and national identity.

Admission requirements: *(See Regulations for Certificate Programs)*

Program Structure:

Students must take ten courses for a total of 30 credits, choosing their courses from four areas:

I. One Course in Theory *(3 credits)*

DRA 319	Film Criticism & Theory
ENG 102	Approaches to Media Studies
ENG 106	Approaches to Literary Theory
ENG 234	Contemporary Literary Theory
ENG 235	Cultural Studies: History, Theory, Practice
ENG 239	Feminist Literary Theory
ENG 291	Film Theory
PHI 364	Post-Modernism

II. Three or Four Courses in Film/Photography *(9 or 12 credits)*

DRA 170	Introduction to Film
DRA 172	Canadian Cinema
ENG 280	Classics of the Post-War Cinema
ENG 282	Film Adaptation
ENG 283	The Documentary Film
ENG 284	Film Noir
ENG 288	Crime Pays: The Gangster Film Genre
ENG 289	Film History
ENG 290	The New Journalism
ENG 293	Four Filmakers
ENG 294	Film Comedy
ENG 295	Jane Austen and Film
ENG 297	From Aliens to Zombies
ENG 298	Studies in Directors/Actors: Alfred Hitchcock
ENG 381	The Evolution of the Fairy Tale in Literature and Film
ENG 383	Digital Filmaking
FIH 108	History of Photography
FIN 182	Photography I
FIN 296	Photography II
FIN 302	Photography III
GER 370	Introduction to German Film
GER 371	East German Cinema: from Rubble Films to Ostalgie
HIS 332	The Celluloid Republic
MUS 102	Music for the Movies
PHI 247	Philosophy and Film
SOC 241	Cinema
SPA 318	Spanish Cinema
SPA 333	Hispanic Literature and Film
REL 237	Film and Religion

III. Two courses in Media/Communication *(6 credits)*

ENG 236	Popular Culture
ENG 287	Image and Communication
HIS 371	A History of Communications
SOC 229	Communications: Gender and Culture
SOC 280	Interpersonal Communication
SOC 281	Communications Methods

IV. Three or Four Courses in Writing/Literature/Journalism *(9 or 12 credits)*

DRA 281	Playwriting I
DRA 282	Playwriting II
ENG 118	Literature of the Environment
ENG 121	The Panther's Gaze: Humans and Animals in Literature
ENG 200	Creative Writing: Poetry
ENG 201	Creative Writing: Prose
ENG 203	Creative Writing: Experiments in Prose
ENG 204	Creative Writing: Experiments in Poetry
ENG 210	History of Children's Literature
ENG 211	Cultural Spaces of Childhood: Investigating Children's Popular Culture
ENG 217	Arthurian Tradition
ENG 228	Introduction to Post-Colonial Literature
ENG 230	Studies in Postcolonial Literatures: Africa
ENG 231	Studies in Postcolonial Literatures: The Caribbean
ENG 278	Science Fiction
ENG 285	Journalism
ENG 358	Approaches to Indigenous Literature
ENG 375	Colonial Narratives
ENG 286	On-Line Journalism
ENG 296	Sports Writing
ENG 382	Screenwriting
ENG 385	Journalism, Editing and Ethics

ENG 102ab Approaches to Media Studies 3-3-0

Through a close examination of the different forms of contemporary culture people are frequently exposed to and consume – movies, TV sitcoms, internet blogs, pop music, and so on – this course considers how our understandings of reality and our perceptions about society and our identities are shaped by the various media that surround us. Informed by both cultural theory and the history of media, this course offers a series of case studies of media texts with the goal of helping students understand the nature and effects of our contemporary media culture.

Offered every winter

Professor Woodward

ENG 103 Studies in Comparative Literature: The Novella 3-3-0

This course offers a survey of the novella in European literature with a focus on important themes ranging from foiled love to troubled identity. The course will consider the origins of the novella (Boccaccio, Salernitano etc.) and then examine a variety of works in Italian, German, Danish, French and English literature. Works to be considered include Stevenson's *Jekyll and Hyde*, Mann's *Death in Venice*, Dinesan's *Babette's Feast*, Kafka's *Metamorphosis*, Camus's *The Outsider*, Conrad's *Youth*, Orwell's *Animal Farm*, Calvino's *The Watcher* and other selected stories.

ENG 104ab Approaches to Short Fiction 3-3-0
This course introduces students to the study of fiction through the analysis of short stories and novellas from various literary traditions and historical periods. Stories will be discussed in terms of such aspects of fiction as plot, character, setting, point of view, voice, discourse, tone, symbol, and theme.
Offered every year

ENG 105ab Approaches to Poetry 3-3-0
This course introduces students to the study of poetry through the analysis of a variety of short poems from different historical periods. Poems will be discussed in terms of their diction, imagery, figures of speech, rhyme, rhythm, metre, tone, speaker, structure, and form. Some attention will be given to interpreting a poem in the context of the poet's other works, literary tradition, criticism, revisions, history, or culture.
Offered every year

ENG 106ab Approaches to Literary Theory 3-3-0
This course is designed to expand terms of critical thinking and literary analysis through an introduction to contemporary interpretive strategies. We begin by considering what we mean by "literature" and why we study it critically, then open texts to a variety of theoretical perspectives, including semiotics, deconstruction, psychoanalysis, feminism, Marxism and cultural theory.
Offered every winter

ENG 108ab The American Short Story 3-3-0
This course examines the development of the short story form in the United States from its beginnings in the work of Irving, Poe, and Hawthorne, through Fitzgerald and Hemingway, up to such contemporary writers as Oates and Barth. Subjects to be examined include the Gothic tradition, the influence of Puritanism, the African-American experience, gender, and madness.

ENG 110ab English Writers of Quebec 3-3-0
Selected short stories, novels, plays, and poems of such writers as Hugh MacLennan, Mordecai Richler, Brian Moore, Joyce Marshall, Ralph Gustafson, David Fennario, A.M. Klein, F.R. Scott, and Irving Layton will be studied. Such topics as "English-French Relations," "The Immigrant Experience," "Male-Female Relationships," "Class Conflicts," and "The Jewish Experience" will be examined.

ENG 111ab Canadian Short Story 3-3-0
This course will examine a wide variety of Canadian short stories, from the late nineteenth century until the present. The authors studied range from Roberts and Callaghan, to such contemporary writers as Munro, Atwood, Glover, and Vanderhaeghe.
Offered every year

ENG 112a English Literary Tradition: The Middle Ages and the Renaissance 3-3-0
An introductory historical survey of major works and genres of British literature from its beginnings to the Restoration. Students will analyze literary works within their historical, social, and cultural contexts. The course emphasizes close reading of individual texts.
Offered every Fall

ENG 113b English Literary Tradition: The Eighteenth Century to the Present 3-3-0
This course provides an introductory survey of major works and genres of British literature from the Restoration to the end of the Twentieth century. Close reading of individual texts will be informed by analysis of their historical, social, and cultural contexts.
Offered every Winter

ENG 115ab Women Writers before 1900 3-3-0
A survey of literature in English by women from the Middle Ages until the beginning of the twentieth century in the perspectives of feminist critical theory. The course includes poetry, fiction, and nonfictional prose.

ENG 118 Literature of the Environment 3-3-0
Since the "discovery" of the New World by Europeans, some of our most important literature has taken as its subject the natural environment in which we live: its importance to our sense of self; how we choose to preserve, use, alter, or destroy it; and the impact these things will have on our lives and future. In this course we will read a range of fiction, poetry, criticism, and literary non-fiction by American and Canadian writers treating the relationship of humans to the natural world.

ENG 122 Introduction to Russian Literature 3-3-0
This course will introduce students to Russian literature (in translation) through a close reading of a selection of novels, poems and short stories.
Only offered in the spring

ENG 123ab Introduction to Indigenous Literature in Canada 3-3-0
This course is an introduction to traditions and innovations in Indigenous literature in Canada through textual analysis and an examination of cultural contexts. The primary focus will be on contemporary literature; however, we will also read selections from earlier texts. We will explore how Indigenous writers draw from European, American, and Indigenous traditions, and how their more recent works reflect histories of struggle both in style and content. Although written texts will form the core of the course, we may also examine contemporary popular media—especially film—and their representations of the Indigenous.

ENG 200ab Creative Writing: Poetry 3-3-0
A workshop seminar for students interested in writing poetry.
Not open to 1st year students

ENG 201ab Creative Writing: Prose 3-3-0
A workshop seminar for students interested in writing fiction.
Not open to 1st year students

ENG 202ab History of the English Language 3-3-0
A survey of the transformations of the English language from its beginnings to the present studied in the context of the major social, political, and literary developments in English history. The course includes an introduction to basic linguistic concepts as applied to the study of the English language and an overview of Canadian English.

ENG 203 Creative Writing: Experiments in Prose 3-3-0
A practical course in writing a variety of fiction and non-fiction prose forms. Work will be edited and critiqued in workshop sessions by peers and the instructor.
Not open to 1st year students

ENG 204 Creative Writing: Experiments in Poetry 3-3-0
A practical course in writing a variety of poetic forms. Work will be edited and critiqued in workshop sessions by peers and the instructor.
Not open to 1st year students

ENG 210ab History of Children's Literature 3-3-0
An historical and critical study of children's literature in English. The course includes an overview of the history of children's literature and introduces students to the critical analysis of a variety of its genres, including nursery rhymes, folk and fairytales, myths and legends, fables, poetry, and "classic" novels. Some of the issues to be discussed may include didacticism, oral and written discourse, appropriation, the development of special literature for children, and the representation of social issues.
Offered every year.

ENG 212ab Popular Narrative: Crime Stories - The Great Detectives 3-3-0
An exploration of the development of narratives dealing with crime and punishment from some of its earliest manifestations as pulp fiction or popular reading to sophisticated modern fiction that continues to dominate the best-seller lists. Assigned texts cover both British and North American crime writing in order to demonstrate the evolution of different conventions and themes of the genre. The course will also explore how detective fiction in particular can reveal or even subvert the dominant ideology and culture of its time and place.

ENG 217ab Popular Narrative: The Arthurian Tradition 3-3-0
A survey of the evolution of the mythic romance of King Arthur and the Knights of the Round Table from its earliest beginnings to modern times. Various works representative of the tradition will be selected from different historical periods and from different media, including film and the visual arts as well as literature.

ENG 218ab Popular Narrative: The Gothic Tradition 3-3-0
In this course, we shall read representative texts from a wildly popular genre that emerged in the late eighteenth century: the Gothic! Beginning with an examination of the medieval connotations of the term "gothic" and its resonances in 18th, 19th, and 20th century aesthetics, our reading will consider the form, readership, and social vision of various types of gothic literature.
Professor Grogan

ENG 219 Popular Narrative: The Graphic Novel 3-3-0
This course will introduce students to the genre of the Graphic novel and will examine visual rhetoric in literature, history, journalism and popular culture. Possible topics include superhero fantasy, gender stereotypes, sexuality, war, racism and drug abuse.

ENG 220 Popular Narrative: Fantasy 3-3-0
This course will explore the genre of fantasy in literature and film either through study of several works by a particular individual (Tolkien, Pulman) or a theme present in a selection of works by different authors.

ENG 223b Elizabethan Shakespeare (1590-1603) 3-3-0
Close study of six plays written and performed in the reign of Elizabeth in relation to the theatrical, social, political, and cultural practices of Elizabethan society and the Elizabethan court.
Professor Riddell

ENG 224b Jacobean Shakespeare (1603-1614) 3-3-0
Close study of six plays written and performed in the reign of James I in relation to the theatrical, social, political, and cultural practices of Jacobean society and the Jacobean court.
Professor Riddell

ENG 225 The Stratford "Shakesperience" 3-3-0
The focus of the course will be the analysis of 4-5 Shakespeare plays as they are illuminated by performance in the Spring season of the Stratford Festival in Stratford, Ontario. The course will start with an intensive two weeks in the classroom, and involve a discussion of the theoretical questions that underlie performance and performance criticism. Together as a class, we will explore the themes of the plays, engage in careful analysis and close reading, and compare various filmic versions of important scenes within the plays.
Professor Riddell

ENG 228 Introduction to Post-Colonial Literature 3-3-0
This course is an introduction to post-colonial literature and theory. We begin with a discussion of what "post-colonial" means to writers of countries formerly colonized by the British before moving into literatures composed by writers from Africa, Australia, the Caribbean, India, Ireland, and the Pacific.
Professor Malley

ENG 233ab The History of Literary Theory 3-3-0
A general history of critical theory from Plato to Sontag, examining the origins and development of various trends in criticism and suggesting their inter-relations. Special attention is paid to Plato, Aristotle, Sidney, Dryden, Johnson, Coleridge, Arnold and Marx.
Professor Grogan

ENG 234ab Contemporary Literary Theory 3-3-0
This course explores diverse topics and debates in contemporary literary criticism. The student will examine the assumptions, intentions and rhetoric of representative critical texts and theoretical schools. Practical application of literary theory to texts is emphasized.
Prerequisite: ENG 106 or permission of the instructor
Professor Grogan

ENG 235a Cultural Studies: History, Theory and Practice 3-3-0
This course is an introduction to the historical development and theoretical methodologies of cultural studies as an interdisciplinary field of academic inquiry. We will investigate the processes by which the "literary text" has been extended to and participates within a broader array of cultural products. We will pay careful attention to the transformations of popular culture into highly commercialized mass culture and to the role of new representational technologies that have effected this change (advertising, film, television, internet, music, etc.), as well as their power to produce beliefs and create identities.
Prerequisite: One of ENG 102, ENG 106, ENG 234, ENG 236, SOC 105 or permission of instructor
Offered every year
Professor Malley

ENG 236ab Popular Culture 3-3-0
A very large portion of contemporary culture is mass culture, and mass culture has generally been disparaged by intellectuals from the early 20th century on. More recently, however, critics have begun to celebrate the utopian possibilities of mass culture, the way that individuals actually put mass cultural products to use, converting mass culture (culture produced for the masses) into popular culture (a culture used by the people). The tension between these two views of contemporary culture will underpin this course as we examine theories about and practices of popular culture, including advertising, movies, romances and comics, sitcoms and soap operas, stardom and fandom, blogging and online shopping, and pornography.
Prerequisites: ENG 102, ENG 106, or permission of the instructor
Professor Woodward

ENG 238ab Confessions, Memoirs and Life Writing 3-3-0
This course will begin with the explosion in confessions, memoirs and life writing in the 18th century and then move through later works in the 19th and 20th centuries. As we read these works we will consider how fact and fiction merged in presentations of self to challenge the reader, society, and literary genres.
Professor Grogan

ENG 239ab Feminist Literary Theory 3-3-0
A survey of contemporary feminist theory, including feminist literary history, the economic and social conditions of women writers, the connections between gender and genres, the distinguishing characteristics of feminist and women's reading and writing, and feminist debates about subjectivity.
Professor Morra

ENG 250ab The Modern British Novel: Experiments in Fictional Form 3-3-0
This course examines the way British novelists of the early twentieth century created new fictional forms to explore the interior life of their characters as well as the problems of their day. Novelists such as Conrad, Ford, Woolf, Forster, Lawrence, Huxley, and Waugh will be studied in relation to a variety of topics, including Imperialism, anarchism, the Suffragette movement, the Great War, psychoanalysis, science and technology, the rise of Fascism, and class conflicts.
Professor Brophy

ENG 251ab The British Novel After 1930: Darkness Made Visible 3-3-0
This course examines the development of the British novel after the Modernist Period. Novelists such as Greene, Golding, Amis, Murdoch, Fowles, White, and Ishiguro will be studied in relation to a variety of topics, including World War II and the holocaust, the end of Empire, the idea of the hero, the political unconscious, communism, higher education, and gender and identity.
Professor Brophy

ENG 252 English-Canadian Literature to the First World War 3-3-0
This course explores English Canadian literature from the nineteenth century through to the First World War. Analysis focuses on the development of national identities in relation to various cultural, political, social and historical factors.
Professor Morra

ENG 253 English-Canadian Literature from the First World War to the Present 3-3-0
This course explores English Canadian literature from the First World War to the present. Analysis focuses on the aesthetic and cultural developments in English Canada and the impact of international, national, and regional issues.
Professor Morra

ENG 254ab The Early Victorian Novel and the Condition of England 3-3-0
This course examines the way novelists such as the Brontë sisters, Thackeray, Dickens, Gaskell and Trollope represent their moment in history as "the best of times, the worst of times." The focus will be on how the novel emerged as the dominant literary genre and challenged the Victorian faith in progress.
Professor Brophy

ENG 255ab The Late Victorian Novel: Beauty and the Beast 3-3-0
This course examines the way the late Victorian novel responded to the scientific idea of nature while reviving the romance as a fictional form. Novelists such as Eliot, Butler, Collins, Stevenson, Hardy, and Wilde will be studied in relation to a variety of topics: Darwinism and evolution, the Unconscious, Empire, the New Woman, aestheticism, the Dandy, and decadence.
Professor Brophy

ENG 256ab The Early Twentieth-Century American Novel 3-3-0
The modern American novel to 1955. Such novelists as Fitzgerald, Hemingway, Faulkner, West, Steinbeck, Ellison, and Hurston will be studied. Among the topics to be considered: "The American Dream," religion, society, black-white relations, and war.
Professor Morra

ENG 257ab The Contemporary American Novel 3-3-0
This course focuses on the contemporary American novel, 1960 to the present. Of particular note will be the postmodern novel and the manner by which it reacts to and shifts away from the literature of the modern period. Depictions of popular culture and satiric renderings of high culture will form part of the discussion.
Professor Morra

ENG 275ab The Contemporary Canadian Novel 3-3-0
The contemporary novel, from the 1970 to the present. The novelists to be studied may include Atwood, Laurence, Munro, Davies, Ondaatje, Hodgins, and Shields. Topics to be considered may extend to the role of women, the masculine image, history and myth, sainthood, the portrait of the artist.
Professor Morra

ENG 278ab Science Fiction in Literature and Film 3-3-0
An examination of the futuristic worlds of science fiction as they focus on rather than distract readers from prevalent cultural anxieties and concerns. Students shall consider how science fiction as a symbolist genre variously constructs and deconstructs hegemonic cultural practices within our present digital, networked, information age. Taking an interdisciplinary approach, students shall consider both the history and form of science fiction and some of the theoretical and cultural issues endemic to the genre.
Professor Malley

ENG 280ab Classics of the Post-War Cinema 3-3-0
This course offers a close study of seven film classics, including their literary sources and/or screenplays, from the late 1940s to the end of the twentieth century. Students will become familiar with all aspects of the filmmaking process, from cinematography, acting styles, lighting, and set design, to musical cues and editing.

ENG 282ab Film Adaptation 3-3-0
Most movies do not tell original stories, but instead borrow them from a wide variety of other media, given them new inflections if not entirely new meanings in the process of adapting them. This course examines a range of movies (and possibly also TV adaptations) and the different kinds of texts they adapt (e.g. stage play, graphic novel, short story, news story) as a way of exploring film as a narrative medium, an institutional practice, and an enduring cultural form in a transmedia world.

ENG 283 The Documentary Film 3-3-0
This course will trace the historical evolution and impact of English language documentary film and video. From John Grierson's original definition of "the creative treatment of actuality," documentary has evolved from propaganda to direct cinema/cinéma verité to docudrama. Two important questions will be addressed: Do documentary film and video's reductive forms of interpreting events truly illuminate our media saturated world? How can studying documentary better help us understand a society dominated by media giants?

ENG 284 Film Noir 3-3-0
Traditionally, film noir is considered more a feeling than a genre, featuring moods of cynicism, darkness, and despair. This course will examine noir's downbeat atmosphere, graphic violence, and complex antiheroes, tracing the genre's development from its origins in World War II's pessimism to its contemporary reflections of social corruption and hypocrisy. Classic and neo-noir films will be viewed and analyzed.

ENG 285ab Journalism 3-3-0
This course teaches the basic requirements of reporting and news writing: interviewing, clear writing, critical thinking, accuracy, story organization, news judgment, and ethical considerations. Students will practice writing news and study some examples of good journalism.

ENG 286ab On-Line Journalism 3-3-0
A hands-on, real-life approach to accurate reporting of local news stories through an on-line newspaper created and maintained by course participants with active supervision/involvement by the instructor/managing editor. The on-line paper will be a modified collaborative news website: students will generate the news, but all copy must be funneled through the managing editor to maintain accuracy and quality of content.

ENG 287 Image and Communication 3-3-0
This course will offer an overview of the history of photography, its evolution into art, the invention of moving pictures and the development of propaganda and advertising. Themes will include a study of how images serve as cultural signs, how gender orients 'the gaze' in cinema and how images are fundamental to a shared world of entertainment, news and consumerism.

ENG 288 Crime Pays: The Gangster Film Genre 3-3-0
This course examines the development of the gangster film from the classical cycle of the early 1930s to the present day Sopranos. Films to be studied may include Little Caesar, The Public Enemy, Scarface (Hawks), High Sierra, Bonnie and Clyde, Godfather II, The French Connection, Goodfellas, and Shanghai Triad.

ENG 289 Film History 3-3-0
This course offers a survey of the technological innovations and aesthetic movements that shaped film production and direction from the 1890s to the outbreak of World War II. Topics to be studied include early experiments in photography, the beginnings of narrative cinema, German Expressionism, French Poetic Realism, forms of comedy, Soviet Silent Cinema and the theory of montage, the Hollywood studio and star systems, and the introduction of sound and colour to motion pictures. A wide range of films are studied to acquaint students with the contours of film history to 1939.
Professor Woodward

ENG 290 The New Journalism 3-3-0
This class examines a major movement in nonfiction literature that had its genesis in the United States during the 1960s: the "New Journalism," which brought narrative elements and the writer's subjectivity to traditional news reportage. Students will analyze pioneering works of the genre, including Truman Capote's nonfiction novel *In Cold Blood*, Tom Wolfe's *The Electric Kool-Aid Acid Test* and Hunter S. Tompson's *Hell's Angels*, and will continue by exploring the so-called "Gonzo" journalism of the 1972 U.S. presidential election (with examples from the films *Where the Buffalo Roam* and *Fear and Loathing in Las Vegas*), Dominick Dunne's reporting on the O.J. Simpson criminal trial, and more recent internet manifestations of the genre. Assignments will include textual analysis and writing subjective news stories.

ENG 291 Film Theory 3-3-0
This course introduces students to some of the more influential theoretical perspectives that have shaped the viewer's understanding of film over the past century. The course will begin with the realist-formalist debates of classical theory and proceed to examine the impact of literary criticism, semiotics, feminism, psychoanalysis, and Marxism on contemporary film theory. Films from different genres and national cinemas are used to illustrate the various approaches to interpreting and evaluating cinema.
Professor Woodward

ENG 293 Four Filmmakers 3-3-3
The diversity of cinema since its invention more than 100 years ago will be explored through the examination of a selection of the films of four filmmakers representing different periods, nations, and/or genres of cinema. The filmmakers chosen for study will vary from year to year.

ENG 294 Film Comedy 3-3-0
Filmmakers discovered film's potential for comedy almost from the moment of the invention of the movies, and quickly developed a wide range of techniques and genres to amaze and amuse audiences. This course surveys the full history of this major branch of film production, considering its key figures and wide variety of genres, from the slapstick antics of Chaplin and Keaton through the screwball comedies of Howard Hawks, Frank Capra, and Billy Wilder, to the scathing satires of Monty Python and others.
Professor Woodward

ENG 295b Jane Austen and Film 3-3-0
This course will examine Jane Austen both as a British novelist and also as an iconic figure taken up by the film industry. The class will study four of her novels, their publication histories, and recent phenomenal success as films. Where possible, a selection of the various film adaptations of each novel will be studied to allow the student to gain a better appreciation of Austen as a writer and consider how the various novels and film adaptations reflect the ideologies of their own period.
Professor Grogan

ENG 296 Sports Writing 3-3-0
This course examines themes and styles of the sports writing genre in journalism, fiction, and documentary narratives. One focus will be on the basics: interviewing athletes, writing tight, running game stories on deadline in CP style, and producing lively features and in-depth profiles. Students will also read works from Gary Smith, Al Stump, George Plimpton, A.J. Liebling, Jim Boulton, Ken Dryden, Maya Angelou, Hunter S. Thompson, among others and examine film segments based on athletes and events that are representative of sports writing themes, including: Cobb, Eight Men Out, Slap Shot, Hoosiers, Breaking Away, Rudy, Raging Bull, Rocky, and The Greatest. Students will produce sports-related stories in CP style, as well as analyses of sports writing, reportage, and films.

ENG 297ab From Aliens to Zombies: Everything You Ever Wanted to Know about Horror but Were Afraid to Ask 3-3-0

This course is an introduction to the Horror genre in various historical and popular modes. Our survey will focus primarily on film and television, but will touch also upon other cultural sites of horror to illuminate the functioning of genre and examine the themes, aesthetics, and cultural implications of horror as represented through such popular narrative figures as psycho killers, ghosts, vampires, aliens, and zombies.

ENG 298 Studies in Directors/Actors: Alfred Hitchcock 3-3-0

Alfred Hitchcock is often titled the "master of suspense" because of his brilliant manipulation of audiences through the thriller movies (like Vertigo and Psycho) he made over a fifty-year career. By the 1960s, he was also being recognized as an auteur, a commercial filmmaker exploring a particular range of subjects, including the power of cinema itself, and expressing something like an artistic vision. That vision, his technical innovations, and his self-reflexive commentaries on the cinema have been the subject of much critical attention. This course examines a range of the movies he made over the full span of his career, split between Britain and the United States, and considers the rich critical legacy that surrounds his work.

ENG 310ab Anglo-Saxon Studies I: The Heroic Age 3-3-0

An interdisciplinary study of the history, culture, language and literature of Anglo-Saxon England. The course will focus on the reading and interpretation of primary sources in Old English that represent the heroic character of the Germanic tribal society that became a unified English nation. Sources will include a selection of historical and literary texts from the eighth to the eleventh century.

ENG 311ab Anglo-Saxon Studies II: Conversion and Transformation 3-3-0

An interdisciplinary study of the history, culture, language and literature of Anglo-Saxon England. The course will focus on the reading and interpretation of primary sources in Old English that describe the coming of Christianity to Anglo-Saxon England and the subsequent transformation of an oral, pagan culture to a literate Christian society. Sources will include a selection of historical and literary works from the eighth to the eleventh century.

ENG 314ab Chaucer: The Canterbury Tales 3-3-0

Travel the pilgrimage road with the master storyteller of medieval England, Geoffrey Chaucer. Meet some of the most famous characters of English literature and read tales that range from high romance and tragedy to low comedy and burlesque. The focus of the course will be on reading *The Canterbury Tales* in Middle English within their particular literary, social, and historical contexts.
Professor Riddell

ENG 315ab Romance and Dream Vision in Medieval England: The Sacred and the Profane 3-3-0

Romance and dream vision represent two of the most significant genres of medieval literature. Both are well represented by major texts in Middle English whose subjects range from sophisticated philosophical and religious themes to social comedy and pure escapism - often all within the same work. The focus of the course will be on reading primary texts in Middle English within their particular literary, social, and historical contexts.
Professor Riddell

ENG 316ab Medieval Comedy and Satire: The Festive Voice 3-3-0

According to medieval writers, comedy could be any story that ends happily, a story about ordinary or common people, or simply any text suitable for entertainment at a party. Not surprisingly, a wide range of medieval literature can be included under these terms: parody, burlesque, beast fable, fabliau, political and social satire, and sheer nonsense. What medieval comedy does present is a world upside down where the silent and marginalised can speak, and where political and social boundaries are constantly crossed. This course offers a banquet of some of the great English comic writing of the Middle Ages to be enjoyed in its original language, and within its historical and cultural context.

ENG 320ab Sixteenth-Century Poetry and Prose: Exploration and Discovery 3-3-0

After nearly a century of civil war, England under the Tudors experienced a period of relative peace and stability and an opportunity for cultural catching up. The writers of the time confronted a broad range of ideas and phenomena associated with the European renaissance and the intensified exploration by Europeans of the world beyond their continent. They needed to think about their relationships to classical civilization, to the peoples and places described by travelers and explorers, and to the other within their midst as mediated by the powerful influence of Petrarch on the ideas and practices associated with the erotic. The course will examine some of the ways in which writers of the sixteenth century both responded to these relationships and shaped them.
Professor Riddell

ENG 321ab Seventeenth-Century Poetry and Prose : Civil War and Revolution 3-3-0

The seventeenth century was a period of intense political, social, and religious conflict that finally resulted in the outbreak of civil war. The course will examine some of the ways in which the writers of the period divided themselves according to the large lines of the conflict between parliament and the crown, their contributions to the parties to which they adhered, and their reflections on the divisions that tore their society apart.
Professor Riddell

ENG 325ab Milton: From Pastoral to Epic and Tragedy 3-3-0

The course will follow the classically based trajectory of John Milton's career from his apprenticeship in the low genre of pastoral in Lycidas and Comus to the exalted genres of epic in *Paradise Lost* and *Paradise Regained* and tragedy in *Samson Agonistes*.

ENG 332ab 18th-Century Literary Journeys 3-3-0

In this course we shall examine a diverse range of 18th-century texts that have one thing in common: each uses travel as a plot-triggering device. We will begin the course with a reflection on what travel is, what forms it takes, and why we do it. We shall then consider why travel is such a pervasive narrative form in post-Restoration Britain. Among issues to be considered are contemporary debates on human nature and civilization, as well as relationships between scientific, historical, commercial, and colonial discourses in an age of vigorous exploration.
Professor Grogan

ENG 342ab Revolution and Romanticism 3-3-0

In this course we will examine the prose writings of the British Romantics from 1789-1832. Readings will explore a variety of topics generated by the French Revolution and the ensuing period of intense political anxiety and intellectual activity. Works by Paine, Burke, Wollstonecraft and Godwin will be examined.
Professor Grogan

ENG 347ab Early Romantic Poetry: Revolutionary Experiments 3-3-0

Poetry of the early Romantic Period (1780-1800) by poets such as Blake, Smith, Robinson, Wordsworth, Coleridge, Williams and Burns. Particular attention will be paid to the social and political role of the poet, poetic form, imagination, inspiration, "masculine" and "feminine" romanticism.
Professor Grogan

ENG 348ab Later Romantic Poetry: The Egotistical Sublime 3-3-0

Poetry of the later Romantic period (1800-1832) by poets such as Byron, Baillie, Keats, Shelley, Hemans and Clare. Particular attention will be paid to the social and political role of the poet, poetic form, imagination and inspiration.
Professor Grogan

ENG 350ab Early Victorian Poetry and Prose: Faith in an Age of Doubt 3-3-0

This course surveys the way early Victorian poets and prose writers responded to their age as a crisis of faith. The poetry of Tennyson and Browning will be studied in relation to selections from the prose of Macaulay, Mill, Carlyle, Newman, and Ruskin.
Professor Brophy

ENG 351ab Late Victorian Poetry and Prose: Against the Grain 3-3-0

This course examines the way late Victorian poets and prose writers overturned many of the cherished assumptions of High Victorianism. The poetry of Arnold, Fitzgerald, the Rossettis, Meredith, and Hardy will be studied in relation to prose writings of Pater, Huxley, Morris, and Wilde
Professor Brophy

ENG 352 Canadian Literature and Theories of Globalization 3-3-0

This course will consider twentieth-century Canadian literature in the context of recent theories and aspects of globalization. We will read work by some of the important scholars who have contributed to these debates, including Anthony Giddens, David Harvey and Arjun Appadurai. Their theories will provide the framework of discussion, which will focus on immigrants and immigration, diaspora formation, experiences of alienation and racism, multiculturalism, evolving conceptualizations of Canadian citizenship, and other related themes.
Professor Morra

ENG 353 Boy Meets Girl: Masculinity Scholarship, Feminist Theories, and American Literature 3-3-0
The first National Women's Rights Convention, in Worcester, Massachusetts, was held in 1850: it signaled the emergent figure in popular culture referred to as the "New Woman." But the evolution of the "New Woman" meant complications for the role of and confusion for men. Using masculinity scholarship and feminist theories, we will explore how the male and female figure appeared in (previously) asymmetrical or imbalanced relationships, and constructions of family, race, and masculinity and femininity.
Professor Morra

ENG 356ab Early Nineteenth-Century American Literature 3-3-0
This course examines the work of American writers from 1820 to 1860, including Irving, Hawthorne, Poe, Melville, Douglass, Emerson, Thoreau, and Davis. Topics to be investigated include madness, Puritanism, slavery, the situation of women, society, the nature of the universe, the natural world, and expediency versus absolutism.
Professor Morra

ENG 357ab Late Nineteenth-Century American Literature 3-3-0
This course examines the work of American writers from 1860 to 1900, including Crane, Twain, James, Chopin, Whitman, Dickinson, and others. Topics to be investigated include the Civil War, Naturalism, race, Native peoples, the American identity, the situation of women, and insanity.
Professor Morra

ENG 358 Approaches to Indigenous Literary Culture in Canada 3-3-0
This course will examine theoretical approaches to Indigenous literature in Canada. It will begin by looking at literary developments from oral to contemporary written literary forms, and how the latter developed in response to colonial contact. Authors may include Thomas King, Lenore Keeshig Tobias, Eden Robinson, Armand Ruffo, Warren Cariou, and Tomson Highway.
Professor Morra

ENG 359 Approaches to Canadian Culture (Canadian Studies) 3-3-0
This course will examine a range of aesthetic representations (Canadian "wilderness," historical events, Indigenous cultural imagery, and so forth) that are conceived of as indigenous to Canada. These representations, as they have evolved from the late nineteenth to the early twentieth century, will include the cultural production of Canadian writers, painter, film directors, and musicians in order to demonstrate the (often conflicting) social and political ideological structures from which these artists operated.
Professor Morra

ENG 360ab Modern British Poetry: Making It New 3-3-0
This course examines how Hardy, Yeats, Owen, Sassoon, and Eliot tried to modernize poetry in the early years of the twentieth century. Their poetry will be studied in relation to such topics as the First World War, Imagism, Symbolism, Georgian poetry, literary tradition, pessimism, and the decline of religion.
Professor Brophy

ENG 361ab British Poetry After 1930: Explorations in Identity 3-3-0
This course surveys the post-modern development of British poetry. Auden, Lewis, Spender, Macneice, Thomas, Larkin, and Hughes will be studied in relation to such topics as the Depression, Communism, Futurism, neo-Romanticism, the Second World War, post-colonialism, and violence.
Professor Brophy

ENG 375 Colonial Narratives 3-3-0
In this course, we will examine the narration of colonial experiences in various world and historical contexts. Our reading will range from the nineteenth century imperial fictions of Rudyard Kipling and Henry Rider Haggard to a selection of postcolonial texts dealing with the cultural impact and legacy of British imperialism in the Caribbean, India, Kenya, Nigeria, and Ireland. Our discussions will be informed by readings in postcolonial theory.
Professor Malley

ENG 381 The Evolution of the Fairy Tale in Literature and Film 3-3-0
This course will investigate how one kind of text, the fairy tale, a genre supposedly appropriated from the oral culture of peasants, has been modified and reworked to suit a wide range of other cultural contexts. By investigating both the production and reception of fairy tales - within the literary culture of the court of Louis XIV and of 19th century England, in the folklore movements of 19th century Germany and Britain, in children's culture from the late 19th century to the present, throughout American movie culture in the 20th century, and within late-20th century feminist circles - we will see how this genre so focused on the image of metamorphosis has itself been transformed and used in radically liberating or deeply repressive ways.
Professor Woodward

ENG 382 Screenwriting 3-3-0
This course introduces students to the art and techniques of screenwriting for a variety of contexts and genres, such as feature films and television drama. Through critical analysis of existing screenplays and the shows and films that derive from them, students will gain an understanding of the narrative and stylistic conventions of screenwriting and will apply their understanding in the development of their own creative projects.
Professor Woodward

ENG 383 Digital Filmmaking 3-3-0
Combining their own technological resources (cell phones, laptops) with the university's, students will develop skills in the fundamentals of digital filmmaking: directing for film, camerawork, sound recording, production design, lighting, picture editing, and post-production sound. They will work in groups and individually to tight schedules, in a variety of genres, including documentary, narrative, and experimental film.
Prerequisites: ENG 382, DRA 281 or permission of instructor

ENG 385 News Editing and Ethics 3-3-0
Fast, Fair and Factual. Learning the nuances of news editing is an art that requires lots of practice, but will make you a better writer in the process. Editors act as gatekeepers to ensure credibility in the news and to keep the news outlet from getting into legal trouble. Editing techniques for print, broadcast and online newswriting will be a major part of class, combined with discussions of ethical standards in journalism. Students will also study current and past legal cases that affect journalism and learn about laws governing libel, privacy, copyright, and obscenity.
Prerequisites: ENG 285 or ENG 286

ENG 390 Restoration Literature: Sex, Politics and Intrigue 3-3-0
An investigation of a selection of literature produced during the Restoration period. A period marked by the return of the English monarchy to power in 1660 and the ensuing debate in all literary genres about political turmoil, kingship, power, and sexuality.

ENG 450 Experiential Learning: Journalism 3-0-10
A practical course in composing news copy and assisting in the production of a commercial newspaper. Specific duties will be negotiated between the English Department and the newspaper.

ENG 454 Experiential Learning: Broadcast Journalism 3-0-10
A practical course in composing news copy and producing radio news programming. Specific duties will be negotiated between the English Department and the radio station.

ENG 458 Experiential Learning: Literary Journal Editing 3-0-10
A practical course in editing *The Mitre*. Specific duties will be negotiated between the English Department and the Student Representative Council.

ENG 460ab Senior Seminar 3-3-0
Advanced studies on a special topic.

ENG 461 Senior Seminar: Poetry 3-3-0
An advanced writing course taught by a professional writer.
Prerequisites: One of DRA 281, DRA 282, ENG 200, ENG 201, ENG 203, ENG 204, ENG 285, ENG 286, ENG 382
Note: Enrollment may be restricted to senior students enrolled in the English Minor in Creative Writing and Journalism. Normally only one Senior Seminar is offered each year.

ENG 462 Senior Seminar: Fiction 3-3-0
An advanced writing course taught by a professional writer.
Note: Enrollment may be restricted to senior students enrolled in the English Minor in Creative Writing and Journalism. Normally only one Senior Seminar is offered each year.

ENG 463 Senior Seminar: Screenwriting 3-3-0
An advanced writing course taught by a professional writer.
Note: Enrollment may be restricted to senior students enrolled in the English Minor in Creative Writing and Journalism. Normally only one Senior Seminar is offered each year.

ENG 464 Senior Seminar: Journalism 3-3-0
An advanced writing course taught by a professional writer.
Note: Enrollment may be restricted to senior students enrolled in the English Minor in Creative Writing and Journalism. Normally only one Senior Seminar is offered each year.

ENG 470 Honours Essay 6-1-0
An individual project on an area or author selected by the student in consultation with the department.

Études françaises et québécoises

The *Département d'études françaises et québécoises* puts the emphasis on the acquisition, the quality and the improvement of the French language at all levels, and intends to serve beginner, intermediate and advanced students as well as native speakers. The program is composed of five levels, each of which contains a minimum of two grammar and writing courses and another one focusing on oral comprehension and expression. This provides the students with a coherent and logical learning process by the end of which they are be able to understand, read, speak fluently and write correct French.

The Department also offers a number of inter and multidisciplinary courses designed for both native and advanced non-native speakers. These courses help students progressively master the French grammar and language, and allow them to become acquainted with a variety of cultural movements that are significant to the *francophonie*. Through the study of the works of meaningful artists, the students are thus able to better understand and appreciate its history and its evolution.

Le *Département d'études françaises et québécoises* concentre ses efforts sur l'apprentissage, la qualité et l'amélioration de la langue française à tous les niveaux, de l'étudiant débutant à celui dont le français est déjà la langue maternelle et / ou la langue d'usage. Chacun des cinq niveaux proposés comprend un minimum de deux cours axés sur la grammaire et la rédaction, et un sur l'expression et la compréhension orale, l'ensemble assurant aux étudiants une progression linguistique logique et cohérente au terme de laquelle ils peuvent comprendre, parler, lire et écrire le français correctement et avec aisance.

Le Département offre également une série de cours inter et multidisciplinaires, destinés aux étudiants francophones ou allophones avancés, leur permettant de mieux maîtriser la langue et la grammaire française, d'acquérir de solides connaissances des divers mouvements culturels ayant marqué la francophonie, et de comprendre et mieux apprécier les créations artistiques ayant marqué son histoire et son développement.

French Placement Test

Students who have completed Grade 11 French in a Canadian institution should register directly in FRE 140; those who have studied in a francophone institution can only register in the courses with the "FRA" label (below). *All other students must take the Bishop's University French Placement Test before enrolling for the first time in a course given by our department.* Hyperlink is available on the Études françaises et québécoises and the Registrarial Services section on the Bishop's website. Test results are valid until the following July.

Les étudiants ayant suivi des études à temps complet dans des institutions francophones doivent faire leur sélection parmi les cours précédés du sigle "FRA", et n'ont pas à compléter le test de placement.

Regulations regarding the Minor, Major or Honours in French

French as a second language courses ("FRE") taken by students prior to their first semester at Bishop's University cannot count towards a Minor, a Major or an Honours in French (other French courses can). French as a second language courses taken outside of Bishop's University (such as an immersion course) during the students' stay at Bishop's University must have received the departmental approval before they are undertaken. Students might be requested to take an evaluation test upon completion of those courses in order to receive Bishop's University credits.

Minor in French as a Second Language

This program of 24 credits (8 courses) is intended for students with little or no French who wish to acquire a good working knowledge of the French language. To complete this minor, the student must have at least completed FRE 141 at Bishop's.

Major in French as a Second Language

This program of 48 credits (16 courses) is designed for students who wish to become bilingual, teach a second language (in partnership with the School of Education), or pursue a career where a very good knowledge of French is a strong asset. To complete this major, the student must have at least completed FRA 315 and FRA 316 (Pièges et mystères de la langue française I & II) at Bishop's.

Mineure en Études de la langue française

This program of 24 credits (8 courses) is intended for students with a good knowledge of French who wish to improve their grammar and develop a wider knowledge of the francophone culture. Students in this program can focus on the various language skills and / or on culture and literature courses. To complete this minor, the student must choose 8 courses from our "FRA" offering.

Ce programme de 24 crédits (8 cours) s'adresse aux étudiants francophones ou allophones ayant déjà une bonne connaissance du français et qui désirent améliorer leurs connaissances linguistiques et/ou acquérir une perspective d'ensemble de la culture francophone. Pour obtenir cette mention sur son diplôme, l'étudiant doit avoir complété 8 cours précédés du sigle « FRA ».

Majeure en langue française / études françaises et québécoises

Ce programme de 48 crédits (16 cours) s'adresse aux étudiants francophones ou allophones de niveau avancé désirant acquérir les connaissances nécessaires pour bien maîtriser la langue française. Ces étudiants recevront également une solide formation multidisciplinaire basée sur un examen des différentes aires de la francophonie, particulièrement la France et le Québec. Pour obtenir cette mention sur son diplôme, l'étudiant doit avoir complété 16 cours précédés du sigle « FRA ».

This program of 48 credits (16 courses) is designed for francophone or advanced non-francophone students wishing to achieve a good master of the French language. Students will also benefit from a multidisciplinary approach based on various cultural expressions of the *francophonie*, with an emphasis on

French and Québec cultures. To complete this major, the student must have at least completed 16 courses with the "FRA" label.

Double Major: Education and French / Double majeure : éducation et français

Program requirements for students pursuing a double major in Secondary Education and French may be found under "School of Education" in the Academic Calendar. All questions concerning courses and requirements should be referred to that department.

Les exigences concernant le programme de Double majeure en enseignement et en français se trouvent sous la section "School of Education" dans le présent annuaire universitaire. Toutes les questions concernant ce programme doivent être adressées à ce département.

Major in Modern Languages with a French component Majeure en langues modernes avec une composante française

The Major in Modern Languages offered by the Department of Modern Languages requires the completion of 60 credits in two languages (30 credits in each language) and French may be chosen as one of the two languages, starting at the Level 2 (intermediate) or higher.

La majeure en langues modernes offerte par le Département des langues modernes comporte 60 crédits dans deux langues (30 crédits dans chacune) et le français peut être choisi comme l'une de ces deux langues, à partir du niveau 2 (intermédiaire) ou plus.

Honours in French as a Second Language / Honours in Études françaises et québécoises

These programs are designed for students who wish to specialize in French as a Second Language or Études françaises et québécoises. Often, but not necessarily, students in these programs are planning to pursue their studies at the Masters level. Each is made up of 60 credits (20 courses) with the combined designations FRE and FRA, for a Honours in French as a second language, and FRA only, for an Honours in Études françaises et québécoises. Up to 9 credits (3 courses) in appropriate fields, previously approved by the Department, could be counted as cognates. Students must maintain an average of at least 70%, calculated on the best 60 credits in the Honours discipline (including cognates), in order to graduate with an Honours degree in any Division of Humanities.

Ces programmes sont destinés aux étudiants désirant se spécialiser en Études du français langue seconde ou en Études françaises et québécoises. Souvent, mais pas nécessairement, les étudiants optant pour ces programmes planifient poursuivre des études au niveau de la maîtrise. Chacun est composé de 60 crédits (20 cours) ayant les sigles combinés FRA et FRE pour le Honours en Français langue seconde, et FRA seulement pour les Honours en Études françaises et québécoises. Jusqu'à 9 crédits (3 cours) suivis dans des champs d'études connexes peuvent être reconnus par le département. L'étudiant doit avoir conservé une moyenne d'au moins 70 %, calculée sur les 60 meilleurs crédits de leur discipline Honours (y compris les cours connexes), pour obtenir un baccalauréat faisant mention d'un programme Honours dans toutes les disciplines de la Division des arts et des sciences. Les étudiants ayant étudié dans des institutions francophones, ou déclarant le français comme langue maternelle ou langue d'usage, ne peuvent pas s'inscrire à une majeure en Français langue seconde.

Independant studies / Études dirigées

Only students in their last year in the Majeure / Honours en Études françaises et québécoises are entitled, upon proposal of a detailed study plan and with a minimum average of 70% in their area of specialisation (including cognates), at the end of the previous semester, to request an independent studies with the professor of his/her choice.

Seuls les étudiants en dernière année d'une Majeure en Études françaises et québécoises peuvent, sur dépôt d'un plan d'études détaillé et ayant, à la fin du semestre précédent, maintenu une moyenne minimale de 70 % dans leurs cours de spécialisation (incluant les cours connexes), faire une demande d'études dirigées au professeur / à la professeure de leur choix. Year by year progression for a student in a major or a minor (depending on the entry level) / Progression par année pour un étudiant inscrit dans une majeure ou une mineure

Culture courses (literature, cinema, sociocultural history, etc.) are offered on rotation .

Level 1 - Beginners

FRE 100	**French I**
FRE 101	**French II**
or FRE 190	**Intensive French – Level 1 (6 credits)**
FRE 115	**Phonology and Aural Comprehension (optional to advance to Level 2)**

Level 2 – Intermediate

FRE 120	**French III**
FRE 121	**French IV**
or FRE 191	**Intensive French – Level 2 (6 credits)**
FRE 135	**Culture and Society. Conversational French I (optional to advance to Level 3)**

Level 3 – Advanced (*Grade 11 French*) / Niveau 3 – Avancé

FRE 140	**Grammatical Review (French V)**
FRE 141	**Grammatical Review (French VI)**
FRE 155	**Culture and Society. Conversational French II (optional to advance to FRA courses)**
MLA 101	**Issues in Language and Linguistics (mandatory for Majors / Honours; counts as an FRA course)**
FRA 165	**Textes en contexte : initiation à la littérature française**
FRA 166	**Textes en contexte : initiation à la littérature québécoise**
FRA 181	**Histoire socioculturelle du Québec I**
FRA 182	**Histoire socioculturelle du Québec II**
FRA 187	**Introduction au théâtre québécois**

Level 4 – Advanced / Niveau 4 – Avancé

FRA 227	**Le génie de la langue : stylistique comparée du français et de l'anglais (mandatory for Majors / Honours)**
FRA 228	**Practice Makes Perfect : traduction journalistique et publicitaire**
FRA 229	**Practice Makes Perfect : traduction administrative**
FRA 230	**Tout est dans la logique : analyse grammaticale et phrase complexe (mandatory for Majors / Honours)**
FRA 247	**Rédaction et communication**
FRA 206	**Histoire de la langue française**
FRA 252	**De la contreculture à la contestation ouverte : les années 1960 et 1970**

FRA 253 **Contes, légendes et chansons de la francophonie**
FRA 285 **Roman québécois contemporain**
FRA 250 **French Cinema**
FRA 254 **Littérature et cinéma en France**
FRA 255 **Littérature et cinéma au Québec**
FRA 259 **Québec Cinema**
FRA 256 **Les grands classiques du roman français**
FRA 257 **Les grands moments du théâtre français**
FRA 258 **La télévision : miroir de la société québécoise**

Level 5 – Advanced / Niveau 5 – Avancé

FRA 307 **Traduction générale**
FRA 308 **Traduction en contexte réel**
FRA 315 **Pièges et mystères de la langue française I (mandatory for Majors / Honours)**
FRA 316 **Pièges et mystères de la langue française II (mandatory for Majors / Honours)**
FRA 351 **De l'aventure au réalisme: la fiction au 19e siècle**
FRA 353 **Littératures migrantes et de la francophonie**
FRA 355 **Versification : voyage dans la poésie française et québécoise**
FRA 385 **Teaching in the community - Experiential Learning I**

Course Description / Description des cours

Level 1 - Beginners

FRE 100ab French I 3-3-0
Introduction to the basic structures of the French language. Emphasis is put on pronunciation, exchange of personal information, expressions using the present tense and the near future, knowledge and description of surroundings, and the various question forms. Designed for students who have no or almost no previous knowledge of French.
Prerequisite: according to result in placement test
Antirequisite: previous FRA 131, FRE 131, FRE 137

FRE 101ab French II 3-3-0
Continuation of French I. Acquisition of new grammatical structures in order to be able to relate past events, tell stories, describe various types of activities, give directions, etc. Introduction to the direct and indirect object pronouns and future tense.
Prerequisite: FRE 131 or appropriate result in placement test
Antirequisite: previous FRA 132, FRE 132, FRE 137

FRE 115ab Phonology and Aural Comprehension 3-3-0
Designed for real and false beginners, this course aims at improving basic pronunciation (standard French) and to introduce students to real life conversation by a rigorous study of the various categories of sounds, the contrasts and the relationships between phonemes, etc. Oral exercises and aural comprehension activities.
Prerequisite: FRE 100, FRE 101 or FRE 120 in progress or completed
Antirequisite: FRE 121 or higher completed or previous FRE 133 or higher completed

FRE 190ab Intensive French – Level I 6-6-0
This course covers the contents of FRE 100 and FRE 101 in one semester.
Prerequisite: according to result in placement test
Antirequisite: previous FRE 131, FRE 132 or FRE 137; FRE 100 or FRE 101

Level 2 - Intermediate

FRE 120ab French III 3-3-0
Continuation of French II. Intermediate level course where the students learn to express opinions, emotions, wishes, hypotheses, etc., and create a more complex discourse through the use of relative pronouns. Introduction to the conditional, the subjunctive and the *plus-que-parfait* (pluperfect). Group discussions focusing on technology and the environment, among other themes.
Prerequisite: FRE 101 completed or appropriate result in placement test or previous FRE 132
Antirequisite: previous FRA 133, FRE 133 or FRE 138

FRE 121ab French IV 3-3-0
Continuation of French III. Introduction to more complex verb tenses and sentence structures (passive and active voice) where the students will learn to express themselves on a wide variety of subjects. Group discussion focusing on media, arts and entertainement, among other themes.
Prerequisite: FRE 120, previous FRE 133 or appropriate result in placement test
Antirequisite: previous FRA 134, FRE 134, FRE 138

FRE 135ab Culture and Society. Conversational French I 3-3-0
This course is designed to improve the quality of spoken French and enhance the vocabulary through a series of interactive activities (aural comprehension, pronunciation, improvisation, role playing, interviews, etc.). Focuses on current events and related topics using francophone newspapers, magazines, and the electronic media.
Prerequisite: FRE 120, FRE 121 or FRE 191 in progress or completed
Antirequisite: FRE 140 or higher completed or previous FRE 151 or higher completed

FRE 191ab Intensive French – Level II 6-6-0
This course covers the contents of FRE 120 and FRE 121 in one semester.
Prerequisite: according to result in placement test
Antirequisite: previous FRE 133, FRE 134 or FRE 138; FRE 120 or FRE 121

Level 3 – Advanced

Students with Grade 11 French in a non- francophone institution should register for FRE 140 (previous FRE 151). There are no prerequisites for francophones for any of the FRA courses.

FRE 140ab Grammatical Review (French V) 3-3-0
Intensive review of the basic French grammar, with an emphasis on past tenses and pronouns. Based on a practical approach with multiple aural comprehension, composition and conversation activities.
Prerequisite: Grade 11 French in a Canadian institution or result in placement test
Antirequisite: previous FRE 151

FRE 141ab Grammatical Review (French VI) 3-3-0
Continuation of FRE 140ab, with an emphasis on the subjunctive mode, the passive voice and the relative pronouns. Based on a practical approach with multiple aural comprehension, composition and conversation activities.
Prerequisite: FRE 140, or previous FRE 151, or appropriate result in placement test

Antirequisite: previous FRE 152

FRE 155ab Culture and Society. Conversational French II 3-3-0
Through small group exercises and the use of multimedia, this course focuses on improving fluency in the French language and developing aural comprehension. Emphasis is put on everyday life, current events and cultural manifestations in the francophone world (music, cinema, etc.).
Prerequisite: FRE 121 completed or placement test equivalent
Antirequisite: FRE 141(or previous FRE 152) or higher completed or previous FRE 152 or higher completed

MLA 101a Issues in Language and Linguistics 3-3-0
This course will provide students with an overview of issues in the study of languages. It will introduce them to basic concepts in linguistics, familiarize them with the main components of language and common pursuits of linguists, and expose them to some long-standing debates in language study. Course taught in English and offered through the Modern Languages Department.

FRA 165ab Textes en contexte : initiation à la littérature française 3-3-0
Aperçu de la littérature de la France par le biais d'une série d'extraits représentatifs des grands mouvements culturels et littéraires de son histoire. Initiation à diverses approches critiques et méthodes d'analyse, traditionnelles et contemporaines.
Lectures de textes, rédactions, etc. Ce cours est ouvert aux étudiants francophones, sans prérequis.
Prerequisite: FRE 140 (or previous FRE 152) or higher completed, or FRE 141 in progress or appropriate result in placement test

FRA 166ab Textes en contexte : initiation à la littérature québécoise 3-3-0

Aperçu de la littérature du Québec par le biais d'une série d'extraits représentatifs des grands mouvements culturels et littéraires de son histoire. Initiation à diverses approches critiques et méthodes d'analyse, traditionnelles et contemporaines. Lectures de textes, rédactions, etc. Ce cours est ouvert aux étudiants francophones, sans prérequis.

Prerequisite: FRE 140 (or previous FRE 152) or higher completed, or FRE 141 in progress or appropriate result in placement test

FRA 181ab Histoire socioculturelle du Québec I 3-3-0

Examen des différents aspects de la société québécoise, depuis la Nouvelle-France jusqu'à la Seconde Guerre mondiale. Les découvreurs et l'Amérique, les tentatives de colonisation, les relations avec les autochtones, la Conqu ête, la Rébellion des Patriotes, la lutte entre le libéralisme et l'ultramontanisme, les influences américaines, les querelles linguistiques, les deux guerres et les crises de conscription, la crise économique de 1929, etc. Lecture de textes d'époque.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA. No prerequisite for francophones

FRA 182ab Histoire socioculturelle du Québec II 3-3-0

Transformations dans la société québécoise depuis la Seconde Guerre mondiale. Le conservatisme de l'époque de Duplessis, la Révolution tranquille et le rejet des valeurs traditionnelles, la contreculture, la montée des idées de gauche et du nationalisme, le mouvement féministe, les problèmes linguistiques, le concept de société distincte, la mondialisation, etc. Lecture de textes représentatifs.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA. No prerequisite for francophones

FRA 187ab Introduction au théâtre québécois 3-3-0

Observation et analyse de l'évolution culturelle du Québec par la fenêtre de son théâtre. La censure du clergé à ses premières heures. L'émergence du vaudeville français et du burlesque américain comme expressions du populaire, en concurrence à la poussée du cinéma muet. Les mouvements de contreculture et les créations collectives durant la Révolution tranquille. L'intérêt renouvelé pour la comédie dans les années 1980. Le théâtre de l'ailleurs et de la fragmentation, le décloisonnement des genres, etc.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA. No prerequisite for francophones

Level 4 / Niveau 4

Non francophone students must have at least completed FRE 141, or the previous FRE 152 (or its equivalent in the Placement Test), in order to take courses at Levels 4 and 5.

FRA 228 and FRA 229 are generally offered on a 2-year rotation.

Il n'y a aucun prérequis pour les étudiants francophones sauf lorsque spécifiquement indiqué.

FRA 206ab Histoire de la langue française 3-3-0

Étude de la langue française, de l'ancien français au français moderne, incluant les tendances contemporaines de la diversité francophone. Approche chronologique et géolinguistique appuyée sur des textes significatifs, des documents sonores et audiovisuels.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 227a Le génie de la langue : stylistique comparée du français et de l'anglais 3-3-0

Stylistique comparée du français et de l'anglais. Cours d'initiation à la traduction, principalement de l'anglais vers le français, dans lequel les éléments lexicaux, grammaticaux, stylistiques et culturels de ces deux langues seront comparés afin d'approfondir les compétences langagières des étudiants. Études des différentes méthodes de traduction, des niveaux de langue et des expressions idiomatiques à travers des exercices pratiques.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

Antirequisite: FRA 227 or previous FRA 245.

FRA 228b Practice Makes Perfect : traduction journalistique et publicitaire 3-3-0

Traduction de textes en français et en anglais tirés de la presse et du monde de la publicité. Travail pratique en classe avec différents outils de traduction incluant les ressources en ligne. Études d'idées fondatrices de la traductologie.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

Antirequisite: FRA 228 or previous FRA246

FRA 229b Practice Makes Perfect : traduction administrative 3-3-0

Traduction de textes en français et en anglais tirés du domaine administratif et commercial. Travail pratique en classe avec différents outils de traduction incluant les ressources en ligne. Études d'idées fondatrices de la traductologie.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 230a Tout est dans la logique : analyse grammaticale et phrase complexe 3-3-0

Apprentissage de la construction des phrases complexes. Étude des diverses composantes d'une phrase et analyse grammaticale dans le but d'apprendre à mieux maitriser les règles de la syntaxe française. Exercices d'analyse et de rédaction visant à améliorer la qualité de l'expression écrite.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

Antirequisite: FRE 201 ou 202

FRA 247b Rédaction et communication 3-3-0

Étude des théories et pratiques de l'écriture, avec une attention particulière portée aux théories de la communication, aux niveaux de langue, aux figures de style et à la présentation des arguments. Seront employés, créés et analysés des textes littéraires, publicitaires, d'opinion, etc.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 250ab French Cinema 3-3-0

From the Lumière Brothers to George Méliès to Émile Reynaud and the Gaumont and Pathé film companies, from the Avant-Garde of the 1920s to the Nouvelle Vague and to the comedies of the early 21st century, this course explores the French contribution to the evolution of the seventh art, and examines how it came to represent part of its personality and psyche. This course is given in English, but movies are shown in their original language, with subtitles. Honours, majors and minors in French must submit their assignments in French; all other students may submit their work in French or English.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 252ab De la contreculture à la contestation ouverte : les années 1960 et 1970 3-3-0

Étude des grands mouvements culturels et sociaux ayant marqué les années 1960 et 1970; le baby-boom, l'émergence du joual, la contre-culture, les contestations sociales, etc. Examen de sa littérature, de sa musique, de son cinéma et de son évolution politique. Comparaisons et relations entre le Québec, la France et les États-Unis.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

Antirequisite: previous FRA 288

FRA 253ab Contes, légendes et chansons de la francophonie 3-3-0

Évolution du concept de l'oralité dans différentes régions de la francophonie en relation avec l'histoire, les sciences et les différents types de manifestations de la culture populaire. Études des fonctions de Propp, des notions de littérarité et de réceptions, de mythocritique ainsi que des sources philosophiques et thématiques des contes, des légendes et des chansons.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

Antirequisite: previous FRA 381

FRA 254ab Littérature et cinéma en France 3-3-0

Analyse des œuvres significatives du cinéma français de ses débuts jusqu'à aujourd'hui. Étude des genres, des réalisateurs, des acteurs influents et des discours. Observation et discussion de certains thèmes récurrents ou novateurs d'un point de vue sociologique et historique. Lecture de romans ou de nouvelles et analyse de leur adaptation cinématographique.

Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 255a Littérature et cinéma au Québec 3-3-0
Analyse des œuvres significatives du cinéma québécois de ses débuts à aujourd'hui. Étude des genres, des réalisateurs, des acteurs influents et des discours. Observation et discussion de certains thèmes récurrents ou novateurs d'un point de vue sociologique et historique. Lecture de romans ou de nouvelles et analyse de leur adaptation cinématographique. Survol du genre court métrage.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 255ab Québec Cinema 3-3-0
This course is given in English, but movies are shown in their original language, with subtitles. Honours, majors and minors in French must submit their assignments in French; all other students may submit their work in French or English.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 258 La télévision : miroir de la société québécoise 3-3-0
Par l'étude de ses créations télévisuelles, ce cours explore les idées et les mentalités présentes dans la société québécoise du milieu du 20e siècle jusqu'à aujourd'hui. L'importance du clergé et de la famille, la notion du survenant et de l'étranger, l'esprit d'indépendance, l'importance de l'enfance, le regard ironique et quelquefois comique posé sur son univers sont parmi les thèmes abordés dans ce cours.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 285ab Roman québécois contemporain 3-3-0
La maturité du roman québécois, des années 70 à nos jours. L'émergence de la littérature migrante, l'engouement pour la littérature jeunesse, le roman urbain et la littérature amérindienne produite au Québec. Observation des liens avec le cinéma et la télévision.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA
Antirequisite: previous FRA 282

FRA 256ab Les grands classiques du roman français 3-3-0
Survol original de la littérature française à travers les époques et les grands mouvements littéraires (le romantisme, le réalisme, le surréalisme et le modernisme) par le biais de quelques-unes de ses plus belles œuvres romanesques. Mise en lumière de l'impact de ces œuvres sur la société et les mœurs de leur époque. Seront à l'étude des auteurs tels Châteaubriand, Hugo, Colette, Stendhal, Balzac, Sand, Proust, Vian, etc.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 257ab Les grands moments du théâtre français 3-3-0
Puisées dans l'imposant répertoire français, les pièces à l'étude serviront d'introduction à l'histoire et à l'analyse de la dramaturgie, en commençant par ceux qui ont contribué à lui donner ses lettres de noblesse: Molière, Corneille et Racine. De ces grands noms de l'époque classique jusqu'au nouveau théâtre (Ionesco, Beckett), en passant bien sûr par le drame romantique (Hugo, de Musset), seront ainsi revisités les moments marquants du théâtre français.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA
Antirequisite: previous FRA 261

Level 5 / Niveau 5

FRA 307a Traduction générale 3-3-0
Cours de traduction, principalement de l'anglais vers le français, traitant de certaines difficultés d'ordre lexical, syntaxique et rédactionnel spécifiques au français et à l'anglais. Ce cours fera état de plusieurs problèmes de traduction tirés de textes diversifiés et encouragera les étudiants à développer le travail d'équipe. Retour sur les méthodes de traduction et lecture de textes pertinents sur la théorie de la traduction.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA

FRA 308b Traduction en contexte réel 3-3-0
Traduction, principalement de l'anglais vers le français, de textes plus complexes en français et en anglais. Travail d'équipe pour lequel les outils de traduction en ligne seront employés. Réflexions métalangagières sur les différentes stratégies utilisées dans la production des textes d'arrivée.
Prerequisite: FRE 141 or previous FRE 152, or any translation course

FRA 315a Pièges et mystères de la langue française I 3-3-0
Cours de grammaire avancée qui s'attarde sur les difficultés particulières de la syntaxe de la langue française, ses exceptions, ses anomalies, etc. Ce cours vise également à corriger les erreurs les plus fréquentes présentes tant chez les Francophones que les apprenants de langue seconde.
Prerequisite: FRA230 for non- francophones
Antirequisite: previous FRA 207; FRA 244; obligatoire pour les étudiants en enseignement.

FRA 316b Pièges et mystères de la langue française II 3-3-0
Suite du cours FRA 315a avec, en complément, une révision des notions de la Nouvelle grammaire et une introduction à la nouvelle orthographe.
Prerequisite: FRA 230 for non- francophones
Antirequisite: previous FRA 207; FRA 244; obligatoire pour les étudiants en enseignement.

FRA 351ab De l'aventure au réalisme: la fiction au 19e siècle 3-3-0
Lecture et observation des œuvres romanesques les plus marquantes du 19e siècle, tant en France qu'au Québec, en lien avec les grands courants culturels de l'Histoire. Un intérêt particulier sera porté à ces œuvres qui représentent des aspects particuliers des goûts et des modes de vie de ce siècle. Approche multidisciplinaire incluant la peinture, la musique, le cinéma, etc.
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA
Antirequisite: previous FRA 365

FRA 353ab Littératures migrantes et de la francophonie 3-3-0
La littérature comme outil d'expression des particularités culturelles nationales. Étude de quelques œuvres d'écrivains migrants du Québec à travers les thèmes de l'exil, la perception de l'Autre, l'identité / l'altérité culturelle, la mémoire, etc. Observation de la complexité historique des différences culturelles rencontrées dans une variété d'aires géographiques reliées à la francophonie, à l'exception de l'Europe (les Antilles, les Caraïbes, le Maghreb et l'Afrique noire).
Prerequisite : FRE 141 or previous FRE 152, or any course with the designation FRA
Antirequisite: previous FRA 270; obligatoire pour les étudiants en enseignement

FRA 355ab Versification : voyage dans la poésie française et québécoise 3-3-0
Apprentissage des règles de la versification par l'entremise de lectures commentées et d'analyses de poèmes issus des littératures françaises et québécoises. Survol historique des mouvements poétiques depuis la Renaissance française jusqu'à aujourd'hui (La Pléiade, Mallarmé, les poètes maudits, etc.) ainsi que des grands moments de la poésie québécoise (le phénomène Nelligan, les poètes de la Solitude et de l'Hexagone, la poésie identitaire, etc.)
Prerequisite: FRE 141 or previous FRE 152, or any course with the designation FRA
Antirequisite: previous FRA 361

FRA385 Teaching in the community - Experiential Learning I 3-1-10
Experiential learning course where the student is paired with an immigrant or a refugee living in Sherbrooke or in the immediate area. During a 12-week period, the student will tutor French two hours a week and help that person with cultural and adaptation related matters. Student must keep a journal where elements of the language taught and linguistic problems encountered are noted and reflected upon, as well as a cultural differences and ways to overcome them.
Prerequisite: a 75 % mark in FRA315 or in the French Assessment Test

Cours de littérature française offerts par le Dr. Carle

FRA 261ab Le Théâtre du XVIIe au XIXe siècle 3-3-0
Lecture et commentaire de pièces significatives du théâtre du XVIIe, XVIIIe et XIXe siècles. L'étude des divers genres (comédie, tragédie, drame, vaudeville) et des diverses esthétiques (classique, romantique) permettra de se familiariser avec les grandes tendances traditionnelles du théâtre.
Professeur Carle

FRA 262ab Moralistes et penseurs 3-3-0
Lecture et commentaire de textes du XVIe (Montaigne) et XVIIe siècles (La Rochefoucauld, Pascal, La Bruyère, La Fontaine) ayant la nature humaine pour objet.
Professeur Carle

FRA 263ab De la féminité au féminisme : les femmes de lettres 3-3-0
Survol historique de la production littéraire féminine, de Louise Labbé à Benoîte Groult.
Professeur Carle

FRA 264ab Les époques de la critique 3-3-0
Survol historique des discours critiques et des théories esthétiques entourant certaines œuvres significatives de la littérature française, de la Renaissance à nos jours.
Professeur Carle

FRA 265ab Aspects du romantisme 3-3-0
Étude du mouvement romantique à travers les œuvres les plus représentatives des auteurs les plus connus : Chateaubriand, Hugo, Lamartine, Sand, Sainte-Beuve, Vigny et les membres du Petit Cénacle.
Professeur Carle

FRA 266ab La littérature interrogée, XXe siècle 3-3-0
Lecture et commentaire d'œuvres littéraires – poésie, roman, théâtre, essai – qui annoncent les transformations majeures que connaîtra la littérature durant le XXe siècle.
Professeur Carle

FRA 361ab 100 ans de poésie 3-3-0
Étude de l'évolution de la poésie de la révolution romantique à la révolution surréaliste. La lecture et les commentaires de cette production qui s'échelonne sur un siècle conduiront à mieux apprécier l'originalité réelle de chaque période poétique.
Professeur Carle

FRA 362ab Le nouveau roman 3-3-0
Étude à partir de textes significatifs des caractéristiques du nouveau roman. Textes théoriques : A. Robbe-Grillet, Pour un nouveau roman; N. Sarraute, l'Ère du soupçon. Textes de fiction : A. Robbe-Grillet : La Jalousie, Le Voyeur; M. Butor : L'Emploi du temps, La Modification.
Professeur Carle

FRA 363ab Écriture et Pouvoir politique 3-3-0
Étude à partir de certains textes significatifs du principe de la contestation du Pouvoir ou de son apologie. Auteurs étudiés : La Fontaine, Molière, Restif, Sade et un choix d'auteurs de la période romantique (Hugo, Lamartine, Vigny, Gautier, Nerval).
Professeur Carle

FRA 364ab Les philosophes romanciers 3-3-0
Au XVIIIe siècle, Rousseau, Diderot ou Voltaire étaient non seulement des philosophes mais également des romanciers ou des conteurs. Étude des textes de fiction (romans et contes) qui servirent à la diffusion des idées philosophiques.
Professeur Carle

FRA 365ab La grande époque du roman 3-3-0
Étude de l'âge d'or du roman à travers les grands romanciers et leurs œuvres : Balzac, Flaubert, Hugo, Stendhal.
Professeur Carle

Fine Arts

The degree in Fine Arts is offered in two distinct profiles. Under the oversight of the Art History and Theory faculty are programs including the **Honours in Art History** and the **Major in Fine Art Concentration Art History**. Under the oversight of the department of Fine Arts *(see p. 102)* are programs including the **Major in Fine Arts Studio Concentration**, the **Honours in Studio**, the **Minor in Fine Arts**, the **double major in Fine Arts and Education**, and the **Studio Certificate**.

Art History

We live in a world defined by images. Art History helps us to understand our visual world and to probe the complexities of images, objects, and artefacts found in art and culture. Through the methods and concepts of art history, students learn the 'visual' language of images as they acquire knowledge and understanding of all forms of visual arts ranging from earliest cave paintings to latest new media installations, from monumental to miniature.

Using diverse approaches and theories, art is critically analysed in the larger social, cultural, economic, institutional, and ideological context of its production, display, and reception. As students engage with works of art and key texts in art history, theory, and criticism, they develop visual as well as verbal and written literacy. Art History fosters creative and critical thinking, inquiry, analysis, and effective communication skills.

In its cross-disciplinary reach, Art History is a unique and wide-ranging discipline that encompasses aspects of history, philosophy, religion, psychology, sociology, gender studies, and cultural studies. Cognate courses with the department of Classical Studies and cross-listed courses with the departments Sociology and History are offered to broaden the students' conceptual horizons.

While our program is primarily designed to meet the needs of Fine Arts students in Art History and Studio, we welcome students from all disciplines to the many courses that do not have prerequisites. Some of these courses are particularly appealing to students in Cultural Studies and New Media, Popular Culture, Religion, and Public History.

Art History students have gone on to graduate programs in art history, museum studies, architecture, art conservation and restoration, and arts administration. Some now work in art galleries and auction houses, others as art appraisers, freelance art critics/writers, independent curators, and university teachers.

A major resource for Bishop's students, as well as for the larger community, is the Foreman Art Gallery, located adjacent to the Centennial Theatre. The Gallery mounts exhibitions of art historical interest and shows representative of new directions in contemporary art. The Foreman Art Gallery also provides paid internships for students throughout the academic year and in the summer as well.

PROGRAMS AND REQUIREMENTS

The Art History Program offers Major and Honours Programs and a Concentration under the Liberal Arts

ART HISTORY CREDITS (FIH): Students can choose to focus on period-based, thematic or theory-based courses in art history.

STUDIO CREDITS (FIS): According to their personal interest, students can opt for a broad experience in studio by taking one of each of the foundation-level courses (drawing, painting, printmaking, photography, and sculpture) or a more specialized approach by focusing on one medium from level I through IV.

ELECTIVE CREDITS: Can be completed in FIH, FIN cross-listed and comparative arts, and in cognate courses depending on each of the three programs below.

Honours in Art History and Theory *(60 credits)*

Students enrolled in the Honours Art History and Theory program must successfully complete 60 credits comprising 42 credits (14 courses) in art history or FIN cross-listed and cognate courses, and 18 credits (6 courses) in studio courses (FIS). Students can apply to the Honours Program anytime after the completion of 15 credits in art history courses. The 60 credits required for the Honours degree must include:

- FIH 100 The Art of Viewing: Introduction to Art History
- FIH 102 Survey of Western Art II: Renaissance to Modern
- 12 credits (4 courses) in 200-level courses in art history (FIH)
- 9 credits (3 courses) in 300-level courses in art history (FIH)
- Any 6 credits (2 courses) in art history courses
- 9 credits (3 courses) elective in FIH and FIN cross-listed or cognate courses to be selected in consultation with the Art History and Theory program chair
- 18 credits in studio arts (FIS)

Suggested course of study:

Year one:
FIH 100, FIH 102, and two 200-level FIH or FIN courses / 12 credits

Year two:
five 200-level FIH or FIN cross-listed or cognate courses / 15 credits

Year three:
five FIH or FIN courses with a minimum of three FIH 300-level courses / 15 credits

A student has the option of completing the Honours over 4 years, especially if enrolled also in a major or minor in another discipline.

Major in Fine Arts Concentration in Art History and Theory *(48 credits)*

Students enrolled in the Major in Fine Arts with a Concentration in Art History and Theory must successfully complete 48 credits comprising a least 27 credits (9 courses) in art history courses (FIH), 15 credits (5 courses) in FIS studio courses, and 6 credits to be selected from FIH courses, FIN cross-listed and cognates courses in consultation with the Art History and Theory program chair.

The 48 credits required for the Concentration in Art History must include:

- FIH 100 The Art of Viewing: Introduction to Art History
- FIH 102 Survey of Western Art II: Renaissance to Modern
- 12 credits (4 courses) in 200-level courses in art history (FIH)
- 9 credits (3 courses) in 300-level courses in art history (FIH)
- 6 credits (2 courses) elective in FIH and FIN cross-listed and cognate courses to be selected in consultation with the Art History and Theory program chair
- 15 credits in studio arts (FIS)

Suggested course of study *(9 credits yearly):*

Year one:
FIH 100, FIH 102, and one 200-level FIH course / 9 credits

Year two:
three 200-level art history courses / 9 credits

Year three:
three 300-level art history courses / 9 credits

A student enrolled in a double major in Fine Arts Art (History/Studio) or another discipline can complete the requirements over a 4-year period.

Art History and Theory Concentration in the Liberal Arts *(36 credits)*

Student enrolled in the Liberal Arts Major can opt for a Concentration in Art History consisting of 36 credits (12 courses) in art history and cross-listed or cognate courses, and 24 in Liberal Arts (8 courses). The 36 credits in art history must include:

FIH 100 The Art of Viewing: Introduction to Art History
FIH 102 Survey of Western Art II: Renaissance to Modern

- 12 credits (4 courses) in 200-level courses in art history (FIH)
- 9 credits (3 courses) in 300-level courses in art history (FIH)
- 9 credits (3 courses) elective: any FIH courses, FIN cross-listed courses, and cognates from Classical Studies (CLA 110, 205, 206, 207, 208, 238), Sociology (FIN 292 / SOC 291), History (FIN/HIS 388), and FIN 235 Museology.

For Additional information please visit our webpage at:

http://www.ubishops.ca/academic-programs/humanities/art-history/index.html

ART HISTORY AND THEORY COURSES

NB: FIH 100 and FIH 102 requirements are offered every year.

INTRODUCTORY COURSES *(100-level courses)*

FIH 100 The Art of Viewing: Introduction to Art History 3-3-0
This course is for any student interested in looking at, thinking about, and understanding works of art and visual media in general. We look at various mediums, ranging from painting and sculpture to video, performance, and Net art. We think about world art in relationship to Western thought and culture, the canon of traditional art history that has shaped our perception, and explore alternative histories of art. We reflect on the circulation, transmission, and display of art through private and public patronage, collections, and exhibitions. We consider the social and material conditions of viewing, and how mediums and social determination condition visual understanding. Finally, we seek to understand the possible content or meaning of art through different methods of interpretation. Overall, the course aims to provide students with the visual, verbal, and conceptual skills fundamental to the description, appreciation, analysis, and criticism of the visual media.

FIH 101a Survey of Western Art I: Prehistory to Medieval 3-3-0
Introduction to concepts and methods of art history. Survey of the visual arts from the Paleolithic Era through the Middle Ages.
(Formerly FIN 101)

FIH 102b Survey of Western Art II: Renaissance to Modern 3-3-0
This course surveys Western art Production from the Early Renaissance to the present. Key works of painting, sculpture, graphic arts and architecture are studied in the contexts of their production and use. Students are introduced to methods of perceptual, historical and critical analysis currently used in the discipline.
(Formerly FIN 102)

INTERMEDIATE PERIOD-BASED COURSES

(200-level courses)

FIH 215 Renaissance and Mannerism 3-3-0
This course studies religious and secular European art from the so-called rebirth of Greco-Roman Antiquity in the early 15th century to the High Renaissance and Mannerism of the late 16th century. Art and its issues will be addressed from both contextual and critical approaches in art history. Particular attention will be given to the Italian Renaissance in Florence, Rome and Venice, the Northern Renaissance in the Netherlands, Flanders, France, Germany and England, and the Renaissance in Spain.
Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 216 Baroque and Rococo Art 3-3-0
A study of 17th and 18th century art in Europe within a changing cultural context that resulted not only in the extravagant and spectacular art of the Counter-Reformation and absolute monarchies, but also in a more restrained, classical strain of art under private patronage from a large affluent middle class. The effects of world exploration, the advancement of scientific knowledge, and political turbulence will be considered. Particular attention will be given to Italy, Spain, Flanders, the Dutch Republic, France and England.
Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 217 Neoclassicism and Romanticism 3-3-0
This course explores major developments in painting, sculpture and interior decoration from the mid-18th to the mid-19th centuries. It introduces students to the concepts and institutions of modern European art and traces the functions of art within the tumultuous social and political circumstances of its production and display.
(Formerly FIN 227)
Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 218 Realism to Fin-de-siècle 3-3-0
This course surveys art production in Europe from the mid-19th century, when the avant-garde emerged as a politically-engaged, publicly-oriented force, until the fin-de-siècle, when it retreated to a private, subjective realm. Works by key Realist, Impressionist, Post-Impressionist, Symbolist and Art Nouveau artists and designers are studied within the broad social, cultural and political circumstances of their production and use.
(Formerly FIN 231)
Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 220 Twentieth-Century Art to the Sixties 3-3-0
Western art from Expressionism to Abstract Expressionism. Major European movements (such as Cubism, Futurism, Dada, Surrealism, Constructivism) and American ones (from the Ashcan School to the New York School) will be studied. Topics include the paradigms of figuration and abstraction, innovations such as collage and photomontage, the contribution of literary movements, appropriations from non-Western cultures, and the influences of Freudian and Jungian theories, socialist ideas, the Russian Revolution, totalitarian regimes, and two World Wars on artists.
(Formerly FIN 104)
Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 221 Art Since the 1960s 3-3-0
The international art scene from the 1960s to today. Topics include Pop art, French Nouveau Réalisme, Minimal art, Italian Arte Povera, Conceptual Art and the International Fluxus movement from the sixties; the pluralistic seventies – when performance, video, Body Art, Land art, installation and Feminist art seemed to proclaim the 'death' of painting; the drastic return of painting by the eighties (with Neo Expressionism, Bad Painting, Graffiti art, etc.), and some of the challenges linked to the globalization of art to this day.
(Formerly FIN 105)
Prerequisite: FIH 100 or FIH 102 or consent of instructor

INTERMEDIATE THEMATIC COURSES

(200-level courses)

FIH 225 Canadian Art 3-3-0
Art and architecture in Canada from its indigenous background to the present.
(Students who have credit in FIN 240 or FIH 240 Canadian Art may not take this course for credit)

FIH 230 History and Theories of Photography 3-3-0
An exploration of the changing nature of photographic thinking and practice from early 19th century experiments to present day digital and post-photography. Different visions and modes of representation are addressed, such as photographic 'truth', photography as art, and photography as a means of mass communication (i.e. photojournalism, advertising, fashion and celebrities photographs, propaganda, etc.). In light of its multiple functions in art and culture, the photographic image is studied as part of a larger social, economic, institutional and ideological frame.

FIH 240 Art, Popular and Mass Culture 3-3-0
A historical and theoretical exploration of the relationships between the 'high' and 'low' arts since Antiquity. Walter Benjamin saw traditional fine arts having an aura – a quality of being distant and unapproachable –, while reproducible works (i.e. photography, film, etc.) do not: they have to do with the here and now, which makes them popular. While addressing topics such as the Olympics, the Roman arenas, the printing press' impact on the diffusion of ideas and literature, the effects of photography and mass media, this course examines the continuous reconfiguration in the definitions and boundaries between fine arts, popular and mass culture in light of social history, philosophy, psychology, and visual and cultural studies.

FIH 246 / HIS 382 Public Art and Monuments 3-3-0
An exploration of art made for public spaces and public viewing taking into consideration aspects such as site, natural environment or urban settings, commemoration and politics, the public sphere and the audience.

FIH 250ab Women in Art 3-3-0
This class surveys the history of women in art since the Middle Ages. The achievements of women artists and images of women are studied in relation to the shifting conditions of women's lives.
Prerequisite: FIH 102b, or consent of instructor

FIH 260 Art and Nature: From Landscape to Environmental and Ecological Art 3-3-0
This course analyses how the relationship between art and nature has been constructed through aesthetic and symbolic representations as diverse as that of the mystic Garden of Eden, landscape painting since the Renaissance, the sublime in nature, French and English gardens, and urban parks, such as Central Park. It also examines the direct involvement with nature in Earthworks and Land Art since the late 1960s and, as artists became conscious of environmental issues in the eighties, in Environmental Art, Ecological Art, and art interventions within ecosystems.

FIH 290 Current Topics in Art History 3-3-0
This course explores issues of current importance in the practice and interpretation of art. Possible topics include: Art and Audience; Sensation and Perception in Art; Expressing the Invisible in Art. Specific topic to be posted in advance of registration.

ADVANCED COURSES *(300-level courses)*

FIH 312a Art and Philosophy 3-3-0
This seminar course explores concepts of art and aesthetics that emerge from art, collections and exhibitions alongside those that are rooted in philosophical texts. The art to be examined ranges from the relics and marvels of the Middle Ages to contemporary experiments in artificial life; the texts include such authors as Plato, Aristotle, Augustine, Aquinas, Descartes, Leibniz, Kant, Foucault and Deleuze.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 314 Colonial and Postcolonial Issues in the Visual Arts 3-3-0
This course addresses colonial and postcolonial experiences of art. It examines topics such as the representation of the exotic 'other', the construction of the colonial subject, the ideology of the colonizer, the Eurocentric gaze, racism, the impact on modern art of primitivism, ethnographic museums, and World Fairs, and ambivalent notions of the 'primitive'. In conjunction with multiculturalism, identity politics, and globalization, the course also explores the place of non Western art in the international scene.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 318 Current Art Practices and Production 3-3-0
This course proposes a critical investigation of ongoing movements and tendencies in the visual arts within their socio-economic context and political history. Contemporary arts being concomitant with currently unfolding societies, they will be addressed in a climate of historical immediacy. Hence, this course takes on a theoretical approach to topics pertaining to contemporary conditions of art production and practice.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 320 Special Topic in Canadian Art 3-3-0
This course deals with an aspect, issue or theme in Canadian art ranging from the colonial times to the present. Possible topics include the art of the First Nations, the legacy of the early French and English settlers, national identity and cultural diversity, or recent developments in the visual arts of Canada.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 323 Seminar in Art History, Theory and Criticism of Art I 3-3-0
Advanced course that explores in-depth a topic in art history, theory or criticism of art. Specific topics to be posted in advance of registration.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 324 Seminar in Art History, Theory and Criticism of Art II 3-3-0
Advanced course that explores in-depth a topic in art history, theory or criticism of art. Specific topics to be posted in advance of registration.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 340 Current Writing about Art 3-3-0
In this writing-intense course, students are introduced to a range of research, interpretation and writing methods currently in use in the fields of art history and art criticism. In addition to studying recent art historical and critical texts, students learn the practical skills they need to write and present original scholarly work. Classes are focused on the critical presentations of published texts, workshops on research and writing, and presentations of student projects.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 350ab Independent Study in Art History I 3-0-0
Open to students who have completed 27 credits in Art History. Students must submit a formal proposal to the art history program outlining a project to be undertaken independently in consultation with the instructor. Approval is contingent on acceptance of the proposed project or course of research.
Prerequisite: two FIH 300-level courses.

FIH 351ab Independent Study in Art History II 3-0-0
Open to students who have completed 27 credits in Art History. Students must submit a formal proposal to the art history program outlining a project to be undertaken independently in consultation with the instructor. Approval is contingent on acceptance of the proposed project or course of research.
Prerequisite: FIH 350

CROSS-LISTED COURSES

FIN 235ab Museology 3-3-0
An introduction to theoretical and practical aspects of museology. The history and function of art museums, collection and conservation, museum administration and the organization of exhibitions are treated in the course, which includes projects in exhibition management.
Prerequisite: FIH 100a, FIH 102b, or consent of instructor

FIN 292 / SOC 291 Sociology of Art 3-3-0
An introduction to the Sociological study of the Arts. The course focuses on the social practices and organizational frameworks related to artistic production/ creation, mediation processes, and the reception of art works and artists. Attention will be given to issues related to race, gender, class, and power.
Professor Coulter

FIN 388 / HIS 388 Museums and Communities 3-3-0
This inter-disciplinary lecture/seminar course offers students an introduction to a range of theoretical approaches and contemporary developments in the field of Museology. Through case studies and actual work with community groups students will have the chance to experiment with key processes around critical museum work today (rational, documentation, mediation, scenography).
Prerequisites: FIN 235 or consent of instructor

COGNATE COURSES
in Classical Art and Architecture
credited for Art History Concentration and Honours

CLA 110ab The Art and Archaeology of Ancient Egypt 3-3-0
A survey of the art and architecture of ancient Egypt from the Pyramids to the Valley of the Kings and an introduction to the archaeological discoveries made in Egypt in the twentieth and twenty-first century.

CLA 205a Greek Art and Architecture 3-3-0
Western art and architecture begin in ancient Greece. From miniature vases to monumental statues of ivory and gold, we will explore the creations of potters and painters, sculptors and architects, and study Greek art from the Bronze age to the time of Alexander the Great.
Open to first-year students.

CLA 206ab / REL 203ab Early Christian and Byzantine Art 3-3-0
This course examines the ways in which the Christians adapted elements from Greek, Roman and Near Eastern art and architecture to their religious beliefs and requirements and also studies the development of this new Christian art in the Byzantine Empire. Major topics include: Catacomb art, early Christian and Byzantine architecture, mosaic and painting, manuscript illuminations, textiles and the minor arts.
Open to first-year students.

CLA 207ab Early Roman Art 3-3-0
In this course we will begin with a study of the colorful wall paintings of Etruscan tombs where men and women drink and dance, and panthers and lions guard the dead. Once rulers of Rome, the Etruscans and their art declined as the Roman Republic grew powerful. We will examine how the Romans developed an innovative art and architecture which expressed the values of their society.

CLA 208ab Art and Architecture of Imperial Rome 3-3-0
A survey of Roman art and architecture from the first century C.E. to the fourth century C.E. The course examines the use of art as propaganda and the tension between tradition and innovation in Roman Art.

CLA 238a / REL 238a Greece, Land of the Gods 6-6-0
This six-credit course examines the sacred art and architecture of ancient Greece from Mycenae to Byzantium on site in Greece. Offered in the Spring semester. After preliminary lectures on campus students will spend two weeks traveling to the major sacred sites of mainland Greece. Travel plans must be finalized by the middle of January prior to departure in May. Contact the Classics department for information.

Studio

The mission of the Department of Fine Arts is to produce independent, critical thinkers who are able to discover and synthesize diverse types of knowledge, and understand the interconnections between the fine arts and other academic disciplines. Students completing the programs in Fine Arts develop a well-rounded perspective on the world; develop critical thinking skills and creative problem solving abilities; and communication skills transferable to many environments within and beyond fine arts related fields.

Moreover, our desire is to provide students with a broad based Fine Arts education, one which will allow them the widest possible scope for continued study leading towards visual arts-related careers. By providing students with increasingly more specialized courses, particularly in their third year of study, such as: FIN 301 Art Education: Theory and Practice, FIN 303 Preparation of Professional Portfolio, FIN 218 Digital Imaging for the Artist I, and II, students are introduced to fields of study potentially leading to graduate study and careers in Art Education, Studio, or professions involving digital imaging. The aim of these courses, as well as the attitude that underlies their conception, is to instill in the student a sense of purpose. We want students to see their education at Bishop's as having a real intrinsic and extrinsic worth. We want students to see their Fine Arts training as connected to the world in which they will become creative, critical, and productive citizens.

Fine Arts students are normally streamed through their first two years of full-time study. This streamed sequence creates a familiar and fertile atmosphere wherein students develop a strong understanding of each other's creative work, which in turn, promotes a cross-fertilization of ideas and approaches integral to the Studio environment. As well, this student cohesiveness set within a well-structured curriculum enables professors to pursue curriculum content that may be thematically related. In short, goals and conceptual approaches sought after in a sculpture, drawing or photography class, may be reinvestigated and re-emphasized in a painting or digital imaging class. Similarly, issues arising out of Art History courses may be reinforced within the studio environment. The ultimate task as we see it is the creation of a unified, creative, and integrated learning environment for our students. We offer a number of programs designed to (a greater or lesser extent), bring about this mandate.

It is important to note that the degree in Fine Arts is offered in two distinct profiles. Under the oversight of the Department of Fine Arts are programs including the **Major in Fine Arts Studio Concentration**, the **Honours in Studio**, the **double major in Fine Arts and Education**, the **Minor in Fine Arts** and the **Studio Certificate**. Under the oversight of the Art History and Theory faculty are programs including the **Honours in Art History** and the **Major in Fine Art Concentration in Art History** (please see the Art History program section of this calendar).

The Major in Fine Arts–Studio Concentration:

The Major in Fine Arts–Studio Concentration requires a minimum of 48 departmental or cognate credits (16 courses) from three course groupings (courses listed below under the course descriptions): Studio (27 FIS), Art History (15 FIH), and Comparative Arts (6 FIN).

Students as a group are normally streamed through their first 45 credits as follows:

Year I

Fall	FIS 140	Foundation Studio
	FIS 160	Drawing I
	FIH 100	The Art of Viewing
	2 electives	
Winter	FIS 170	Sculpture I
	FIS 181	Painting I
	FIS 260	Drawing II
	FIH 102	Survey of Western Art: Renaissance to Modern
	1 elective	

Year II

Fall	FIS 271	Sculpture II
	FIS 281	Painting II
	2 FIS electives	
	FIH 220	Twentieth Century to the Sixties

During the second and subsequent years, students are offered a number of elective courses which include third and fourth level courses in Drawing, Painting, Sculpture, first and second level Printmaking and Photography, as well as the comparative course requirements including Digital Imaging I and II, Portfolio, Art Therapy, and Art Education, and the required 300 level FIH art history course (see course descriptions below).

Studio (FIS) Courses

The studio course requirement of a minimum of 27 FIS credits including one at the 300 level. Normally, in the first year of full time study these include 15 credits (5 FIS courses) from: FIS 140 Foundation Studio, FIS 160 Drawing I, FIS 170 Sculpture I, FIS 181 Painting I, and FIS 260 Drawing II. In the second year of full time study, students will be required to choose a minimum of 12 FIS credits, (4 FIS courses) from the following: FIS 182 Photography I, FIS 190 Printmaking: Intaglio, FIS 261 Drawing III, FIS 271 Sculpture II, FIS 281 Painting II, FIS 291 Printmaking: Relief; FIS 296 Photography II, FIS 300 Drawing IV, FIS372 Sculpture III, FIS 373 Sculpture IV, FIS 382 Painting III, and FIS383 Painting IV.

While registration priority will be given to Fine Arts students, students from other programs who may wish to study studio art may gain admittance to these courses. A student who believes he or she may have grounds to request exemption from one of the 100-level studio courses is required to present a portfolio of work to one of the studio faculty before registration in order that a determination may be made. Normally, students must achieve a grade of at least 70% in 100-level studio courses before they may be admitted to 200-level studio courses.

Art History (FIH) Courses

The art history course requirement of 15 specific FIH credits includes FIH 100 The Art of Viewing, FIH 102: Survey of Western Art II: Renaissance to Modern, FIH 220: Twentieth-Century Art to the 1960s, FIH 221: Art since the 1960s, and one 300-level Art History course.

Comparative Art (FIN) Courses

The comparative arts course requirement is a minimum of 6 FIN credits. These courses require students to consider the arts in a broader liberal arts context, as they are by their nature interdisciplinary. These courses are normally taken in the second and subsequent years of full time study. *(It is important to note that these can include the courses listed under comparative arts section of course descriptions that are not offered by the Fine Arts department.)*

Studio Honours Program

Similar to the major, the Studio Honours program includes three course groupings. However, it requires a minimum of 60 departmental or cognate credits (20 courses). This program includes Studio (42 FIS), Art History (15 FIH), and Comparative Arts (3 FIN).

This program is designed to prepare students for further studies at the graduate level in studio related practice. Normally after having completed 30 credits as a major in the Fine Arts studio concentration, students will have the option to apply for the Studio Honours program. Eligibility for admission to this program is determined by the following criteria: an overall average no lower than 70% in courses within the Major program. A comprehensive portfolio including work completed as a Major in the program, and a statement of artistic intent will be required for applicants. Academic eligibility of students aspiring to the Honours Program is established in their second year of full time study.

Studio (FIS) Courses

As students are not eligible to apply to change to the studio honours program until having completed 30 credits, the course requirements are identical to the major during the first year of full time study. Course requirements consist of 42 credits (14 FIS courses) in Studio. Normally, during the first 30 credits as with the major these include 15 credits (5 FIS courses) from: FIS 140 Foundation Studio, FIS 160 Drawing I, FIS 170 Sculpture I, FIS 181 Painting I, and FIS 260 Drawing II. Following the first year as a major, honours students will be required to choose a minimum of 27 FIS credits, (9 FIS courses) from the following: FIS 182 Photography I, FIS 190 Printmaking: Intaglio, FIS 261 Drawing III, FIS 271 Sculpture II, FIS 281 Painting II, FIS 291 Printmaking: Relief; FIS 296 Photography II, FIS 300 Drawing IV, FIS372 Sculpture III, FIS 373 Sculpture IV, FIS 382 Painting III, and FIS383 Painting IV.

Art History (FIH) Courses

As with the major, the Art History courses (FIH) include a minimum of 15 credits in Art History (5 FIH courses) including: FIH 100, The Art of Viewing, FIH 102: Survey of Western Art II: Renaissance to Modern, FIH 220: Twentieth-Century Art to the 1960s, FIH 221: Art since the 1960s, and one 300-level Art History course.

Comparative Arts Courses

Unlike the major, in addition to the 57 credits listed above, students must choose 3 credits from either: FIN 301 Art Education: Theory and Practice, FIN 303 Preparation of a Professional Portfolio, or one additional 300-level Art History (FIH) course.

Double Major: Secondary Education and Fine Arts

Program requirements for students pursuing a double major in Secondary Education and Fine Arts may be found under "School of Education" in the Academic Calendar. All questions concerning courses and requirements should be referred to the Chair of the School of Education.

All majors and honours students in Fine Arts must satisfy the Humanities Divisional requirement outlined at the beginning of the Humanities section of the calendar.

Minor in Fine Arts Program

The Minor in Fine Arts requires a minimum of 24 departmental or cognate credits, with 12 credits in Art History including: FIH 100: The Art of Viewing: Introduction to Art History, FIH 102: Survey of Western Art II: Renaissance to Modern, FIH 220: Twentieth-Century Art to the Sixties, FIH 221: Art since the 1960s and 12 credits in studio.

Certificate in Studio Arts

The Certificate in Studio Arts (30 credits) is a structured program of study in Fine Arts with an emphasis on studio courses offered by the Department of Fine Arts. For part-time community students who do not wish to pursue a degree program, the Certificate in Studio Arts presents a rounded introduction to studio practice. Courses leading to the Certificate in Studio Arts are offered in the regular Fall-Winter semesters, the evening summer session and the Fine Arts Summer School. Credits obtained in the certificate program may be applied eventually towards a major or minor in the degree program in Fine Arts. Students may not be enrolled simultaneously in a degree program and the Certificate in Studio Arts.

Admission requirements: *(See Regulations for Certificate Programs).*

Transfer credits: *A maximum of nine unassigned Fine Arts credits may be transferred from courses taken by a student at another university.*

1) Required courses: *6 credits*

FIH 101ab (formerly FIN 101ab)	
Survey of Western Art I: Prehistory to Medieval	**3-3-0**
FIH 102ab (formerly FIN 102ab)	
Survey of Western Art II: Renaissance to Modern	**3-3-0**

2) The remaining 24 credits must be chosen from the Studio course list.

FIS 160ab (formerly FIN 160ab)	
Drawing I	**3-0-6**
FIS 170ab (formerly FIN 170ab)	
Sculpture I	**3-0-6**
FIS 180ab (formerly FIN 180ab)	
Colour Theory and Practice	**3-0-6**
FIS 181ab (formerly FIN 181ab)	
Painting I	**3-0-6**

And any 12 credits chosen from other 100- and 200-level studio courses *(see Fine Arts Studio section).*

COURSE DESCRIPTIONS

Studio Courses (FIS):

Foundation Level

FIS 140ab Foundation Studio 3-0-6
An introduction to the media of studio art involving practice in drawing, sculpture and painting, combined with discussion of concepts in the analysis of visual experience and art-making.

FIS 160ab Drawing I 3-0-6
This course is based on the premise that skills of visual observation derived from drawing are crucial to further studio practice. Students will explore the notions surrounding the articulation of physical space through drawing and come to an understanding of pictorial syntax by developing their skills of observation of form, proportion, value, and movement. Assigned projects will address fundamental and conceptual problems suggested by historical and recent practice.

FIS 170ab Sculpture I 3-0-6
This course is intended to introduce students to a variety of sculptural languages. These may include the glyptic, the plastic, and the assemblage and their corresponding techniques of subtraction, substitution and addition respectively. Although group discussions will be employed, this aesthetic inquiry will primarily take the form of individual hands-on activity as the basis of group critical/ theoretical study.

FIS 175ab Introduction to Fibre Art 3-0-6
An introduction to the nature and possibilities of fibres and to their use in art. Two and three-dimensional studio projects using techniques such as wrapping, fabric manipulation, dyeing, and papermaking, will take into account the characteristics of the material and the process.

FIS 180ab Colour: Theory and Practice 3-0-6
This course is designed to familiarize students with aesthetic concepts and expressive uses of colour in painting. Emphasis is on the understanding of colour contrasts as well as the optical, sensory, emotional, and psychological effects of colour relationships. The introduction of historical contexts, and contemporary artistic practices will provide students with a greater understanding and critical awareness of the varied approaches to colour. Class will proceed through assignments using a variety of mediums.

FIS 181ab Painting I 3-0-6
This course is an introduction to the visual language and the materials and techniques in painting. Through observational study, and with an emphasis on the language of colour, pictorial syntax, and the articulation of space, students will develop a number of personal images. These projects, in conjunction with weekly studio critiques will increasingly challenge and help develop students' critical and creative thought processes. The study of key painting approaches in historical and contemporary painting will be an integral component of the course. Students are expected to develop a portfolio of the works and preparatory studies completed in class.
Formerly FIN 280
Students who have taken FIS 281ab (formerly FIN 281) may not take FIS 181ab (formerly FIN 181) for credit.

FIS 182ab Photography I 3-0-6
This introductory course will familiarize students with the concepts and fundamental techniques of digital photography with emphasis on individual projects. A survey of photographic genres and contemporary practices present students with various approaches that expand ideas about photographic representation. The basics of photography from shooting to printing will be experimented by the student.
Course requirement: A fully manual digital single lens reflex camera (DSLR)
Formerly FIN 295
Students who have taken FIN 295ab may not take FIS 182ab for credit.

FIS 183 Basic Photography and Darkroom Practice 3-0-6
This is a beginning course in basic black and white photography. The object of the course is for the student to acquire a working knowledge of the fundamentals of black and white photography and darkroom practice, and to demonstrate his/her understanding of them through a comprehensive acquisition of basic photographic techniques in conjunction with contemporary concepts in photography.

FIS 185ab Landscape Drawing and Painting I 3-0-6
Based on direct observation, this course will focus on the basic elements of line, shape, texture, value and colour as they unfold in nature. Students will learn to apply basic notions of composition and perspective while choosing the medium and format most appropriate to translate their impressions into visual language.

FIS 190ab Printmaking: Intaglio 3-0-6
This course introduces students to various techniques and experimental processes used in creating intaglio prints. Drypoint, etching, as well as various contemporary approaches to plate making and printing will be covered. Technical demonstrations, presentations, and individual projects will familiarize students with contemporary practices and concepts in print media. Discussion and critique of work aim at furthering student's aesthetic thinking and skills.

Intermediate Level

FIS 260ab Drawing II 3-0-6
This course will concentrate on the variety of approaches to drawing from observation and the imagination. A variety of exercises in figurative drawing will be employed that are directed towards the development of disciplined observation and technical control of the the graphic media. Consideration will be given to how and why the figure is essential to contemporary practice.
Prerequisite: FIS 160ab, formerly FIN 160ab

FIS 271ab Sculpture II 3-0-6
This course will involve an aesthetic inquiry in a variety of sculptural languages moving from the graphic to the plastic. Based on a theme, students will become aware of the process by which his/her imagery evolves from a low relief to a sculpture in the round. Attention is paid throughout the course to understanding and articulating form in 2 and 3 dimensional space, and to helping students develop personal ways of working alongside, and in response to, the fellow students and current issues in contemporary sculpture.
Prerequisite: FIS 170ab, formerly FIN 170ab

FIS 272ab Moldmaking and Casting 3-0-6
This course offers instruction in the practical aspects of mold making and casting in a variety of materials and techniques. The objective is to provide students with the principles of this traditional technology and infuse these techniques into their practice and creation of sculpture. A foundation in how objects around us are reproduced is essential for the modern sculptor in a culture of mass production. Contemporary issues of art and culture are also discussed.
Prerequisite: FIS 170ab, formerly FIN 170ab

FIS 275 Fiber Art II 3-0-6
This course is a continuation of Introduction to Fiber Art.
Prerequisite: FIS 175ab.

FIS 281ab Painting II 3-0-6
This course will involve a further exploration of concepts and techniques in painting, emphasizing the individuation of students' pictorial language and approach. Class investigations will examine various approaches to representational and abstract painting. Studio work is complemented by in-depth discussion, studio critiques, as well as the personal research of key issues in historical and contemporary painting. Students are increasingly expected to develop a personal portfolio of their works.
Prerequisite: FIS 180ab or FIS 181ab (formerly FIN 180ab and FIN 181ab)

FIS 285 Landscape Drawing and Painting II 3-0-6
This course is a continuation of Landscape Drawing and Painting.
Prerequisite: FIS 185ab.

FIS 291ab Printmaking: Relief 3-0-6
This course offers an introduction to traditional techniques and experimental processes used in the pursuit of relief printmaking. Class involves an overview of techniques and materials including woodcut, use of a press and hand-printing relief processes. Conceptual concerns related to print media in a contemporary context are discussed and explored through technical demonstrations, presentations and individual assignments. Discussion and critique of work aim at furthering student's aesthetic thinking and skills.
Formerly FIN 191
Students who have taken FIN 191ab may not take FIS 291ab for credit

FIS 296ab Photography II 3-0-6
This course develops and expands on digital image making techniques explored in Photo I. Students are encouraged to experiment and to integrate various contemporary issues and concepts in their assignments. Group discussion around body of images and the presentation of various contemporary approaches and practices in photography will encourage critical thinking.
Course requirement: A fully-manual digital single lens reflex camera (DSLR).
Prerequisite: FIS 182, formerly FIN 182

Advanced Level

FIS 261ab Drawing III 3-0-6
This course is a continuation of studies in life drawing. The figure will be considered using a range of approaches with emphasis on observation, anatomy, and spatial structure. Group discussions and presentations complement the studio work.
Prerequisite: FIS 260ab, formerly FIN 260ab

FIS 300 Drawing IV 3-0-6
This course will focus on Drawing in its relation to contemporary practice. Experimental aspects of drawing will be explored in a variety of media. Group discussions and presentations complement the studio work.
Prerequisite: FIS 261ab

FIS 302ab Photography III 3-0-6
This advanced course will provide students with the opportunity to explore hybrid or cross-disciplinary approaches to the photographic medium. Course range is determined by instructor and may include special topics such as installation, site-specific projects, projections, non-traditional uses of photographic images, web, inter-media collaborations, artist books and time-based mediums. Lab work will be digital.
Prerequisite FIS 296, formerly FIN 296

FIS 372ab Sculpture III 3-0-6
This advanced course will engage the student in a more intensive specialized study in sculpture. Assignments are designed to provide further investigation into the history of making and thinking in sculpture and to raise questions pertinent to contemporary practice. The opportunity exists to explore new techniques and materials while honing familiar skills. This inquiry is designed to help students become self-directed. Individual and group discussion, play a significant role in the development of a body of work.
Prerequisite: FIS 271ab, formerly FIN 271ab

FIS 373 Sculpture IV 3-0-6
This course provides the opportunity for a more advanced program of individual study in sculpture based on visual languages and techniques determined by the instructor. Group discussion of student projects, and readings, that address current art practice, are core to this course. Individual and group critiques monitor the progress of each project.
Prerequisite: FIS 372ab

FIS 382ab Painting III 3-0-6
This course challenges the student with several in-depth projects that will encourage the development of individual themes through independent studio practice. Students will be expected, in both verbal and written form, to situate their artistic explorations within historical and contemporary approaches in painting. Studio work will be complemented by critical individual and group discussion as well as through research of pertinent approaches and concepts in historical and contemporary painting. The ongoing development of a personal portfolio of work is also expected of the student.
Prerequisite: FIS 281ab, formerly FIN 281

FIS 383 Painting IV 3-0-6
This course will allow advanced students to explore the distinctions and similarities between painting and other visual art disciplines. As current art practice reflects an enormous range of possibilities of how art disciplines can interrelate, painting often becomes blurred, as hybrid approaches yield works that do not fit neatly into traditional historical categories. This course will examine connections between painting and the other studio disciplines through individual projects, historical analysis, and critique. Students will explore definitions and relationships, and will consider how these forms of expression may overlap and how they may diverge. It is expected that students will gain a better understanding of how painting and other forms of visual expression intersect, and that students consider and arrive at new ways of connecting these distinct disciplines in their own work. The ongoing development of a personal portfolio of work is also expected of the student.
Prerequisite: FIS 382ab

FIS 384 Photography IV 3-0-6
The advanced student is expected to create a body of work exploring an important issue from a personal point of view. The student will also contextualize his/her work within contemporary photographic practices and issues.
Prerequisite: FIS 302ab

FIS 385 Printmaking: Contemporary Practice 3-0-6
This course is designed to encourage printmaking students to develop a consistent personal approach to subject matter and techniques in the print media of their choice. Students are expected to be self-motivated, explore new printmaking techniques and develop their technical abilities through continuous experimentation and research. Participation in critical discussion and critique aims at furthering their intellectual understanding of contemporary print media.
Prerequisite: FIS 190ab Printmaking I and FIS291 Printmaking II

FIS 390ab Independent Study in Studio Art I 3-0-0

FIS 391ab Independent Study in Studio Art II 3-0-0

FIS 392ab Independent Study in Studio Art III 3-0-0

Students who have accumulated 60 credits in the program and who have completed the course work in a given area may submit a formal proposal to the department outlining a project to be undertaken independently in consultation with the instructor. The Independent Study option is available only to Studio Honours students who have been in the Bishop's program for at least a year and who are currently pursuing other courses in the department on a full-time or part-time basis. Departmental approval is contingent on acceptance of the proposed project or course of research by the supervising instructor. Project proposals will be received no later than the add/drop deadline.

STUDIO COGNATES

Fine Arts majors normally will be permitted to take 6 cognate credits that will count towards the Studio component from among: DRA 101, 160, 161, 250, 251, and 262. With permission of the department, studio honours students may be permitted to take additional cognate courses. Fine Arts minors may apply one of the above cognates towards the minor.

Art History Courses (FIH):

FIH 100 The Art of Viewing: Introduction to Art History 3-3-0
This course is for any student interested in looking at, thinking about, and understanding works of art and visual media in general. We look at various mediums, ranging from painting and sculpture to video, performance, and Net art. We think about world art in relationship to Western thought and culture, the canon of traditional art history that has shaped our perception, and explore alternative histories of art. We reflect on the circulation, transmission, and display of art through private and public patronage, collections, and exhibitions. We consider the social and material conditions of viewing, and how mediums and social determination condition visual understanding. Finally, we seek to understand the possible content or meaning of art through different methods of interpretation. Overall, the course aims to provide students with the visual, verbal, and conceptual skills fundamental to the description, appreciation, analysis, and criticism of the visual media.

FIH 102b Survey of Western Art II: Renaissance to Modern 3-3-0
This course surveys Western art Production from the Early Renaissance to the present. Key works of painting, sculpture, graphic arts and architecture are studied in the con- texts of their production and use. Students are introduced to methods of perceptual, historical and critical analysis currently used in the discipline.
(Formerly FIN 102)

FIH 220 Twentieth Century Art to the Sixties 3-3-0
Western art from Expressionism to Abstract Expressionism. Major European movements (such as Cubism, Futurism, Dada, Surrealism, Constructivism) and American ones (from the Ashcan School to the New York School) will be studied. Topics include the paradigms of figuration and abstraction, innovations such as collage and photomontage, the contribution of literary movements, appropriations from non-Western cultures, and the influences of Freudian and Jungian theories, socialist ideas, the Russian Revolution, totalitarian regimes, and two World Wars on artists.
(Formerly FIN 104) Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 221 Twentieth Century Art Since the Sixties 3-3-0
Nouveau Réalisme, Minimal art, Italian Arte Povera, Conceptual Art and the International Fluxus movement from the sixties; the pluralistic seventies – when performance, video, Body Art, Land art, installation and Feminist art seemed to proclaim the 'death' of painting; the drastic return of painting by the eighties (with Neo Expressionism, Bad Painting, Graffiti art, etc.), and some of the challenges linked to the globalization of art to this day.
(Formerly FIN 105) Prerequisite: FIH 100 or FIH 102 or consent of instructor

FIH 312 Art and Philosophy 3-3-0
This seminar course explores concepts of art and aesthetics that emerge from art, collections and exhibitions alongside those that are rooted in philosophical texts. The art to be examined ranges from the relics and marvels of the Middle Ages to contemporary experiments in artificial life; the texts include such authors as Plato, Aristotle, Augustine, Aquinas, Descartes, Leibniz, Kant, Foucault and Deleuze.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 314 Colonial and Post Colonial Issues in Visual Arts 3-3-0
This course addresses colonial and postcolonial experiences of art. It examines topics such as the representation of the exotic 'other', the construction of the colonial subject, the ideology of the colonizer, the Eurocentric gaze, racism, the impact on modern art of primitivism, ethnographic museums, and World Fairs, and ambivalent notions of the 'primitive'. In conjunction with multiculturalism, identity politics, and globalization, the course also explores the place of non Western art in the international scene.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 318 Current Practices and Production 3-3-0
This course proposes a critical investigation of ongoing movements and tendencies in the visual arts within their socio-economic context and political history. Contemporary arts being concomitant with currently unfolding societies, they will be addressed in a climate of historical immediacy. Hence, this course takes on a theoretical approach to topics pertaining to contemporary conditions of art production and practice.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 320 Special Topic in Canadian Art 3-3-0
This course deals with an aspect, issue or theme in Canadian art ranging from the colonial times to the present. Possible topics include the art of the First Nations, the legacy of the early French and English settlers, national identity and cultural diversity, or recent developments in the visual arts of Canada.
Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 323 Seminar in Art History, Theory and Criticism in Art I 3-3-0
Advanced course that explores in-depth a topic in art history, theory or criticism of art. Specific topics to be posted in advance of registration. *Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses*

FIH 324 Seminar in Art History, Theory and Criticism in Art II 3-3-0
Advanced course that explores in-depth a topic in art history, theory or criticism of art. Specific topics to be posted in advance of registration. *Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses*

FIH 340 Current Writing about Art 3-3-0
In this writing-intense course, students are introduced to a range of research, interpretation and writing methods currently in use in the fields of art history and art criticism. In addition to studying recent art historical and critical texts, students learn the practical skills they need to write and present original scholarly work. Classes are focused on the critical presentations of published texts, workshops on research and writing, and presentations of student projects.

FIH 350 Independent Study in Art History I 3-3-0
A formal proposal to the art history program outlining a project to be undertaken independently in consultation with the instructor. Approval is contingent on acceptance of the proposed project or course of research.
Prerequisite: two FIH 300-level courses.

FIH 351 Independent Study in Art History II 3-3-0
Open to students who have completed 27 credits in Art History. Students must submit a formal proposal to the art history program outlining a project to be undertaken independently in consultation with the instructor. Approval is contingent on acceptance of the proposed project or course of research.
Prerequisite: FIH 350

COMPARATIVE ARTS COURSES (FIN):

Majors are required to take 6 credits from the following list.

FIN 218ab Digital Imaging for the Artist I 3-3-0
This course serves as an introduction to current practice on the computer in the graphics arts industry. Students will gain proficiency in the use of various software, particularly Photoshop, Illustrator, and InDesign on a Macintosh platform.

FIN 222ab Art Therapy 3-3-0
This course acquaints students with the field of art therapy, by addressing relevant psychological background, theory and research as well as are therapy history approaches, and research. The course will include pertinent, gently guided practical experiences introducing students to therapeutic possibilities of art making.

FIN 235ab Museology 3-3-0
An introduction to theoretical and practical aspects of museology. The history and function of art museums, collection and conservation, museum administration and the organization of exhibitions are treated in the course, which includes projects in exhibition management.
Prerequisite: FIH 100a, FIH 102b, or consent of instructor

FIN 292 / SOC 291 Sociology of Art 3-3-0
An introduction to the Sociological study of the Arts. The course focuses on the social practices and organizational frameworks related to artistic production/ creation, mediation processes, and the reception of art works and artists. Attention will be given to issues related to race, gender, class, and power.
Professor Coulter

FIN 301ab Art Education: Theory and Practice 3-3-0
This course investigates various historical and critical approaches concerned with the identity of the artist and the artwork as they inform practice. Students will develop relevant methodologies that will apply to the planning and teaching of art in a variety of educational settings, and will explore a variety of paradigms for teaching studio practice.
Prerequisites: FIS 160, FIS 170, FIS 181, and either one of FIS 261, FIS 372, or FIS 382

FIN 348ab Digital Imaging for the Artist II 3-3-0
Students will delve deeper into the creative potential of Adobe Creative Suite and will work in groups on real-world print and multimedia productions in collaboration with students involved in performances in the fine and creative arts.
Pre-requisite: FIN 218 or consent of instructor

FIN 303ab Preparation of a Professional Portfolio 3-3-0
The purpose of this course is to encourage students to situate their works within the broad stream of contemporary art as a means of either continuing their study in a variety of fields at the graduate level, or as a preparation for a career as practicing artists. The students should use this course to prepare a professional portfolio of their works, as well as to consider some of the conceptual approaches within which, or against which, they will be operating as contemporary artists.
Prerequisites: FIS 160, FIS 170, FIS 181, and either one of FIS 261, FIS 372, or FIS 382

FIN 388 / HIS 388 Museums and Communities 3-3-0
This inter-disciplinary lecture/seminar course offers students an introduction to a range of theoretical approaches and contemporary developments in the field of Museology. Through case studies and actual work with community groups students will have the chance to experiment with key processes around critical museum work today (rational, documentation, mediation, scenography).
Prerequisites: FIN 235 or consent of instructor

Additional Comparative Arts courses:

CHM 132	The Chemistry of Art Restoration
CLA 120	Classical Archaeology
DRA 170	Introduction to Film
ENG 106	Approaches to Literary Criticism
ENG 235	Cultural Studies History, Theory, and Practice
ENG 280	Literature and Film
ENG 281	Films of Marlon Brando
ENG 282	Film Adaptation
GER 370	Introduction to German Film
PHI 246	The Philosophy of Art
REL 237	Film and Religion
AAD 250	Arts Administration I
AAD 251	Arts Administration II
AAD 252	Arts Administration III
CLA 240	Archaeological Interpretation
CLA 365	Topics Archaeology I
CLA 366	Topics Archaeology II
DRA 319	Film Criticism and Theory
ENG 234	Contemporary Critical Theory
PHI 364	Postmodernism
SPA 318	Spanish Cinema
SOC 225	Quebec Society II

History

In an increasingly compartmentalized and specialized world, historical study is one of the best ways to promote an ability to synthesize information, to expand cultural awareness and to gain access to the many creative ways in which humans have responded to the challenges which face them. In addition, historical study deepens a number of specific skills which are invaluable assets for graduates entering the labour market and taking on the duties of citizenship, such as the ability to engage in research, to evaluate evidence and to present conclusions in a reasoned and coherent way. Traditionally, history graduates have gone on to careers in teaching, journalism and law, or to graduate studies in history, archival studies, museology, international affairs and public administration, but history graduates also fare well in today's knowledge driven economy because of their well-honed communication and research skills. Many recent graduates are now employed in the private sector, often in communications and management capacities.

Areas of Specialization

The History Department offers introductory courses, and courses which cover the historical development of three main geographic areas: North America, Europe and the Developing World.

In the senior years, courses reflect the research interests of its faculty, which include indigenous and northern history, public history, environmental history, cultural and political history, military history, history of communications and technology, gender and family history, and the history of disease.

The Program

We believe that all graduates, whether Majors or Honours, must possess the ability to undertake self-directed intensive research, to be familiar with a wide range of past societies and to be aware of the interpretive and methodological options for analyzing them. The programs are constructed to allow students to acquire this knowledge and develop these skills. In the first year of the program, students learn about the main currents and major phases of history; they acquire the skills necessary to contextualize primary documents and to analyze them in order to extract usable historical data. At the same time, they are introduced to the major interpretive approaches of historians, developing an ability to read secondary sources in an efficient and critical manner. Finally, students learn to construct significant research hypotheses, to design a viable research plan and to present the results of their research in a reasoned and coherent manner.

In the following years students gain a deeper familiarity with the histories and historiography of Europe (especially Western Europe), of North America and the developing world, through more intensive chronological/geographic surveys. In the 200- and 300-level courses, discussion and debate begins to form a larger portion of the instructional method than in the introductory surveys. The 300-level courses approach the past from a thematic and comparative perspective, providing an introduction to a number of historical subdisciplines, as well as to their unique methodologies and rich theoretical literature.

The 400-level seminars are our capstone courses. In these courses, students have an opportunity to deepen their knowledge of a particular period or theme through a more thorough reading of relevant literature. The seminar format also fosters student participation and contribution to an ongoing communal research effort through debate, discussion, oral presentations and commentary. Finally, seminar participants engage in intensive research (including primary sources) on a specific topic within the area, present their research program and findings to colleagues and learn to revise their final papers or reports in light of commentary and criticism from the instructor and their peers.

PROGRAMS AND REQUIREMENTS

Honours in History

Students enrolled in the honours program must successfully complete 60 credits in history courses or cognates in which they must maintain an overall average of 70%. The last 30 credits of the program must be completed at Bishop's. The 60 credits required for the Honours degree must include:

- HIS 110 & ILT 102; two of HIS 104, HIS 108 and HIS 109 for students in the 90-credit B.A. program; HIS 110; two of HIS 104, HIS 105, HIS 107 and HIS 109 for students in the 120-credit B.A. program.
- A minimum of 18 credits in 200-level courses (National Histories and Surveys) including six credits in North American history, six credits in European history, three credits in the history of the Developing World, and HIS 200.
- A minimum of 12 credits in 300-level courses (Thematic, Comparative and Area Studies),
- A minimum of 12 credits in 400-level courses (Seminars).
- And two other history, cognate or cross-listed courses.

Major in History

Students enrolled in the Major in History must successfully complete 48 credits in history courses or cognates, of which a minimum of 24 credits must be completed at Bishop's. The 48 credits required for the Major must include:

- HIS 110 & ILT 102; two of HIS 104, HIS 108 and HIS 109 for students in the 90-credit B. A. program; HIS 110; two of HIS 104, HIS 105, HIS 107 and HIS 109 for students in the 120-credit B.A. program.
- A minimum of 18 credits in 200-level courses (National Histories and Surveys) including six credits in North American history, six credits in European history, three credits in the history of the Developing World, and HIS 200.
- A minimum of 9 credits in 300-level courses (Thematic, Comparative and Area Studies).
- A minimum of 6 credits in 400-level courses (Seminars)
- And one other history, cognate or cross-listed course.

Major in Public History

Public history is a growing field, with new opportunities opening for history majors in recent years in such areas as historical societies, museums, corporations, municipalities, NGOs, provincial and federal government agencies and private genealogical enterprises. The program provides students with the opportunity to explore a variety of non-teaching careers in history and prepare them for employment in a field which is expected to continue to show expansion. Students enrolled in the Public History Major must successfully complete 48 credits in history courses or cognates, of which a minimum of 24 credits must be completed at Bishop's. The 48 credits required for the Public History Major must include:

100-level:

HIS 110 & ILT 102; two of HIS 104, HIS 108 and HIS 109 for students in the 90-credit B.A. program; HIS 110 & ILT 102; two of HIS 104, HIS 105, HIS 108 and HIS 109 for students in the 120-credit B.A. program.

200-level:
HIS 200
HIS 240
6 credits in Canadian or Quebec history
6 credits in Europe and/or Developing World (3 credits may be replaced by * below)

300-level: *9 credits total*

At least 3 credits among:

HIS 391	Archival or Institutional Internship
HIS 392	Research Internship

The remainder among:

HIS 328	First Nations/Settler Relations in Canada
HIS 332	The Celluloid Republic
HIS 333	Society & the Environment
HIS 368	The Young in Western Society
HIS 371	A History of Communications
HIS 372	Historical Methods and Primary Source Research
HIS 373	War and Canadian Society
HIS 379	History and the Archives
HIS 384	Memory, truth and reconciliation in the developing world
HIS 385	The Artifact as Evidence: An introduction to material culture history
FIN 235	Museology
FIN 336	Museums and Communities

*3 credits in the above list may be replaced by * below*

400-level: *6 credits total*
3 credits in HIS 450 Public History seminar

3 credits from:

HIS 404	The Numbered Treaties
HIS 413	British North America
HIS 414	Environment and Society in North America
HIS 432	Social History of Disease in the West
HIS 449	English Family from the Black Death to the Present
HIS 455	Public History Practicum

And two other history, cognate or cross-listed courses.

** Up to 6 credits from the following list of courses may be used to replace a 200-level European or Developing World course, and/or a 300-level course from the non-internship list.*

BMG 214	Introduction to Entrepreneurship
FIN 218	Digital Imaging for the Artist
POL 214	Public Administration
POL 334	Public Policy Analysis

Minor in History

Students enrolled in the minor must complete 24 credits in History courses or cognates including:

- 6 credits in 100-level courses
- A minimum of 12 credits in 200- or 300-level courses including 3 credits in each of the three geographic areas offered by the Department
- And two other history, cognate or cross-listed courses.

Indigenous Studies Minor

The Indigenous Studies Minor (ISM) is designed to introduce students, through an interdisciplinary approach, to the global processes of cultural encounters and the resultant responses of resistance, accommodation, and adaptation. Students will be exposed to theories and world-wide applications of, and responses to, imperialism and colonialism, as well as decolonization and post-colonialism.

Program prerequisites:

No specific prerequisites are necessary, except for the ESG courses which will be subject to the instructor's approval. See the Calendar for details.

Course sequence:

The Minor requires the completion of 24 credits; one of which must be either HIS 108, A Global History of Indigenous Peoples, ENG 123 Introduction to Indigenous Literatures or SOC 107 Introduction to First Nations Societies. The other mandatory course would be at the higher end of the student's scholastic learning. Students take either HIS 404 The Numbered Treaties or ENG 358 Approaches to Indigenous Literary Cultures in Canada

or SOC 396 Post Colonial Theory. Both sets of mandatory courses are designed to give students the opportunity to experience Indigenous Studies within an interdisciplinary framework. The remaining 18 credits must be taken from the list of courses below. Note that the courses will be offered on a rotational basis so students may wish to consult with the course instructor or the ISM coordinator when considering their course options.

The required courses for the minor are the same for the 120-credit and 90-credit programs.

ONE of the three following courses:

HIS 108	A Global History of Indigenous Peoples
SOC 107	Introduction to First Nations Societies
ENG 123	Introduction to Indigenous Literatures

SIX (18 credits) from:

HIS 328	First Nations Settler relations
HIS 255	History of Modern Southeast Asia
HIS 257	Latin America to 1800
HIS 272	History of Modern India
HIS 279	The Middle East in the Twentieth Century
CLA 240	Signs of the Past: Archaeological Interpretation
ENG 228	Introduction to Post-Colonial Literature
ENG 375	Colonial Narratives
REL 257	Christianity: From Constantine to the Twenty-first Century
ESG 339	The Canadian Arctic
ESG 340	The Circumpolar North
ESG 350	Environmental Justice
POL 234	Politics of Africa
POL 236	Middle East Politics
POL 335	Politics of Latin America and the Caribbean
SOC 207	First Nations: No Place to call Home
SOC 209	Young Offenders
SOC 235	Women and the Penal System
SOC 245	Race and Ethnicity
SOC 309	Advanced Seminar in Global Colonization and Decolonization
SOC 395	Advanced Theories of Social Sustainability

ONE of:

HIS 404	The Numbered Treaties
ENG 358	Approaches to Indigenous Literary Culture in Canada
SOC 396	Post-Colonial Theory

Double Counting

The maximum number of courses that can be double counted towards a History Major or History Honours degree is 4 courses. For a History Minor, the maximum number of courses is 2.

INTRODUCTORY COURSES

HIS 104ab The Development of the West 3-3-0

An introduction to the major developments in Western history from the end of the ancient world to the early nineteenth century. Topics will include the origins and evolution of medieval civilization, and its breakdown in the Renaissance and the Reformation; political, cultural and economic developments in early modern Europe, and the challenges to the ancien regime posed by the French and industrial revolutions.

HIS 105ab The 20th Century World 3-3-0

The 20th century has been an age of extremes. It has witnessed the rise of human rights, great economic and social transformations, and wars of unprecedented severity. Topics to be discussed include the rise of totalitarian movements, notably fascism and communism, warfare, de-colonization, economic crisis, the genocides of the 20th century in Europe and Asia, and the post-1945 East-West schism.

HIS 108ab A Global History of Indigenous Peoples 3-3-0

This introductory course is designed to acquaint students with the global processes of contact and colonization through the presentation of colonial and post-colonial theory and the examination of specific case studies within Asia, Africa and North America. While largely historical in content, guest speakers and other resources will be used to expose students to interdisciplinary approaches to studying these continuing phenomena.

HIS 109ab New World: The Americas to 1850 3-3-0

An introduction to the history of North and South America from the pre-Columbian era to the mid-19th century. The main topics include a survey of pre-Columbian civilizations, contact between native Americans and Europeans, the rise and fall of European empires in the Americas, the creation and growth of independent nation states in the New World.

HISTORIOGRAPHY AND METHODS COURSES

HIS 110a Introduction to Historical Studies 3-3-0

This first-year course is designed for History Majors. Paired with one of the introductory survey courses, it will introduce students to the ways in which historians practice their profession, through the use of primary material, the critical assessment of secondary works, the exploration of basic research strategies, and interpretive discussion and debate. The 1-credit lab ILT 102 is to be taken concurrently with HIS 110.

Co-requisite: ILT 102

ILT 102 Information Retrieval and Evaluation Skills for the Humanities (Lab) 1-0-1

The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments, including the correct use of library resources such as the online catalogue, periodical indexes and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet, and the critical evaluation of retrieved resources. Academic integrity plagiarism and the correct citation of print and online sources are also covered. Taught in conjunction with a research-based course the specific resources relevant to research in the Humanities are introduced and the students retrieve the material necessary to complete the essays for their particular course. The course is taught in the library's electronic classroom, and each week the students are given the opportunity for practical experience.

To see how ILT 102 is currently linked to your program, check requirements under various departments in the Humanities (e.g., required for Modern Languages and History). Course is open to all students, regardless of program.

HIS 200ab Approaches to the Past: History in Theory and in Practice 3-3-0

This course will provide an analytical survey of the development of the historical consciousness from the ancient world to the present, through a detailed examination of selected classical, medieval, modern and postmodern texts. Philosophical issues in the study of the past, such as causation, objectivity and the nature of historical explanation will also be covered.

Not open to students with credit in HIS 367

Prerequisite: HIS 110

HIS 240ab Introduction to Public History: Community Heritage and the Preservation of the Everyday 3-3-0

Using the rich historical resources of the Eastern Townships, including its various archives, museums and historical societies, students will learn about, and do, the work of public historians in the fields of local history, material culture, heritage and preservation. Readings, lectures and films will also be used to supplement students' experiences of public history and the contexts in which it operates.

HIS 372ab Historical Methods and Primary Source Research 3-3-0

This course focuses on methodological approaches through an examination of important studies in the fields of social, economic, cultural and political history. Students will also apply research and analytical techniques in a project based on primary source materials.

NATIONAL HISTORIES AND SURVEYS

North America

HIS 207ab Canada 1867-1945 3-3-0
This course will trace the political, social, economic, and cultural history of the Canadian federation from 1867 to 1945. Special attention will be given to such topics as geographic expansion, relations among the founding peoples, the Riel Rebellions, the move towards Canadian autonomy, foreign relations, the world wars, the role of women in society, the Great Depression, and politics and reform movements.

HIS 211ab Canada Since 1945 3-3-0
This course will trace the political, social, economic, and cultural history of Canada since the end of World War Two. Special attention will be given to such topics as postwar economic prosperity, relations with the United States, the "golden age" of Canadian foreign policy, the baby-boomer generation, feminism and the rights of women, constitutional change, Medicare, bilingualism, Pierre Trudeau, and multiculturalism.

HIS 214ab The United States, 1877-1945 3-3-0
This course will examine American political, social, cultural, economic, diplomatic, and military history from the era of reconstruction until the end of World War II. Special emphasis will be placed upon industrial growth, continental expansion, the closing of the frontier, urbanization, immigration, progressivism, the two world wars, the depression, and America's rise to global power.

HIS 215ab The United States to 1877 3-3-0
This course traces the evolution of American society from the Colonial period, through the Revolutionary Era to the Civil War and Reconstruction. Among the topics to be discussed are the colonial experience, the forging of American republicanism, the Constitution, the growing complexity of ante-bellum society, the problem of slavery and the crisis of American federalism.

HIS 217ab The United States Since 1945 3-3-0
This course will examine American political, social, cultural, economic, diplomatic, and military history since 1945. Emphasis will be placed on the postwar economic boom, social change, civil rights, the cold war confrontation, the war on poverty, the 1960s and the war in Vietnam, Nixon and Watergate, Reaganism, and the culture wars of the 1990s.

HIS 221ab Pre-Confederation Canada 3-3-0
A history of the various Canadian peoples and communities of pre-Confederation Canada beginning with First Nations through the establishment of French-Canadian society on the St Lawrence, the Anglo-American settlers of early Nova Scotia, the Loyalists of Ontario and the Maritime provinces, and including the migrants of the early nineteenth century. The focus of the course will be on social, economic and cultural development.

HIS 265ab Québec: Political Change and Industrialization 1840-1930 3-3-0
Beginning with the Union period, this course traces the main political, economic and social developments of an age marked by Confederation, the growing conflicts between French and English Canada, and successive waves of industrialization and urbanization. The course will also deal with cultural development in this period, with particular emphasis on the struggle between liberalism and traditional nationalism.

HIS 266ab Contemporary Québec: 1930 to the present 3-3-0
A social, political and economic history of Quebec from the Depression to the present which highlights the transformations wrought by World War II and the Quiet Revolution. Topics to be examined include the decline of clerical influence, the rise of the labour movement, the emergence of new Québécois elites, the evolution of the provincial state, the evolution of nationalism and the growth of the sovereignty movement.

HIS 357 Survey of the African American Experience, 1619 to 1896 3-3-0
Through a combination of lectures and discussions, this course explores the African-American experience in slavery and freedom from colonial times to the late nineteenth century. Topics include frontier race relations, the Atlantic and domestic slave trade, industrial as well as plantation slavery, slave resistance and revolt, African-American religiosity and culture, free blacks in antebellum America, black abolitionism, the role of African Americans in the Civil War and Reconstruction, and the emergence of segregation. Drawing on recent advances in cultural and social history, the course also focuses on legislation, executive policy, and landmark Supreme Court opinions.

Europe

HIS 232ab France: Enlightenment & Revolution 3-3-0
An examination of eighteenth-century social and political controversies, key enlightenment figures and intellectual trends, the 1789 Revolution, counter-revolution, the Terror, and Napoleon.

HIS 233ab Britain in the Twentieth Century 3-3-0
British politics and society from the Edwardians to the present. Major topics will include the impact of the two World Wars, economic and social developments in the interwar and postwar periods, the interwar crisis in foreign relations, the emergence of the Welfare State and the rise and fall of consensus politics.

HIS 234 The Italian Renaissance 3-3-0
This course will examine the Italian Renaissance as a pivotal moment for social, cultural, and political change. By examining the relationship between developments in art, literature, and popular mentalities of the time, the course will explore the Italian Renaissance as a catalyst for the broader transformation of the early modern world.
Cross listed as ITA 240

HIS 237ab The Formation of Modern Europe 1815-1914 3-3-0
This course will provide an analysis of the concepts, forces and movements which created modern Europe in the nineteenth century. It will study the articulation of ideologies, the contest for emancipation in its various forms, the construction of new concepts of citizenship and political power, the technological and economic growth of the period, with its associated social tensions, and the growing rivalries among the emerging nation-states of the Continent. It will end by looking at the internal and external conflicts - socioeconomic, political and cultural - that set the stage for the murderous struggles of the early 20th century.
Not open to students with credit in HIS 365

HIS 238ab Russia in the Twentieth Century 3-3-0
An examination of the main features of Russian and Soviet history from the Russo-Japanese War and the 1905 Revolution to the present. Elements of continuity and discontinuity in that history will be highlighted. Focus will be placed on the Revolutions of 1917, the two World Wars, collectivization and industrialization and post-WWII expansion, consolidation and rivalry with the West.

HIS 243ab Medieval England 3-3-0
A comprehensive survey of English history from the Anglo-Saxons to the late fifteenth century. Attention will be given to the development of English institutions in the pre-Conquest period, the impact of the Norman Conquest, the development of feudalism and feudal monarchy, medieval society and economy, and the growth of parliamentary institutions.

HIS 246ab Medieval and Early Modern Ireland 3-3-0
This course will provide a broad survey of Irish political and social history in the medieval and early modern periods. The course is divided into three parts. In the first section the Norman invasion and the struggle for the lordship of Ireland will be examined. The second part will deal with the impact on Ireland of the Tudor conquest, the Reformation and the British wars of the seventeenth century. The third part will chronicle the state under the Protestant ascendancy, prior to the union of 1801.

HIS 247ab Modern Ireland 3-3-0
This course examines the history of Ireland since the rebellion of 1798. Particular themes include Anglo-Irish relations, famine and emigration, nationalism and Home Rule, unionism and Ulster, cultural achievement, partition and independence.

HIS 248ab Early Modern England 1500 to 1750 3-3-0
A survey of the transition of England from a feudal polity and society into a modern nation, focusing on themes of stability and conflict from the Tudor period until the mid-eighteenth century. Major topics to be studied include the rise of the Tudor State, economic and social change in the early modern period, constitutional and religious crises and their resolution in the seventeenth century, the rise of Empire and the development of a pre-industrial economy and society.

HIS 249ab Britain in the Liberal Age 1750-1914 3-3-0
This course will study the interaction of political, social, economic and cultural change from 1750 to World War I. Topics to be examined include the experience of and response to industrialization, the rise of economic and political liberalism, the changing forms and growth of organized labour, foreign policy and imperialism, the ethos of the Victorian age — domestic, moral and cultural — and its late nineteenth century transformation.

HIS 252ab The Medieval Mediterranean World 3-3-0
This course explores the Medieval Mediterranean World from the historical perspectives of its three main regions: The Middle East, North Africa and Southern Europe. Themes to be examined include religion and politics, gender and sexuality, as well as the production and transfer of knowledge.

HIS 253ab A History of Medieval Europe 3-3-0
This course is an introduction to the history of Europe from the breakdown of the ancient world to the beginning of Modern Europe. After a survey of the Germanic, Roman and Christian roots of medieval society, special attention is given to those institutions and developments which characterized the civilization of the high Middle Ages: the 12th century renaissance, the Christian ideal, the medieval university, relations between church and state, feudal society, the crusades, chivalry and the medieval style in the fine arts.

Developing World

HIS 255ab History of Modern Southeast Asia 3-3-0
The dozen countries south of China and east of India are diverse but nevertheless form a coherent region of study. In this course, the national experiences of each country are compared since about 1800. Topics to be covered include the emergence of indigenous political units, trade, European and American colonial rule, the rise of nationalism, the impact of the Pacific War in the 1940's, economic development after independence, the creation of regional organizations, human rights and environmental change.

HIS 256ab Latin America 1800 to the Present 3-3-0
This course will survey the history of Latin America and the Caribbean from c. 1800 to the present day. The course will deal with the major social, economic and political processes of the period. The class will also provide insight into problems of development and underdevelopment as well as a discussion of the movements for social change.

HIS 257ab Latin America to 1800 3-3-0
This course will provide a survey of the history of Latin America and the Caribbean from pre-Columbian times to the wars of independence. Topics to be explored include the nature and development of pre-Columbian cultures and civilizations, the impact of European contact and transatlantic migrations, the formation and evolution of colonial societies, economies and cultures, and the origins of national political movements in the late 18th century.

HIS 278ab A History of the Middle East to 1919 3-3-0
The course includes an introduction to the legacy of early and pre-Islamic civilizations in the Middle East, an examination of the rise and influence of Islam in the region, an account of the emergence, growth and decline of the major Islamic empires, and an assessment of their achievements and challenges. Special attention is given to the relations between the Middle East and the West and particularly to the role of the Great Powers in the affairs of the Ottoman and Persian empires. The interactions of the West and the Middle East prior to 1919 greatly influenced the course of Middle Eastern history and politics up to the present.

HIS 279ab The Middle East in the Twentieth Century 3-3-0
The course is a study of the forces and events that have shaped the contemporary Middle East since the First World War. It explores the role played by Western colonial powers in forging a new political and territorial order in the region, the rise and growth of nationalism and the struggles for independence that marked the first half of the century. It examines the stormy relations between the Middle East and the West after the Second World War and the ways in which the involvement of major world powers in the area and internal regional developments molded the political evolution of the contemporary Middle East. Special attention will be given to the growing dominance of the United States, the resurgence of Islam, the Arab-Israeli conflict and the Gulf wars.

HIS 283ab A History of Chinese Civilization 3-3-0
This course introduces China's history and cultural heritage from antiquity to the end of the 19th century C.E. Political history, modes of governmental and socioeconomic organization, and developments in thought and religions will be examined in three major epochs: a formative age, from antiquity into the third century B.C.E.; an early imperial age, from the third century B.C.E. to the 10th century C.E.; and a later imperial age, from the 10th century C.E. to the late 18th century C.E.

HIS 284ab History of Modern China 3-3-0
The course examines China's transformation into a modern nation-state. Topics to be discussed include China's four political revolutions, the role of Japanese aggression and civil war, the construction of an industrializing economy, as well as the transformation of Chinese society and culture.

HIS 285ab The Global Economy in the Asian Age, 1400-1800 3-3-0
Now that we are witnessing the rise of an Asia-centered world with China and India as its locomotive, we need to ask whether this development represents a return to Asia's traditional dominance before 1800. This course will describe the pattern of global trade during the period 1400-1800. The role of money in the global economy, the interaction between European expansion and other parts of the world will be discussed. Factors leading to the rise of the West as the leader of the world system after 1800 will also be examined.

THEMATIC COURSES, COMPARATIVE COURSES AND AREA STUDIES

HIS 308ab Women in America, 1765-1920 3-3-0
This course focuses on the experience of women from colonial times to the adoption of the 19th Amendment in 1920. Drawing on the growing literature on Women's History and recent scholarship on gender, sexuality, and race, students will explore the conditions and challenges women faced during the Revolutionary Era through to the nineteenth century. The course will examine changing perceptions of gender, women's roles in the public and private spheres, female education and work experience, and the impacts of the Revolution, Civil War, and World War I on women. Slavery and women's demand for the franchise will also be discussed.

HIS 315ab The American Civil War and Reconstruction 3-3-0
This course surveys events contributing to sectional strife in the late antebellum period and explores scholarly interpretations of both the Civil War and Reconstruction. It also deals with how these formative periods have been remembered by succeeding generations of Americans. The course examines the military campaigns and draws on recent advances in social, cultural, and African-American history to study the home fronts and identify social changes in both the North and South that help to provide new perspectives on Emancipation, the politics of Reconstruction, and the onset of Redemption.

HIS 328ab First Nations/Settler Relations in Canada 3-3-0
Through a variety of lectures, readings and films, this course will focus on the legal and political issues and events that have shaped First Nations/settler relations from 1763 to the present. Topics to be examined include: treaties, education, the Indian Act, Aboriginal protest movements and self-government negotiations.

HIS 331ab Women in 19th and 20th Century Canada 3-3-0
This course will expose students to a variety of issues and experiences that have been historically relevant to women. Particular attention will be paid to the experiences of Aboriginal women, the impact of changing technology on women's work and women's participation in politics.

HIS 332ab The Celluloid Republic 3-3-0
This course focuses on Hollywood's role in shaping and reinforcing the core values, symbols and dominant paradigms of Americans political culture from the 1930's to the 1980s. Insights derived from the work of political and cultural historians will be brought to bear in an analysis of films including Mr. Smith Goes to Washington, Citizen Kane, The Manchurian Candidate and All the President's Men.

HIS 333ab Society and the Environment 3-3-0
The purpose of this course is to introduce students to the environmental history of Canada, particularly during the 20th century, with an emphasis on the social construction of nature by Canadians and the relationship that exists between the environment and society as a result. Discussions of issues such as natural resource extraction, monocultural forests and farmlands, Aboriginal land claims and the development of national parks will be underpinned by theoretical explorations of concepts such as landscape, conservation and traditional ecological knowledge.

HIS 358ab Europe's Queer History 3-3-0
This course explores the role of sexual and gender minorities in European history. Through lectures and discussions around primary texts, students will engage the changing configurations of European queerness. Topics of study will include processes of constructing sexual difference, the daily lives of queer historical actors, the use of political and judicial power to control sexuality, and the meanings of emerging forms of queer identity. The course will cover Classical Greece and Rome, medieval Christian Civilization, the emerging queer urban culture of Renaissance and Enlightenment Europe, and the modern transition to full-fledged queer subjectivity.

HIS 359ab American Foreign Relations in the Twentieth Century 3-3-0
The participation of the United States in world affairs from the Spanish-American War to the Cold War: the conflict of ideals and self-interest, of ideology and realism, in the conduct of foreign policy

HIS 361ab Cities: Urban Life and Society in Early Modern Europe 3-3-0
This course introduces students to some of the central issues in the study of early modern European urban history, and to the diverse possibilities of investigation available within it. Among the topics to be discussed are the relationships between citizens and the urban environment in which they lived, the organization of urban life, as well as the many faces of urban culture.

HIS 363ab Europe in Crisis, 1450-1648 3-3-0
This course examines the steady decline and near collapse of European civilization from a high point of cultural innovation in the Renaissance to the depths of the Thirty Years War. Topics include European aggression in the new world, the splintering of Catholic unity, the witch panics, the formation of states, strategies of control and repression.

HIS 364ab European Imperialism, 1870-1918 3-3-0
Few nineteenth-century topics have generated more controversy than the establishing of a European overseas hegemony. The course examines the motives behind expansion within the metropolitan states and the impact of the European presence on those areas of the globe which became the objects of a European embrace.

HIS 366ab European Diplomacy since 1914 3-3-0
This course examines the international relations and foreign policies of the major European states from the beginning of World War I to the Cold War and the emergence of modern Europe.
Not open to students with credit in HIS 277
Cross listed as POL 277

HIS 368ab The Young in Western Society 3-3-0
A course which examines the experience of children and youth in European and North American society from the late Middle Ages onwards. Among the topics to be discussed are changing notions of childhood and youth; the development of educational, welfare and "child-saving" systems; social, cultural and economic change and its impact on the young; and the role of youth in shaping the larger culture and society of the west.

HIS 370ab The Americas: A Comparative Colonial History 3-3-0
Examines the rise and fall of the great European empires in the Americas, with an emphasis on the process of implantation and growth of new societies. Topics to be examined include contact with Native peoples, demographic features of early colonial populations, slavery and colonial economies, the rise of colonial elites and their challenge to imperial authority.

HIS 371ab A History of Communications 3-3-0
Examines the evolution of different modes of communication from the advent of writing systems, through the printing press to the electronic media of the twentieth century. The focus of the course will be on the social, cultural and economic impact of communication revolutions.

HIS 373ab War and Canadian Society 3-3-0
An examination of the role of war in Canadian society and those factors which have influenced war and foreign policies. Some attention will be paid to the wars of the French regime, the War of 1812 and the Riel rebellions. The course will concentrate on the twentieth century: the South African War, the two world wars, Korea, and the role of Canadian diplomacy.

HIS 374ab Canada and the World in the 20th Century 3-3-0
Topics include Canada and imperialism, the two world wars, the development of Canadian foreign policy, the golden age of Canadian diplomacy, Canada and the League of Nations, and the United Nations.

HIS 379ab History and the Archives 3-3-0
Archives house the history that people access to find out about their past. It is in archives, they can discover their personal genealogy or the root causes of political or economic crises; it is there, they can recover the institutional or cultural memory of people, communities or nations. How archivists collect, organize, and preserve this diversity of histories will be the focus of this course. Through lectures, readings and discussions, students will be introduced to the practices of archival sciences and management and will be provided with the necessary preparation for participating in HIS 391, as an archives intern.

HIS 380ab Women in Modern British History 3-3-0
This course is a survey of the position, roles and experiences of British women from the era before the industrial Revolution to present times. The period under discussion is subdivded into a number of chronological sections, each of which is understood to have been moulded by a set of specific themes. Themes analyzed in the lectures and discussions include women in pre-and proto-industrial economy; women's work in industrial capitalism; women's education; the suffrage movement; women in the two World Wars, the labour movement, and in welfare campaigns.

HIS 381ab The Cold War in Global Context 3-3-0
This course will analyze the origins, course and consequences of the Cold War from the end of World War II to the collapse of the Berlin Wall. Among the topics to be studied are the ideological and geopolitical foundations of Soviet-American antagonism, the assumptions and objectives of each bloc, the emergence of the Third World and the impact of Cold War on its evolution, the building of non-alignment and neutrality as responses to a bipolarized world, and political/diplomatic competition and 'hot wars', in particular in Asia and Africa.

HIS 382 / FIH 246 Public Art and Monuments 3-3-0
An exploration of art made for public spaces and public viewing taking into consideration aspects such as: site, natural environment or urban settings, commemoration and politics, the public sphere and the audience.

HIS 383ab Human Rights and humanitarian organizations 3-3-0
Have non-governmental organizations made a difference? How have they interacted with and altered the international system? This course examines the border-crossing activities and influence of transnational human rights, humanitarian and other non-governmental organizations from 19th century struggles against colonialism to 20th century campaigns to ban land mines and promote universal human rights.

HIS 384ab Memory, truth and reconciliation in the developing world 3-3-0
One major method for reconciling post-conflict societies to the traumatic memories of conflict in recent years has been the "truth commission." This course surveys truth and reconciliation commissions in Southeast Asia, South Africa and Latin American and the ways in which they are used to construct alternative national narratives in the search for usable pasts. Comparisons will be drawn where appropriate with truth commissions and their uses of memory in other regions.

HIS 385ab The Artifact as Evidence: An introduction to material culture history 3-3-0
The purpose of this course is to expose students to the nature and role of material culture in various public history venues, notably museums and archives. Students will be introduced to theoretical and methodological approaches to material culture and gain experience in working with artifacts as historical evidence. Themes to be discussed include: provenance, artifact conservation, and the role they play in commemoration and preservation of historical memory. Assignments will include the creation of "artifact biographies" and essays on issues pertaining to material culture history.

HIS 388 Museums and Communities 3-3-0
This inter-disciplinary lecture/seminar course offers students an introduction to a range of theoretical approaches and contemporary developments in the field of Museology. Through case studies and actual work with community groups, students will have the chance to experiment with key processes around critical museum work today (rational, documentation, mediation, scenography).
Prerequisites: FIN 235
Cross listed as FIN 388

HIS 389ab Women in the Islamic World 3-3-0
This course examines the history of the Islamic world from the pre-Islamic era to modern times, through women's lives. Following a mix of thematically and chronologically organized topics, this course covers key historical events, mainly in the Middle East and North Africa, such as women's status in early Arabia, gendered citizenship in the Islamic state and Islamism's contemporary debate over gender.

HIS 391ab Archival or Institutional Internship 3-3-0
Unpaid internship in a local archival repository or other institution under the joint supervision of an archivist or other representative and a member of faculty. Students will be evaluated on the completion of pre-established objectives and must be prepared to perform a variety of projects such as writing a major report, preparing an archival inventory or a finding aid.
Prerequisites: HIS or permission of the department.

HIS 392ab Research Internship 3-3-0
Unpaid internship under the supervision of a member of the department. The student will be responsible for undertaking research related activities in support of the research project of a faculty member.

SEMINARS

HIS 404ab The Numbered Treaties 3-3-0
From 1871 to 1921, Canada entered into a series of treaties with many of the First Nations who occupied territory in what is now known as Ontario, the prairie provinces and some areas to the north. These treaties, numbered 1 to 11, formed the basis of the First Nations' relationship to the Canadian state. The scholarship on this relationship and on many other related points is divided and controversial. This course, through readings, seminar discussions and primary source materials, will explore the numbered treaties: their terms, the reasons for their negotiation, the expectations of the various parties, and the scholarly debates that surround their meaning and significance.

HIS 407ab Political History 3-3-0
In the past few decades, the "New Political History" has gone beyond the study of great men and embraced theoretical perspectives drawn from the humanities and social sciences. Drawing on examples from British, French, American and Canadian historiography this seminar will introduce students to the major schools that inform this vibrant and dynamic sub discipline.

HIS 412ab Colonial America 3-3-0
Examines through readings and seminar discussions, the social, economic, cultural and political development of the Anglo-American colonies to 1776. Topics to be covered include the formation of colonial societies, the creation of slave and free economies, religious and political thought in transition, and the Anglo-American colonies as part of the British empire.

HIS 413ab British North America 3-3-0
Examines the history of the British North American colonies from a regional and thematic perspective. Topics include economic growth in an imperial context, immigration, the rebellions in the Canadas, regional and ethnic identities, and relations with the United States.

HIS 414ab Environment and Society in North America 3-3-0
This course traces the relationship Canadians and Americans have had with their environment within a political, economic and intellectual context. Intertwined with this history will be First Nations' views and issues with respect to the land and natural resources.

HIS 415ab The American Civil War 3-3-0
A seminar course which will analyse both the cause of the conflict and its political, social, military and diplomatic consequences.

HIS 421ab The War in Vietnam 3-3-0
This course examines, through a series of seminars, the causes and events of the Vietnam War, its political and social impact on the United States, as well as its effects on international relations.

HIS 430ab Gender and Sexuality in the Pre-Modern World 3-3-0
This seminar course examines both the construction and everyday practices of gender and sexuality before the rise of modern viewpoints and sensibilities on the subject. By looking at various cultural groups, discussions will focus on the legal, socio-economic and cultural processes that shaped pre-modern understandings of these changing concepts. Issues such as the role of women in society, gender identity, masculinity/femininity, and marginalized sexual or gender practices will be analyzed taking into account the development of different perspectives within the historical profession.

HIS 431ab Inquisitions, Law and Society 3-3-0
This seminar course focuses on the changing faces of inquisitorial practice, from the nascent medieval Inquisition and infamous characters like Bernard Gui to the modern papal version headed by Cardinal Ratzinger, not forgetting of course Torquemada's Spanish Inquisition and its less known Portuguese cousin. Relying on a thematic approach, the course will particularly examine the social and legal contexts of inquisitorial practice.

HIS 432ab The Social History of Disease in the West 3-3-0
This seminar course will explore the construction of disease and its social and political repercussions by focusing on specific epidemics that have indelibly left their mark on the West. In particular, students will utilize primary sources within a corpus of historical literature to unravel the complex interactions brought about by epidemics such as the Black Death in Medieval Europe, Syphilis across the Early Modern World, Smallpox in the Americas, and most recently AIDS.

HIS 434ab Ideology and Revolution, 1789-1849 3-3-0
An examination of the emancipatory drives - democratic, liberal, socialist, feminist, nationalist - that defined Europe from the 1789 French Revolution to the mid-century revolutions which swept across the continent. The course explores the interplay of ideology and action, including revolutionary violence, to effect change and promote "progress".

HIS 436ab Europe: State and Society in Transition, 1500-1800 3-3-0
This seminar course examines the development of early modern European society by focusing on popular culture and the points of contact between this culture and literate culture, including the state. Topics include: the material conditions of life, the wars of religion, popular pastimes and plebeian morals.

HIS 437ab International Relations from 1870 to the present 3-3-0
Since the end of the nineteenth century, the basis, nature and issues of international relations have profoundly changed. Through assigned readings and discussions, this seminar course will examine the evolution. Topics to be studied include the historiography of international relations, 'balance of power' system of the nineteenth century and its breakdown, the diplomatic history of the period of the world wars, the role of the UN, the Arab-Israeli conflict, the non-alignment movement, peace-keeping, and the rise of terrorism as a major international issue.

HIS 438b War and Society in Europe, 1914-1945 3-3-0
The first half of the 20th century in Europe was unprecedented in terms of the extent and intensity of war-related destruction and general social turmoil. Through assigned readings and discussions, this seminar course examines the causes and the impact of violent conflict in this period.

HIS 445ab Britain in the First World War 3-3-0
A seminar course which examines the impact of World War I on the politics, society, culture and economy of Britain. Topics to be studied include military strategy, political leadership and party alignments, conscription and the war economy, labour and the war, the changing roles and experiences of women, the trenches and the trench experience, and the growth and ebb of government intervention.

HIS 446ab Industrialization and Society: Britain 1760-1850 3-3-0
This seminar course will concentrate on the causes and consequences of the Industrial Revolution in the place of its birth. Topics to be examined include the economic and social origins of the Industrial Revolution and changing role of the State; the emergence of class and of popular politics; the formation of modern ideologies, such as liberalism, classical economics, utilitarianism and early socialism; and the effects of industrialization on work, culture and the family.

HIS 449ab The English Family from the Black Death to the Present 3-3-0
A seminar course which focuses on the evolution of the family from the late Middle Ages to the era of mature industrialism. Theoretical and historiographical approaches to the western family will be combined with an empirical investigation of such issues as gender and age relations, demographics, domestic ideologies and the place of the family in wider economic, social and political structures.

HIS 450ab Public History 3-3-0
This course is designed to introduce students to both the theory and practice of public history by examining sources from both Canada and the United States. By focusing on the origins and current issues of the field and by highlighting certain public history domains such as government consulting, museums and heritage sites, and the media, students will learn about information management, the demands of the client-contractor relationship and the ethical issues and controversies which make public history exciting and challenging.

HIS 455ab Public History Practicum 3-3-0
A directed independent study in which the student undertakes historical work in one of a range of institutions or agencies.

HIS 462ab French-Canadian Nationalism 3-3-0
Examines, through a series of seminars, the thought of a number of important French-Canadian nationalists and that of their critics.

HIS 470ab Asia: Constructing a Region 3-3-0
Asia was imagined by Europeans and constructed from outside; yet Asians have increasingly asserted "Asian ways." This course interrogates the idea of Asia and its shifting borders, from orientalism to the discourse of the "Pacific Rim" to pan-Asian and nationalist narratives that place China, Japan, India or Southeast Asian states at the centre. Stress is placed on decolonization, nationalism, economic development through modernization paradigms and their challengers, internal challenges to the developmentalist state, and the interplay of local and international currents.

HIS 471ab A global family? New histories of the United Nations and international organizations 3-3-0
The United Nations has been derided as a useless talking shop, and praised as the best hope of humanity. This course aims to examine the UN, along with its predecessor and affiliated international organizations, on their own terms, as international actors in their own right. It exposes students to newer theoretical approaches in transnational history and highlights the role of international organizations in global politics, economics and social relations.

HONOURS PROJECT

HIS 490a Honours Research Proposal 3-0-0
The preparatory stage of an individual specialized research project on a topic chosen by the student under the supervision of a member of the Department. The student will develop a research proposal which will define a viable topic and present a detailed plan of research. This will include a detailed discussion of the objectives and parameters of the proposed research, an explanation of the theoretical and methodological approaches to be taken and an historiographical overview of the relevant literature. It will also include a description and preliminary analysis of the appropriate primary and secondary sources, a bibliography and a comprehensive proposed structure for the subsequent thesis. The research plan will be assessed by a panel of three members of the Department during the final weeks of the semester.

HIS 491b Honours Thesis 3-0-0
Continuation of HIS 490a. The student will complete the research agenda detailed in HIS 490, and present the findings in the form of a thesis no later than two weeks before the marks deadline. The thesis should be modeled upon a learned article. It should be no more than 10000 words: quality of analysis and conceptual rigour will outweigh exhaustive treatment of the subject. An oral examination will be required, and the thesis will be assessed by the panel of the preceding course.
Prerequisite: HIS 490a

INDEPENDENT STUDIES

HIS 286a Independent Studies for U2 Students
HIS 287b Independent Studies for U2 Students
HIS 386a Independent Studies for U3 Students
HIS 387b Independent Studies for U3 Students

COGNATE COURSES

Classics: CLA 120, CLA 127, CLA 160, CLA 210, CLA 223, CLA 261.

Politics: Cognate courses must be selected in consultation with the Chair prior to registration in the course.

Psychology: PSY 342a, PSY 443b.

Religion: REL 257b.

Sociology: SOC 207b.

Students in the Major or Honours program may count a maximum of 12 credits in cognate courses toward the degree. Students in the Minor program may count a maximum of 6 credits in cognate courses toward the degree.

Liberal Arts

Program Structure

The Bishop's University Liberal Arts Program offers a Major of 66 credits for particularly motivated students interested in the intensive study of the great themes and texts of Western civilization. The heart of the program is the Liberal Arts Foundation Courses (LIB 210–217), each of which engages, in an interdisciplinary and historical way, with a key theme in the history of Western civilization. Students enrolled in the Liberal Arts Program are welcomed into Bishop's with an introductory seminar (LIB 100) and culminate their experience with a final year seminar (LIB 300). Students in the Liberal Arts Program are encouraged to complete a second Major in a discipline of their choice. Many courses may be counted towards the requirements of both Majors. The Liberal Arts Program also offers an Honours degree, which requires the completion of a comprehensive research thesis.

Normally Liberal Arts Majors must declare their second major by the end of their third semester, but if they are CEGEP graduates the second major must be declared at the end of the first semester.

The Liberal Arts Major

Required Courses

1. First Year Seminar Course

First year Liberal Arts majors enroll in this course in their first semester at Bishop's, or the first time it is offered after they become a Liberal Arts Major.

LIB 100a Introduction to the Study of Western Culture 3-3-1
By means of a study of classic texts in the Western cultural tradition this class develops foundational skills in interdisciplinary education, reading, writing, conversation and seminar presentation.

2. Other First Year Requirements

- All Liberal Arts Majors must take CLA 100 or CLA 101 along with LIB 100, a Liberal Arts Foundation Course, and two electives in their first semester at Bishop's.
- All Liberal Arts Majors must take an Introduction to Philosophy and an Introduction to Religion course, as well as a Liberal Arts Foundation Course and two electives in their second semester at Bishop's.
- All Liberal Arts Majors must take FIH 101 or FIH 102 and HIS 104 in their first or second year at Bishop's.

3. Liberal Arts Foundation Courses

Normally Liberal Arts students are enrolled in one Liberal Arts Foundation Course in each semester of their degree. Majors must complete at least 15 Foundation Course credits. Each course has a "culture" component that requires students to attend and discuss a selection of plays, musical performances, art exhibitions, or lectures each semester.

LIB 210 Eros, Love and Desire 3-3-0
When Plato wrote that *eros* is "giving birth in beauty" he sparked a debate that has lasted millennia. Does the erotic lead us upwards toward wisdom, truth and love of thy neighbour? Or is eros the chaotic, anti-social and even destructive force of Dionysian rapture? This course will explore these and other classic theories of eros, love and desire.

LIB 211 Empire and its Enemies 3-3-0

"The sun never sets in my empire," said Spanish King Carlos I in the 16th century—a phrase adopted by the British to signal not only the planetary breadth of their imperial achievement, but also the divine, solar blessing conferred on their conquests by God. What is this imperial aspiration, the desire to dominate? Why is Western history in a sense the history of empires constructed and empires resisted and destroyed? This course will trace the imperial aspiration and its enemies from the Roman city-state to the British nation-state to the eclipse of the state altogether by the modern capitalist corporation. It will analyze the various forms and modes of dominance and resistance up to and including the non-state actors of today.

LIB 212 In Search of Justice 3-3-0

"Let justice roll down like water, and righteousness like an ever flowing stream." So cried the prophet Amos, echoed thousands of years later when Martin Luther King insisted that "Power at its best is love implementing the demands of justice!" This course will explore the changing and always contested meaning of justice in its many forms in Western history. Is justice little more than the ancient Greek claim that one should "do good to one's friends, and harm to one's enemies"? Or is there a universal form of justice that recognizes civil rights and social justice for the poor, women, racial and ethnic minorities, gays and lesbians and other marginalized peoples?

LIB 213 The Use and Abuse of Beauty 3-3-0

French writer Stendhal said in the 19th century that "beauty is the promise of happiness" and upon seeing the beauty of Florence he wondrously proclaimed, "I was in a sort of ecstasy… absorbed in the contemplation of sublime beauty ... Everything spoke so vividly to my soul." Yet only decades later his compatriot, poet Arthur Rimbaud, claimed that he wanted to "abuse" beauty, for he found her "bitter." Dadaist and surrealist artist Tristan Tzara went even further, "I have a mad and starry desire to assassinate beauty…" Does Tzara signal not only a dramatic change in Western art, but the claim that all forms of harmony and beauty, including the personal and the political, are conservative. Or is the beautiful in some important sense still of what we might call "transcendent" importance to human life? This course will explore the fate of the beautiful, from the Greeks to 21st century life.

LIB 214 The Human Will and Nature 3-3-0

The ecological crisis facing humanity today is not, German philosopher Martin Heidegger would claim, merely the product of recent economic productivity, nor can we solve it with yet more technology. It is the product of a "will to mastery" that has obsessed our culture, he claims, since the Greeks. Heidegger ominously warns that this "will to mastery becomes all the more urgent the more technology threatens to slip from human control." This course will explore ideas for and against claims like those of Heidegger and in so doing address the global ecological turning point we appear to face.

LIB 215 Ecstasy and Excess 3-3-0

"Joy is the most comprehensive mind…and it is from the summits of joy alone that each one will see the path to take." American philosopher Alphonso Lingis claims here that humanity is the "ecstatic" species. In Greek the ek-static means literally to be outside, even beyond oneself—to transcend what and who one is. In the last few hundred years artists, writers, philosophers and others have claimed that ecstasy and excess are not merely temporary states, but the very condition of human life. This course will explore a variety of theories, from the biological to the philosophical and the virtual, inspired by the idea that there is no "human nature" that we can't exceed.

LIB 216/REL 208 The Divine and Ultimate Concern 3-3-0

The divine is that about which we are "ultimately concerned"—so said theologian Paul Tillich of Union Seminary in New York. Is this just a last-ditch attempt to salvage faith and spirituality in the midst of charges that religion is, at best, an "opiate of the masses" (Marx) and, at worst, "patently infantile" (Freud)? Or again, is the role of religion being taken over by its long time sister in spirit—art? This course will explore the troubled and passionate place of religious experience and the aesthetic in Western civilization.

LIB 217 Space, Place & the Human Experience 3-3-0

Our environment has a powerful impact on our experiences and perceptions. In this course, the relationship between our bodies and the spaces they occupy will be examined. The difference between space and place will be explored, along with particular notions of each, including: empire and nation, home and homelessness, sacred spaces and places, liminal spaces, and mythical places. Through the examination of key texts, students will become familiar with essential notions of space and place, and the ways in which specific communities have engaged these notions in the formation of identities, both individually and collectively.

4. Graduating Year Seminar

LIB 300ab Interdisciplinary Seminar 3-3-0

A team-taught seminar which will explore a selected theme of interdisciplinary interest.

5. Language Requirement

Liberal Arts Major are required to take three courses in any single language (ancient or modern) and must have begun their language requirements by their second year.

Note: If Liberal Arts Majors opt to do their second major in Italian, German or Japanese, part of their course of study will take place in Italy, Germany, Austria or Japan. Liberal Arts Majors whose second Major is in Italian or German are also encouraged to take one of two international immersion courses in Venice or Vienna.

6. Social Sciences Requirement

Any two Social Science courses (six credits).

7. Natural Sciences/Mathematics Requirement

At least one course (3 credits) from Natural Sciences or Mathematics.

8. Humanities Breadth/Depth Requirements

Liberal Arts Majors are required to take 6 credits from two of the following three departments: Drama,English, Music.

Liberal Arts Majors are also required to take two 300- level courses in the Humanities (not including LIB courses).

The Liberal Arts Honours Degree

Liberal Arts students may opt to complete an Honours Degree. In addition to fulfilling the normal requirements for a Major an Honours student must register in the fall of his or her final year for LIB 400, the requirement of which is to write a supervised, interdisciplinary Honours thesis. In keeping with Divisional regulations, a 70% average, calculated on the best 60 credits in the program, would be necessary for graduation with an Honours degree.

LIB 400f Honours Thesis 6-3-0

An individual research project of an interdisciplinary nature, chosen by the student in consultation with one of the members of the Program Committee, who shall act as the thesis supervisor. The thesis will be assessed by a committee composed of the thesis supervisor and one other member of faculty.

Other Liberal Arts Courses

Liberal Arts Thematic Seminar Courses

These courses are in-depth, interdisciplinary seminar courses on topics relevant to the program of study of Liberal Arts majors. Instructors and topics are determined each year.

LIB 270 /ITA 270 Venice And Its Mystique 3-3-1*

"As the Twentieth century draws to a close, no one knows quite what to expect, if anything, of the future. There is a strong need for magic, for a place that is outside of time, for a postponement of reality. For Venice." —Gore Vidal

Once the crossroad of western and eastern civilizations, over the centuries Venice has been seen as the symbol of freedom and cosmopolitanism, but also as the city where artistic and cultural production can thrive. The surreal setting of Venice and the lushness of its artifacts have become emblematic of the cultural production of Western civilization, creating a unique landscape of unsurpassed aesthetic richness. It is in this exceptional urban scenery,that blends together water, art and culture, that this three week course will take place. This language and culture course will provide students with a basic knowledge of Italian and familiarize them with the history and culture of one of the few cities that can fulfill our "need for magic," the

"Serenissima." This course will be taught in English. Students who wish to count the course for Italian credit will submit their assignments in Italian and participate in certain additional activities in Italian.

LIB 370 Social Movements and Social Change in Brazil 3-3-0
This is an intensive spring course that takes place primarily in Brazil. It consists of the study of Brazilian social movements, politics and culture in general and, in particular, the Movement of Landless Rural Workers (Movimento de Trabalhadores Rurais Sem Terra do Brasil, or MST). The course will include studies of and meetings with Brazilian social movements, labour unions, political parties, universities and other actors on the political scene in Brazil. The period in Brazil would be preceded and followed by research and essay assignments. The language of instruction is English, and all meetings in Brazil are translated.

LIB 384 / ITA 384 Dante's Divine Comedy 3-3-1
According to Dante Alighieri, none of us can salve the wound in our souls without undertaking our own pilgrimage to hell, without purging our sins and without letting go of ourselves such as to experience ecstatic union with the foundations of all reality. This is perhaps what James Joyce meant when he said that Dante is his "spiritual food" and that reading Dante is like "looking at the sun." This course will unfold some of the philosophical, poetic, religious, political and historical richness of Dante's allegorical masterpiece and lead each student on a personal journey through Inferno, Purgatorio and Paradiso.

LIB 385 / ITA 385 Giovanni Boccaccio's Decameron 3-3-0
One of the most enjoyable, beloved and imitated literary works of all time, the Decameron by Giovanni Boccaccio (1313-1375) is among the great texts whose influence transcends the written word and expands into almost every area of the Western cultural tradition. A book on love according to Boccaccio himself, this masterpiece is in reality an audacious and sophisticated human comedy that brings to the reader the richness of life. Through an in-depth reading of the short stories that comprise the work, this course will explore the philosophical, historical, political, social and gender related issues that arise from this literary masterpiece. We will also examine the enormous influence this test had on future visual and performative arts, literature and music

LIB 386 Montaigne's Essays and Early Modern Humanities 3-3-0
This course is an exploration of Michel Montaigne's Essays, published in three volumes between 1580-1588. Framed by his celebrated phrase << What do I know? >> (Que sais-je?), these writings examine the human condition with the fresh outlook of early modern skepticism. As Montaigne searches for moral examples that can assist us in the conduct of our lives, he gives surprising new inflexions to traditional wisdom on topics such as love, friendship, education, conversation, health and dying.

LIB 390ab / GER 390ab (De)constructing Identity in Vienna: Disclosing Discontent in Austrian Literature 3-3-1
In this course, we will examine how intellectuals and artists associated with Austria's capital have been, ever since the advent of Freudian psychoanalysis, enlightened witnesses to their nation's identity construction. Our interdisciplinary approach will enable us to investigate our topic from a variety of angles, focusing on two periods of Austrian history, namely the period around 1900 and the aftermaths of WWII. Starting with a brief introduction not only to Freud's psychoanalytical theories but also to his sociological observations (Civilization and its Discontents), we will look at how literature (Schnitzler, Hofmannsthal, Zweig) and visual arts (Klimt, Schiele, Kokoschka), in the Vienna of 1900, portrayed the individual's unconscious desires and torments. We will then turn to the aftermaths of WWII and study literary texts (Bachmann, Bernhard, Jelinek) and films (Haneke) which engage with Austrian history and culture, with a nation's repressed feelings of anger and guilt. A portion of this course may take place in Vienna – for museum and monument visits, literary walks, and cultural immersion. Classes will be conducted in English. Students in a German Studies program will submit their written assignments in German and will attend a discussion hour in German on alternating weeks.
Prerequisites: None. However, students who wish to have this course counted for German Studies program credit must have already completed GER 202 and GER 204, and will complete various components of the course in German as stipulated in course description. Otherwise, the course will be counted as a Liberal Arts/free elective course.

Program Chair:
Jenn Cianca, Liberal Arts and Classics

Program Committee:
Cristian Berco, Department of History
Jamie Crooks, Department of Philosophy
Don Dombowsky, Department of Philosophy
Jack Eby, Department of Music
Bruce Gilbert, Department of Liberal Arts and Philosophy
Rebecca Harries, Department of Drama
Jean Klucinskas, Liberal Arts
Claude Lacroix, Art History
Daniel Miller, Department of Religion
Dale Stout, Department of Psychology
Catherine Tracy, Department of Classics

Engineering and Liberal Arts Program

The Engineering and Liberal Arts Program is the result of close cooperation between Bishop's University and the Université de Sherbrooke. This exclusive, double-degree program leads simultaneously to two Bachelor's degrees: a B.A. Liberal Arts, from Bishop's University (delivered in English), and a B.Ing. (either Civil or Chemical Engineering), from the Université de Sherbrooke (delivered in French). Students in this program will study at both universities, in both of Canada's official languages, while benefiting from two unique university cultures.

This innovative joint program is unique in Canada and will produce a new generation of leaders for Québec and Canadian industrial and public life —- bilingual graduates with superb technical expertise coupled with a solid general education. The program trains engineers who will be culturally grounded, critically minded and capable of effective communication in complex situations. Graduates will be professional engineers possessing a firm grounding in political and social issues, with the capability of integrating engineering practice into a broad cultural and historical perspective.

The program is part of a cooperative system that alternates study semesters on campus with paid engineering work internships in the industrial or public sectors. French or English language upgrading is available for students who require it. The normal length of this dual-degree program is four academic years and one semester for students possessing the appropriate CEGEP D.E.C., with an extra year for those entering from high school systems in the rest of Canada (see the schedule below)

Entrance Requirements

Students enter the Engineering and Liberal Arts dual-degree program in one of two ways depending on their high school or college diplomas. In both cases, only students of the highest academic standing will be admitted, as admission is strictly limited. Candidates will normally possess strong linguistic skills in both official languages.

Candidates applying from the province of Québec must have a Québec college diploma (D.E.C.) in pure and applied sciences. These candidates submit their applications to the Faculty of Engineering at the Université de Sherbrooke, choosing either the Department of Civil Engineering or the Department of Chemical

Engineering. Upon admission, the first year consists of two academic semesters at the Université de Sherbrooke, followed by a paid summer work internship in engineering.

Candidates applying with high-school diplomas from provinces other than Québec (or from the U.S.A. or elsewhere) must submit their applications to Bishop's University. Upon admission, the first year consists of two general science semesters spent entirely at Bishop's University, in English. In both the fall and winter semester these students must register in 18 course credits and 3 co-requisite laboratory credits, (for a total of 42 Bishop's credits) as follows:

	BIO 196	Cell and Molecular Biology
	CHM 191	General Chemistry I
	+ CHL 191 (corequisite lab)	
Fall	PHY 191	Introductory Physics I (Mechanics)
	+ PHL 191 (corequisite lab)	
	MAT 191	Enriched Calculus I
	MLA 116	Effective Writing for Engineers
	CHM 192	General Chemistry II
	+ CHL 192 (corequisite lab)	
	PHY 192	Introductory Physics II (Electricity and Magnetism)
Winter	PHY 206	Waves and Optics
	+ PHY 206 (corequisite lab)	
	MAT 192	Enriched Calculus II
	Elective Course (three credits from courses in English, History, Classical Studies, Philosophy, Religion or Liberal Arts)	

The summer following this first academic year can be spent in upgrading French language skills if required.

Students can receive credit for Bishop's general science courses after completion of AP (Advanced Placement) examinations. A minimum score of 4 is required:

Biology:	credit for BIO 196
Chemistry:	credit for CHM 191 / CHL 191 and CHM 192 / CHL 192
Mathematics BC:	credit for MAT 191 and MAT 192
Physics C-Mechanics:	credit for PHY 191 / PHL 191
Physics C-Electricity:	credit for PHY 192 / PHL 192.

Entry into the second year for students from outside of Quebec is contingent on achieving a 70% cumulative average in courses taken during the general science year. Following the general science year, all students in the Engineering and Liberal Arts dual-degree program embark on the following sequence of alternating semesters at the Université de Sherbrooke (S), semesters at Bishop's University (B) and paid work internships (W):

1st Year	FALL	WINTER	SUMMER
	S1	S2	W1
2nd Year	FALL	WINTER	SUMMER
	S3	B1	S4
3rd Year	FALL	WINTER	SUMMER
	W2	S5	S6
4th Year	FALL	WINTER	SUMMER
	W3	S7	W4
5th Year	FALL		
	S8		

Included in the above schedule are two blocks of courses which must be completed at Bishop's University:

BLOCK A: *(21 to 33 credits)*

During the appropriate academic semesters at the Université de Sherbrooke (S1–S8), students must register in specified and elective credits to be taken at Bishop's. Thus in several of the engineering academic semesters, students will replace one or two of the regular engineering courses at Université de Sherbrooke, to enroll in replacement and elective courses at Bishop's University, as described below

For students in Chemical Engineering, the following twelve credits must be taken at Bishop's: CHM 111 Organic Chemistry, MAT 310 Ordinary Differential Equations, ESG 266 Environmental Policy, and BMG 214 Creating a Business. These courses replace the equivalent courses in the regular engineering program at the Université de Sherbrooke: GCH 111, GIN 110, GCH 532, and INS 124. For students in Civil Engineering, twelve specified credits must be taken at Bishop's: MAT 310 Ordinary Differential Equations, ESG 266 Environmental Policy, and BMG 214 Creating a Business. These courses replace GIN 110, GCH 532, INS 124, and GCI 635 in the regular engineering program at the Université de Sherbrooke.

Both Civil and Chemical Engineering students must register in a further twelve credits of elective courses at Bishop's, chosen from the course offerings of the Division of Humanities or Social Sciences. These courses count towards the B.A. in Liberal Arts and one of these must be at the 300 level.

Finally, both students in Civil and Chemical Engineering may register in up to twelve additional elective credits from Bishop's courses which are recognized equivalents of Engineering courses at Sherbrooke. For students in Civil Engineering this list includes ESG 346 Urban Planning and ESG 354 Canadian Environmental Planning and Management.

BLOCK B: *(18 credits)*

During the winter of the second year of studies (or third year for out-of-province students) a complete semester of academic study will be taken at Bishop's University. Students must register in eighteen credits as follows:

Lib 21x - the course in the Lib 210-217 rotation being offered

Humanities Elective - one course from Classical Studies, History Philosophy or Religion

Literature Elective - one literature course from English, Études Françaises et Québécoises or Modern Languages

Fine and Performing Arts Elective - one course from Drama, Music or Fine Arts

Social Sciences Electives - two (200 level or higher) courses from Sociology, Psychology, Political Studies or Environmental Studies and Geography

One of the three electives in Humanities, Literature or Fine and Performing Arts must be at the 300 level. Students should be aware that required prerequisite courses may need to be completed prior to the selected course(s) above.

For more information about this program, please contact the academic coordinators for this program:

Dr. Jenn Cianca, Liberal Arts Program,
Bishop's University, Sherbrooke, QC
819-822-9600 ext. 2526;
jcianca@ubishops.ca

Prof. Jean Proulx
Directeur du département de génie civil
Local C2-2002
819-821-8000, poste 63224
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MODERN LANGUAGES, LITERATURES and CULTURES

The Department of Modern Languages, Literatures and Cultures offers an Honours program in Hispanic Studies, Majors in Modern Languages and Hispanic Studies, International Majors in German and in Italian Studies, as well as Concentrations/Minors in English Language Studies, German Studies, Hispanic Studies, Italian Studies, and Japanese Studies (international concentration).

The **Major in Modern Languages** (66 credits) comprises: MLA101 (3 credits) and MLA102 (3 credits) and 60 credits equally divided (30/30) between two languages which will be specified on the student's final transcript. The languages are English, French (offered by the Département des études françaises et québécoises), German, Italian, Japanese and Spanish. The requirements and courses for the Major in Modern Languages are listed under each specific language.

**** Please note:***

1) MLA 101 and MLA 102 will normally be taken in the first year of studies. The following students may request an exemption from MLA 101 and 102: students with an Honours in Hispanic Studies; students taking the Major in Hispanic Studies on a part-time basis; students with a Major in Modern Languages or Hispanic Studies and a Major in another discipline. ***Other students may request an exemption if there is not sufficient space in their curricula.***

2) Students registered in the Major in Modern Languages must declare the two languages in which they are concentrating by the end of their first year.

3) Students enrolled in the Major in Modern Languages, the International Major in German Studies, the International Major in Italian Studies, or the Major in Hispanic Studies must successfully complete the Information Retrieval and Evaluation Skills for the Humanities (Lab) (ILT 102b). This one-credit laboratory course must be taken in conjunction with a research-based course (normally second year course) in the Department of Modern Languages, Literatures, and Cultures.

4) Students enrolled in a Minor program in the Department of Modern Languages, Literatures, and Cultures are strongly recommended to take the Information Literacy laboratory course.

5) Unless otherwise stated, all courses will be taught in the language specified in the course title.

Adjunct Concentration in Modern Languages

Adjunct Concentration in Modern Languages: A 10-course concentration in a single language: German Studies or Italian Studies, Hispanic Studies, Italian Studies, Japanese Studies (International), French (intermediate or advanced levels). This is effectively one half of a two-language Major in Modern Languages with the typical 10-course concentration. The specifications for this adjunct concentration are identical to those currently specified in the different language sections in the academic calendar.

The **Certificate in Modern Languages** is designed to provide part-time students with a working knowledge of at least two of the modern languages taught at Bishop's University: English, French, German, Italian, Japanese, and/or Spanish.

Students must complete a total of 10 courses (30 credits). They choose two main languages of concentration and complete at least 12 credits in each. The 6 remaining credits may be taken in either of these two main languages, or in one other language. Please consult course offerings under individual languages within the Department of Modern Languages, Literatures, and Cultures, the Department of English and the Département des études françaises et québécoises.

Credits obtained in the certificate program may be applied towards a degree program in Modern Languages; however, students may not be enrolled simultaneously in a degree program and in the Certificate in Modern Languages.

Admission requirements: *See Regulations for Certificate Programs.*

MLA Courses

MLA (Modern Languages) courses are offered by the Department of Modern Languages, Literatures and Cultures through the collaboration of the different language sections. These courses may be taken as free electives or as part of the Humanities Divisional Requirement.

MLA 101 Issues in Language and Linguistics 3-3-0
Does language actually shape the world that surrounds us? Are there definitive language universals? Are all languages of equal complexity? This course will provide students with an overview of issues in the study of languages. It will introduce them to basic concepts in linguistics, familiarize them with the main components of language and common pursuits of linguists, and expose them to some long-standing debates in the field.
No prerequisite

MLA 102 Travelling Across Cultures: Intercultural Approaches to Literatures and Cultures 3-3-0
The aims of this course are twofold: first, it aims at introducing students to the exploration of the topic of intercultural encounters and exchanges as articulated in contemporary artistic productions ranging from short story to graphic novel, travelogue to film; and second, it aims at providing students with theoretical tools for textual analysis. Revolving around questions of national, ethnic, religious, gender boundaries, interpretative readings will ultimately introduce students to notions of identity and alterity.
No prerequisite

English Language Studies

The English Language Section of the Modern Languages Department offers courses in composition, oral expression, and English as a second language. All courses have in common the aim of assisting students in all disciplines to improve their understanding of English language and communication.

English Composition

General Information

Intended for students who have already demonstrated proficiency in English, courses designated ELA (English Language) may be taken as free electives in any program. ELA 116: Effective Writing (or, alternatively, a course in English literature) is recommended for first-year students in the Division of Natural Sciences and Mathematics, but ELA 116 is open to all students who wish to improve their written communication.

ELA 116 may be taken by **advanced** level ESL students as part of a Major in Modern Languages, a Minor in English Language Studies, or a Certificate of Proficiency in English as a Second Language.

Please note that ELA 116 may not be counted towards an honours, major, or minor in English Literature.

Course descriptions

ELA 116ab Effective Writing 3-3-0

This course is designed for students who have already achieved a basic competence in writing. Students will read a variety of texts of different genres so as to become familiar with various types of academic and professional discourse. Students will be encouraged to analyse writing strategies, content, organization, and style with a view to improving their overall writing abilities. Students will also be made aware of different writing situations, particularly those that may arise in their own disciplines.

Prerequisite: Students are normally expected to have achieved a result of at least "5-" on the EWP Exemption Credit Examination before they attempt ELA 116. Students who need a course in basic writing are encouraged to register in the course English Writing Proficiency (EWP 099).

English as a Second Language

English as a second language courses at the 100 and 200 level may be taken as free electives in any program, or they may be taken towards a Major in Modern Languages (English Language Studies Component), a Minor in English Language Studies, or a Certificate of Proficiency in English as a Second Language.

Major in Modern Languages: English Language Studies Component and Minor in English Language Studies

Minor in English Language Studies

In order to be accepted into these programs, students must have attained at least an intermediate level of competence in English. This level will be established according to the following criteria:

1) A result of over 40% on the Bishop's University E.S.L. placement test.

   and

2) Successful completion of two CEGEP English Courses at the 604-100 level (normally 604-101 & 604-102).

   or

3) A result of 480/157-525/206 on the TOEFL test.

   or

4) A result of 575-690 on the TOEIC test.

   or

5) A result of 4.5-5.5 on the IELTS test.

Students may also enter the Major/Minor Programs at the advanced level, which will be defined according to the following criteria:

1) A result of over 65% on the Bishop's University ESL placement test.

   and

2) Successful completion of two Cegep English courses at the 604-100 level, including Anglais 604-102 and 604-103, with an average of over 75% in each.

   or

3) A result of over 525/206 on the TOEFL test.

   or

4) A result of over 690 on the TOEIC test.

   or

5) A result of over 5.5 on the IELTS test.

These criteria will be subject to periodic revision by the Modern Languages Department. Please inquire at the Admissions Office for current requirements.

In all cases, the University's standards will prevail. The University reserves the right to deny admission into these courses and programs to students who are already proficient in English. The University also reserves the right to reassign students to different levels/courses/ programs should in-class performance be inappropriate for the level of instruction. Students who have completed a university program with English as the language of instruction will not normally be eligible for English Language Studies programs or ESL courses.

Course Groupings for Modern Languages Major (English Language Component) and Minor in English Language

Group I: Core Courses

ESL 103: Intermediate English as a Second Language I
ESL 104: Intermediate English as a Second Language II
ESL 110: Introduction to English for Academic Purposes I
ESL 111: Introduction to English for Academic Purposes II
ESL 210: Advanced Writing and Text Analysis
ESL 211: Advanced Communicative Skills I

Group II: Special Purposes/Special Focus Courses

ESL 121: English Grammar I: Tense and Idiom
ESL 122: English Grammar II: Tense/Stylistic and Text Analysis
ESL 125: English Phonetics and Pronunciation
ESL 126: Oral Discourse I
ESL 127: Oral Discourse II
ESL 131: Business English
ESL 212: Advanced Communicative Skills II

Group III: Writing, Literature, Translation Courses
ELA 116: Effective Writing
ENG 104: Approaches to Short Fiction
ENG 105: Approaches to Poetry
ENG 108: The American Short Story
ENG 110: English Writers of Quebec
ENG 111: Canadian Short Story
ENG 202: History of the English Language
FRA 301: Stylistique et traduction I
FRA 302: Stylistique et traduction II

NB: *Any English Literature (ENG) course may count towards the Group III requirements, although we recommend first-year courses, in particular ENG 104, ENG 108, ENG 110, ENG 111. With the permission of the Modern Languages Department, very advanced ESL students may substitute ENG courses for one or more of their Group II requirements.*

Major in Modern Languages: English Language Studies Component Requirements

All students undertaking the English Language Studies Component of the Major in Modern Languages must complete 30 credits from course groups I, II, and III.

Intermediate Level Students:

Students entering at the intermediate level must complete four of the courses (12 credits) in Group I including ESL 210 and ESL 211; three courses (9 credits) in Group II; and three courses (9 credits) in Group III, including ELA 116: Effective Writing.

Advanced Level Students:

Students entering at the advanced level must complete ESL 210 and ESL 211 or ESL 212 (6 credits) in Group I; four courses (12 credits) from Group II; and four courses (12 credits) from Group III, including ELA 116: Effective Writing. NB: FRA 301 or 302 may be taken only by those students who are combining the English Language Studies and the French components of the Major in Modern Languages, and these courses may be counted only once towards the Major.

ELA–ENG Concentrations

Advanced level students may choose a modified concentration offered by the English Department, in Literature, Cultural and Media Studies, Film Studies, or Popular narrative. Students must take ESL 210, 211, and ELA 116, then two English foundation courses and then five 200 or 300 level English courses in the concentration (including some specific courses where applicable). If students already possess strong writing skills in English they may be excused from the ESL/ELA component and take the regular stream recommendations.

Please Note: *Students are not permitted to double-count courses from other Language Sections for the following concentrations.*

Literature Concentration

ESL 210, ESL 211, ELA 116; two foundation year courses (ENG 106 and one of ENG 105, ENG 112, or ENG 113); five 200 or 300 level ENG courses with a focus on Literature.

Cultural and Media Studies

ESL 210, ESL 211, ELA 116; two foundation year courses (ENG 102, and one of ENG 105, ENG 112, or ENG 113); ENG 235 (Cultural Studies: History Theory and Practice); four courses chosen from the recommended Cultural and Media Studies courses (see English Department)

Film Studies

ESL 210, ESL 211, ELA 116; two foundation year courses (ENG 102, and one of ENG 105, ENG 112, or ENG 113); ENG 235, ENG 289, ENG 291 and DRA 170 (12) credits; one other ENG (film) course.

Popular Narrative

ESL 210, ESL 211, ELA 116; two foundation year courses (ENG 102, and one of ENG 105, ENG 112, or ENG 113); five courses chosen from DRA 170, DRA 172, ENG 212, ENG 217, ENG 218, ENG 219, ENG 220, ENG 235, ENG 278, ENG 280, ENG 281, ENG 282, ENG 283, ENG 284, ENG 285, ENG 286, ENG 287, ENG 288, 289, ENG 290, ENG 291, ENG 292, ENG 293, ENG 294, ENG 296, ENG 297, ENG 298, ENG 359, ENG 375, ENG 381, ENG 382.

Minor in English Language Studies

Requirements

Students pursuing a Minor in English Language Studies must complete either 30 credits (if they enter at the intermediate level) or 24 credits (if they enter at the advanced level) according to the following stipulations.

Intermediate Level Students:

Students entering at the intermediate level must take four of the core courses (12 credits) in Group I including ESL 210 and ESL 211; (NB: Results of over 65% must be achieved in ESL 103, ESL 104, ESL 110 or ESL 111 before students may take ESL 210 and ESL 211).

Advanced Level Students:

Students entering at the advanced level must take ESL 210 and ESL 211 (6 credits) in Group I.

All students must complete four courses (12 credits) from Group II and two courses (6 credits) from Group III, including ELA 116: Effective Writing. (NB: For other courses in group III, permission may be required from the Chair of the appropriate department).

Certificate of Proficiency in English as a Second Language/Intensive English Language Studies

The Certificate of Proficiency in English as a Second Language may be pursued part- or full-time in the English Language Studies program and it comprises a sequence of courses in English as a Second Language. English Language and Composition, and/or English Literature.

Students who complete the Certificate will have attained a level at which they are capable of taking university courses in English, in addition to being able to use English comfortably on the job and in their leisure activities.

Admissions requirements:

Students at all levels may register for the certificate program; however, students must normally have reached an intermediate level of competence before being admitted to full-time status.

Please note: *Students entering certificate/intensive studies at the beginning or intermediate level may not be able to complete all program requirements in two regular sessions.*

Certificate Requirements

10 courses according to the following regulations and a cumulative average of 65% in courses taken towards the Certificate.

Group I

The following six courses are required (depending upon the level of entry into the program):

ESL 70ab	**English Second Language: Beginners I**	**3-3-0 EXT**
ESL 102ab	**Beginners English as a Second Language II**	**3-3-0**
ESL 103ab	**Intermediate English as a Second Language I**	**3-3-0**
ESL 104ab	**Intermediate English as a Second Language II**	**3-3-0**

Note: *ESL 110 and ESL 111 (Introduction to English for Academic Purposes I and II) may be substituted for ESL 103 and ESL 104.*

ESL 210	**Advanced Writing and Text Analysis**	**3-3-0**
ESL 211	**Advanced Communicative Skills I**	**3-3-0**

Following the result obtained in the Bishop's University ESL placement test, students may be exempted from some or all of the following courses: ESL 070ab, ESL 102ab, ESL 103ab, ESL 104ab. To replace these exemptions, students may choose courses from group III.

All students in the Program must complete ESL 210 and ESL 211.

Group II

A minimum of three courses **must be chosen from the following:**

ESL 121	**English Grammar I: Tense and Idiom**	**3-3-0**
ESL 122	**English Grammar II: Tense/Stylistic and Text Analysis**	**3-3-0**
ESL 125	**English Phonetics and Pronunciation**	**3-3-0**
ESL 126	**Oral Discourse I**	**3-3-0**
ESL 127	**Oral Discourse II**	**3-3-0**
ESL 131	**Business English**	**3-3-0**
ESL 212	**Advanced Communicative Skills II**	**3-3-0**

Group III

At least one course must be chosen from the following:

ELA 116	**Effective Writing**	**3-3-0**
ELA 201	**Applied Communications and Rhetoric**	**3-3-0**
ELA 202	**Speech**	**3-3-0**

Any course with an ENG code.

English as a Second Language: Course Descriptions

Extra-Degree Credit Course

The following course is offered through the Office of Continuing Education in the evening and during the summer for extra-degree credit. **THIS COURSE MAY NOT BE COUNTED TOWARDS DEGREE REQUIREMENTS.**

ESL 70ab Beginners I 3-3-0 (extra-degree credit)
Students entering this level have had a limited exposure to the language and have little or no ability to communicate. The purpose of the course is to provide students with a knowledge of the basic sounds and structures of the language along with a confidence which will permit them to begin to have meaningful exchanges in the English-speaking world. Through various communicative activities and exercises in grammar and pronunciation, students develop basic listening and speaking skills. At this level, reading and writing are used primarily to assist in the acquisition of the structures of the language. Upon completion of this course students should be able to understand and respond to communication of a simple, specific nature.
Entry level: 0% to 28% on the placement test

Full-Credit ESL Courses

The following courses are offered both by the Office of Continuing Education (in the evening, summer and in various intensive programs) and by the Department of Modern Languages, Literatures, and Cultures (English Language Section) in the regular day programs.

ESL 102ab Beginners English as a Second Language II 3-3-0
This course is intended for students who have already been exposed to the language, have a rudimentary understanding of its sounds and structures, and are able to communicate basic messages. The emphasis is on understanding and speaking, while students begin to participate actively in communication exercises and activities. Students are also introduced to simple reading and writing activities. Upon completion of this course, students should be able to function in a variety of real-life situations, and they should have a good knowledge of the basic structures of the language.
Prerequisites: 29% to 40% on the Bishop's ESL placement test or 65% or over in ESL 070.

ESL 103ab Intermediate English as a Second Language I 3-3-0
This course is for students who are able to communicate yet need additional exposure to the basic structures and functions of the language. Students participate in speaking, listening, reading, and writing activities which demand increasing independence and concentration. Upon completion of this level, students should be able to produce simple, clear written texts and convey a desired oral message in a variety of social, occupational, and educational contexts. They should also have developed an awareness of some of the more complicated structures of the language.
Prerequisites: 41%-52% on the placement test or 65% or over in ESL 102
Antirequisite: ESL 110ab

ESL 104ab Intermediate English as a Second Language II 3-3-0
This course is for students who are able to communicate with confidence in a variety of situations yet wish to improve their knowledge of and proficiency in the more complicated structures and functions of the language. Basic structures are reviewed at this level, but the main emphasis is on introducing students to more unusual grammatical and idiomatic structures and to more complex tasks and materials. Students are exposed to a greater variety of reading sources and are required to write texts with increasing accuracy. Upon completion of this level students should be able to engage in extended discourse in a variety of social, occupational, and educational contexts.
Prerequisites: 53%-65% on the placement test or 65% or over in ESL 103
Antirequisite: ESL 111ab

ESL 110ab Introduction to English for Academic Purposes I 3-3-0
This is a broadly focused course designed to familiarize students with the varieties of English that they will encounter in an academic milieu, and give practice in the skills that are essential to this milieu: comprehending lectures, reading texts of varying length and complexity, note-taking, summarizing, paraphrasing, presenting brief seminars. In addition, students will write and revise short texts with the aim of improving their command of grammar and vocabulary.
Entry level: 41%-52% on the placement test.
Antirequisite: ESL 103ab

ESL 111ab Introduction to English for Academic Purposes II 3-3-0
This course is a continuation of Introduction to English for Academic Purposes I. Students will continue to be exposed to a wide variety of materials and will continue to improve in the four main skill areas: listening, speaking, reading, and writing. However, the emphasis at this level will be placed on activities of increasing complexity which require a greater degree of autonomy.
Pre- or corequisites: 53%-65% on the placement test, 65% in ESL 110ab, may be taken concurrently with ESL 110ab.
Antirequisite: ESL 104ab

The passing grade for these courses is 50%; however, students will not be permitted to take advanced core courses until they have demonstrated adequate ability through achieving 65% or over in at least two 100-level ESL courses.

ESL 121ab English Grammar: Tense and Idiom 3-3-0
This course provides a comprehensive review of the basic tense systems in English, while focusing on grammar at the phrase and sentence level. Presentation of grammatical material will be contextualized and reinforced by oral and written exercises. Students will also learn phrasal verbs and various idiomatic features of the language (prepositions, gerund and infinitive collocations, article use).
Prerequisite: Over 40% on placement test

ESL 122ab Advanced English Grammar: Tense, Stylistic and Text Analysis 3-3-0
This course provides an examination of more complex aspects of English grammar (particularly tense), and the features of the language which contribute to text coherence. In addition, students will develop an understanding of the factors that influence style and structure in written texts, and register in spoken texts. They will also learn to employ different reading strategies to suit various texts and rhetorical situations.
Prerequisite: Over 40% on placement test

ESL 125ab English Phonetics and Pronunciation 3-3-0
This course is designed to provide students with an in-depth knowledge of the stress, rhythm and intonation patterns of English. In doing so, it will assist students in their understanding of variations in formal and informal spoken English, and in improving the accuracy of their spoken language. Students will learn the International Phonetic Alphabet.
Prerequisite: Over 40% on placement test

ESL 126ab Oral Discourse I 3-3-0
In this course students will encounter different types of oral discourse and learn the organizational and presentation strategies necessary for effective oral communication. Although some emphasis will be placed on oral comprehension, most of the activities will provide students with practice in direct address before a group with special emphasis on effective organization of ideas and clear delivery.
Prerequisite: Over 40% on placement test

ESL 127ab Oral Discourse II 3-3-0
This course continues to focus on the objectives of Oral Discourse I. However, at this level students will be exposed to texts of greater complexity, and there will be an increasing emphasis on more demanding rhetorical situations. Students will analyse speeches, engage in debates and impromptu and extemporaneous presentations. Students will also carry out research on current issues and engage in related discussions.
Prerequisite: Over 40% on placement test

ESL 131ab Business English 3-3-0
This course will focus on improving business communication skills. Objectives will include the effective writing of e-mail correspondence, memos, business letters, and reports; effective oral communication in various settings on the telephone, in meetings, in debates and discussions. Students will also encounter videos, readings and discussions dealing with topics such as customer services, leadership, stress management, sexual harassment.
Prerequisite: Over 40% on placement test

ESL 200ab Supplementary Advanced Writing and Text Analysis 3-3-0
This course is intended for students who have already studied at the advanced level yet need to achieve a more thorough mastery of the required competencies. Students will read a variety of texts from popular and academic sources and analyse them for grammar, structure, and rhetorical strategies. Students will also learn the conventions of the academic essay and the characteristics of English style and discourse. Objectives are the same as for ESL 210 (Advanced Writing and Text Analysis), but content is varied for more thorough practice of the necessary skills.

ESL 201ab Supplementary Advanced Communicative Skills I 3-3-0
This course is intended for students who already studied at the advanced level yet need to achieve a more thorough mastery of the required competencies. Students will be exposed to more complex aspects of grammar and communication, more diverse vocabulary and test types, and more challenging listening and reading comprehension activities. There will continue to be a substantial writing component at this level. This may take the form of essays, reports or other assignments, at the discretion of the instructor.
Prerequisites: 66% or over on placement test of 65% or over in ESL 111. Permission of instructor required in all cases.

ESL 210ab Advanced Writing and Text Analysis 3-3-0
This course is intended for students who have reached an advanced level of competence. Students will read a variety of texts from popular and academic sources and analyse them for grammar, structure, and rhetorical strategies. Students will also learn the conventions of the academic essay and the characteristics of English style and discourse.
Prerequisites: 66% or over on placement test; 65% or over in ESL 111a; or permission of instructor

ESL 211ab Advanced Communicative Skills I 3-3-0
This course is intended for students who have reached an advanced level of competence. Emphasis will be placed on familiarizing students with more complex aspects of grammar and communication, increasing vocabulary and knowledge of different text types, and improving listening and reading comprehension. At the end of this level students should be able to function comfortably in any anglophone environment, whether social, professional, or academic. There will continue to be a substantial writing component at this level. This may take the form of essays, reports or other assignments, at the discretion of the instructor.
Prerequisites: 66% or over on placement test; 65% or over in ESL 111; or permission of instructor.

ESL 212 Advanced Communicative Skills II 3-3-0
This course is a continuation of ESL211 in its approach, focusing on further developing the four language skills: speaking, listening, reading and writing. Additional and more complex grammatical forms will be examined, particularly those which are common in everyday speech and writing but which often prove problematic for even advanced speakers of English as a second language. As with ESL211, practice will take place in a communicative environment. The reading and listening content of ESL212 will focus on English Canadian popular culture, with the intention of providing an introduction to this culture for francophone Quebeckers, exchange students and new Canadians. There will continue to be an extensive writing component at this level.

German Studies

Major in Modern Languages

The German Studies Concentration in the Major in Modern Languages consists of 30 credits with a minimum of 12 credits of 300 level courses, including at least 6 credits in 300 level literature and civilization courses.

International Major in German Studies

The International Major in German Studies requires the completion of 42 credits in German and MLA 101 and MLA 102. Among the German credits, 24 must be at the advanced level (equivalent to 300 level) and drawn from courses in language, literature, culture, society, or civilization. With departmental approval, some of these courses may be double-counted for another program concentration.

This program requires the completion of German course credits abroad ; students are thus expected to spend at least one semester at a partner university in Germany. Students should apply for acceptance to this program before going on exchange, and they should consult with the Head of the German Studies Section regarding the selection of appropriate exchange courses.

Minor in German Studies

The Minor in German Studies consists of 24 credits.

Please note:

(1) Majors in Modern Languages with the German Studies Concentrations, adjunct concentration students, and minors in German Studies must take GER 203a Intermediate German: Topics and Texts I concurrently with GER 201a Intermediate German Language I, and GER 204b Intermediate German: Topics and Texts II concurrently with GER 202b Intermediate German Language II.

(2) The German Studies Section offers courses in the following categories: Language, Literature, Cinema and Civilization, and Independent Studies. Third-year course offerings will vary regularly over a three-year cycle.

(3) All Literature, Cinema, and Civilization courses are offered in English.

(4) Independent Study courses are only offered to students with high academic standing.

International Exchange

All Bishop's students wishing to take part in the International Exchange Program to Germany have to provide proof that they possess a level of proficiency in German adequate to the demands of such a program in one of two ways: 1-certification by Bishop's German Studies Section or, 2-an official certification issued by the Goethe Institut called TestDaF (Test Deutsch als Fremdsprache). The German Studies section certifies that a student has an adequate degree of proficiency in German once they have completed 18 credits at our institution if they are beginners without a previous background in German (GER 101, GER 102, GER 201, GER 202, GER 203, and GER 204) [Students who have previously taken German-language courses at the Cegep or High School levels are excused from the first two courses (GER 101, GER 102)] Students who do not wish to take German-language courses at Bishop's can provide proof of their proficiency level in German by producing a document that attests they have successfully passed the TestDaF. In order to qualify for the exchange program, the student has to pass the TestDaF at the B2 (Advanced level), which is the equivalent of the curricular plan at Bishop's. Under no circumstances can the German Studies section certify the level of proficiency of students who have not completed the courses required by its curricular plan.

Language Courses

GER 100ab Introductory German Language I-II: Intensive Course 6-6-2
This course covers the contents of GER 101a and GER 102b in one semester.
No prerequisite

GER 101a Introductory German Language I 3-3-1
This course provides students with a sound basis for learning German as it is used in spoken and written communication today within the context of German-speaking culture. It also familiarizes students with contemporary life and culture in German-speaking countries. Language laboratory exercises are included.
No prerequisite

GER 102b Introductory German Language II 3-3-1
Continuation of GER 101a. This course offers systematic practice in the four language skills of listening, speaking, reading, and writing. It also provides a firm foundation in the basic elements of German grammar. Language laboratory exercises are included.
Prerequisite: GER 101a or equivalent

GER 201a Intermediate German Language I 3-3-1
This course is designed to increase students' ability to function in German. It offers a comprehensive review of German grammar through written and oral assignments. Authentic cultural texts and video activities, as well as the systematic development of vocabulary, help students further develop their communicative skills. Language laboratory exercises are included.
Prerequisite: GER 100ab or GER 102b or equivalent

GER 202b Intermediate German Language II 3-3-1
Continuation of GER 201a. Further emphasis on active vocabulary building and grammar review. Language laboratory exercises are included.
Prerequisite: GER 201a or equivalent

GER 203a Intermediate German: Topics and Texts I 3-3-0
The purpose of this course is to provide students with an authentic context for the assimilation of vocabulary and culture necessary for oral and written communication. Methodology includes the use of dialogues, journalistic and literary texts, video and audio material on specific topics relevant to the German-speaking world.
Prerequisite: GER 100ab or GER 102b or equivalent

GER 204b Intermediate German: Topics and Texts II 3-3-0
Continuation of GER 203a. Further emphasis on written assignments and speaking activities such as small group discussions and oral reports.
Prerequisites: GER 201a and GER 203a or equivalent

GER 301a Advanced German Language: Styles and Structures I 3-3-0
This course provides students with an intensive review of German grammar as well as readings and discussions regarding the culture and literature of German-speaking countries.
Prerequisites: GER 202b and GER 204b or equivalent

GER 302b Advanced German Language: Styles and Structures II 3-3-0
Continuation of GER 301a.
Prerequisite: GER 301a or equivalent

GER 303a Advanced German Language: Topics and Texts I 3-3-0
This course takes an interactive, communicative approach to German, by means of discussion of short films and of cultural and literary texts. There will be a grammar review.
Prerequisites: GER 202b and 204b or equivalent

GER 304b Advanced German Language: Topics and Texts II 3-3-0
Continuation of GER 303a
Prerequisite: GER 303a or equivalent

GER 305a Advanced German Language: Texts and Contexts I 3-3-0
This culture content course takes an interdisciplinary approach to German. Students will progress in the language while engaging with the culture and history of German-speaking countries by means of literary texts and visual arts, films and newspaper articles, songs and cartoons, etc. There will be a grammar review.
Prerequisites: GER 202b and GER 204b or equivalent

GER 306b Advanced German Language: Texts and Contexts II 3-3-0
Continuation of GER 305a.
Prerequisite: GER 305a or equivalent

Literature, Cinema, and Civilization Courses

GER 235ab Introduction to German Literature 3-3-0
This course provides students with an introduction to the major writers and movements of German literature, from the Middle Ages to the end of the 19th century. It will examine a representative selection of German literary masterpieces from various periods and genres.
No prerequisite

GER 250ab German Civilization and Culture 3-3-0
A survey of German civilization from the rise of nationalism and the beginning of the industrial revolution in the 19th century to the re-unified Germany of the 21st century. Students will become acquainted with key developments within German-speaking cultures, including aspects of history, philosophy, literature, music and visual arts.
No prerequisite

GER 320ab German Poetry 3-3-0
This course introduces students to the study of German poetry from the Enlightenment to today. Through a representative selection of poems by the most prominent German poets, students will be familiarized with the various literary movements that have marked the history of German literature. Special attention will be paid to the forms, themes and patterns that characterize German poetry in its different manifestations.
No prerequisite

GER 330ab German Drama 3-3-0
This course introduces students to the development of German-language drama from the Enlightenment to today through an examination of the major works of influential playwrights and dramatic theorists. The themes investigated include religion, revolution, class struggle, socialism, and the Holocaust. Authors may include Lessing, Goethe, Büchner, Hauptmann, Schnitzler, Wedekind, Dürrenmatt, Weiss, and Müller.
No prerequisite

GER 370ab Introduction to German Film 3-3-3
This course provides an overview of the different movements that shaped the history of the German cinema: from expressionism to the new German comedy, from the Oberhausen manifesto to the Defa film industry of the former GDR. The ways in which film and its imagery reflect key features of Germany's recent past and present will be examined and discussed. Prominent directors to be studied may include Murnau, Lang, Staudte, Fassbinder, Wenders, Dörrie, Carow, Wolf, vonTrotta and others.
No prerequisite

GER 371ab East German Cinema: From Rubble Films to Ostalgie 3-3-3
This course explores the history of East German cinema through the films produced by the state-owned studios of the DEFA (Deutsche Film-Aktiengesellschaft) from 1946 to 1992, and focuses on the following issues: the possibilities and limitations of socialist realism; censorship; the pursuit of individual freedom; gender and sexuality. A diversity of film genres will be studied including rubble films (Trümmerfilme), westerns, science fiction, and musicals. Attention will also be drawn to the post-Wende film production from directors who express nostalgia, Ostalgie, for life in the former GDR.
No prerequisite

GER 380ab German Literature and Culture before 1700 3-3-0
This course introduces students to literary masterpieces from the Middle Ages to the Baroque Period. Discussions of poetry, drama, and narrative address not only general questions of historical context and literary form, but also issues specific to the respective epochs. Readings may include works by Straßburg, Aue, von der Vogelweide, Meister Eckhart, Brant, Luther, Fleming, Grimmelshausen, Gryphius, Opitz.
No prerequisite

GER 381ab German Literature and Culture in the Age of Goethe 3-3-0
This course introduces students to the major writers from the Enlightenment to Romanticism in the context of cultural and intellectual history. Readings may include works by Kant, Lessing, Moritz, Goethe, Schiller, Novalis, Hoffmann, the Brothers Grimm.
No prerequisite

GER 382ab Nineteenth-Century German Literature and Culture 3-3-0
This course examines fiction, poetry, and drama of the 19th century within the framework of major historical developments and socio-cultural contexts. Central literary movements to be studied are Young Germany, Realism, and Naturalism. Authors may include Heine, Büchner, Fontane, Storm, Nietzsche, and Hauptmann.
No prerequisite

GER 383ab Twentieth-Century German Literature and Culture I 3-3-0
This course examines influential literary works from fin-de-siècle Vienna to the end of World War II within the framework of major historical events and socio-cultural contexts. Central literary movements to be studied are Impressionism, Decadence, Expressionism, and Exile Literature. Authors may include Schnitzler, Freud, Wedekind, Rilke, T. Mann, Kafka, Trakl, Lasker-Schüler, Seghers and Brecht.
No prerequisite

GER 384ab Twentieth-Century German Literature and Culture II 3-3-0
This course introduces students to fiction, poetry, and drama from the end of World War II to post-Wende Germany viewed within their social and cultural context and against the backdrop of contemporary literary theory. Among the topics to be considered: Vergangenheitsbewältigung, the Holocaust, socialist realism, and post-modernism. Authors may include Böll, Celan, Bachmann, Grass, Kirsch, Wolf, Müller, Jelinek, Heym, Brussig.
No prerequisite

GER 385ab Seminar in Literature 3-3-0
Research and individual projects within an area of German literature centering on a specific period, genre and/or author.
No prerequisite

GER 386ab Women in German Literature and Culture 3-3-0
This course explores the literary and cultural history of women writers, filmmakers and artists of the 20th century in German-speaking countries. A wide variety of literary genres (the short story, the novel, poetry, correspondence, screenplays) as well as themes and motifs (sexuality, gender issues, the influence of the First and Second World Wars, subjectivity, the environment) will be covered.
No prerequisite

GER 387ab German Literature and Intellectual History 3-3-0
This course will explore special topics dealing with the presence of particular political or philosophical ideas, movements, or problems in German literary texts of a variety of genres, from the Enlightenment to the present. Special topics may include: War and Revolution, Narratives of Emancipation, The Problem of Education, and The Death of God, amongst others. We will look at how authors of fiction weave into their work contemporary political or philosophical concerns – these may be the French Revolution, Marxist thought, or Nietzschean philosophy, for example. This examination will also lead us to investigate modes such as irony and satire, issues such as censorship and propaganda, and the role of art in society
No prerequisite

GER 388ab The Self and the Other in German Literature and Culture 3-3-0

This course examines representations of the Self and the Other in various works of German literature, philosophy, music, film, and visual arts, from Romanticism to the present. Our readings and discussions of the selected works will focus on how they (de)construct these binary opposites. We will investigate categories such as gender, class, race, ethnicity, nationality, and religion, amongst others. We will also explore types of relationships between the Self and the Other, such as assimilation, integration, domination, internalization, projection, alienation, dialectics, agonistics, etc. Works will be discussed chronologically, enabling us to assess whether and/or how the discourse on identity and alterity has transformed over time.

No prerequisite

GER 389ab (De) Constructing Memory in Berlin: (Re) writing History in German Literature and Culture 3-3-1

This interdisciplinary course will explore (re)writings of German history by intellectuals and artists associated to Germany's capital, (re)writings which expose the flaws and fallacies of a nation's narrative. We will focus on the Weimar Republic, The Cold War and its aftermaths. Starting with a brief overview of Georg Simmel's sociological depiction of the metropolis, we will then look at how works from Weimar Berlin revealed not only the instability of the nation's founding myths but also the conflicts and contradictions which plagued the Weimar Republic (in literature, Benjamin, Brecht, Döblin; in visual arts, Dix, Grosz, Kirchner). We will then turn to the Cold War and its aftermaths, to examine how memory gets (de)constructed in literary texts and songs (Brussig, Grünbein, Bargeld), films (Wings of Desire, Berlin is in Germany), and architecture (Jewish Museum, Holocaust Memorial, documentary Berlin Babylon). A portion of this course may take place in Berlin – for museum and monument visits, literary walks, and cultural immersion.

No prerequisite

GER 390ab / LIB 390ab (De) constructing Identity in Vienna: Disclosing Discontent in Austrian Literature and Culture 3-3-1

In this course, we will examine how intellectuals and artists associated to Austria's capital have been, ever since the advent of Freudian psychoanalysis, enlightened witnesses to their nation's identity construction. Our interdisciplinary approach will enable us to investigate our topic from a variety of angles, focusing on two periods of Austrian history, namely the period around 1900 and the aftermaths of WWII. Starting with a brief introduction not only to Freud's psychoanalytical theories but also to his sociological observations (Civilization and its Discontents), we will look at how literature (Schnitzler, Hofmannsthal, Zweig) and visual arts (Klimt, Schiele, Kokoschka), in the Vienna of 1900, portrayed the individual's unconscious desires and torments. We will then turn to the aftermaths of WWII and study literary texts (Bachmann, Bernhard, Jelinek) and films (Haneke) which engage with Austrian history and culture, with a nation's repressed feelings of anger and guilt. A portion of this course may take place in Vienna – for museum and monument visits, lieterary walks, and cultural immersion.

No prerequisite

Independent Study Courses

GER 315a Independent Study I 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 316b Independent Study II 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 317a Independent Study III 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 318b Independent Study IV 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

Hispanic Studies

All courses are taught in Spanish and fall into the areas of language, civilization and culture, linguistics, and literature. The Hispanic Studies Section strongly encourages students with a Major in Hispanic Studies to spend an immersion semester abroad (Spain, Argentina, Chile, Mexico, etc.) The following programs are offered: Honours in Hispanic Studies (60 credits), Major in Hispanic Studies (42 credits), Concentration in Hispanic Studies as part of the Major in Modern Languages or adjunct to another major (30 credits), Double Major French/Spanish and Education (24 credits in Hispanic Studies), Minor in Hispanic Studies (24 credits), and Certificate in Hispanic Studies (30 credits).

Please note:

- Students with a Major in Hispanic Studies, a Major in Modern Languages with a concentration in Hispanic Studies and students with a Minor in Hispanic Studies must take SPA 201a concurrently with SPA 203a, and SPA 202b concurrently with SPA 204b.
- Independent Studies courses are offered only to students with high academic standing and in consultation with the professor.
- Students enrolled in either the Major in Modern Languages (Concentration in Hispanic Studies) or Major in Hispanic Studies must successfully complete the Information Literacy Laboratory course (ILT 102ab). This one-credit laboratory course must be taken in conjunction with a research-based course (normally third-year course) in the Department of Modern Languages, Literatures, and Cultures.
- For all programs, standard course requirements are indicated for beginning students. Students who have already attained a degree of competence in Spanish will be required to replace lower level courses with higher level courses in order to complete program requirements
- In addition to their degree requirements, Majors and Minors in the program are strongly encouraged to take the international DELE exams (Diplomas de Español Lengua Extranjera) supervised by the Ministry of Education of Spain and the Instituto Cervantes. These exams test three levels of mastery of the Spanish language: Certificado Inicial, Diploma Básico, Diploma Superior. Examinations are held in May, at Bishop's, which is an official Spanish Language Exam Centre in Quebec.

International Exchange

All Bishop's students wishing to take part in the International Exchange Program in Spanish-speaking countries have to provide proof that they possess a level of proficiency in Spanish adequate to the demands of such a program in one of two ways: (1) certification by Bishop's Hispanic Studies Section or, (2) an official certification issued by the Ministry of Education of Spain called DELE (Diploma deEspañol Lengua extranjera). The Hispanic Studies section certifies that a student has an adequate degree of proficiency in Spanish once they have completed 18 credits at our institution if they are beginners without a previous background in Spanish (SPA 101, SPA 102, SPA 201, SPA 202, SPA 203, and SPA 204). Students who have previously taken Spanish-language courses at the Cegep

or Highschool levels are excused from the first two courses (SPA 101, SPA 102), for a total of 12 credits. Students who do not wish to take Spanish-language courses at Bishop's can provide proof of their proficiency level in Spanish by producing a DELE (Diploma de Español Lengua Extranjera). In order to qualify for the exchange program, the student has to pass the DELE at the B2 (Advanced Level), which is the equivalent of our curricular plan at Bishop's. Under no circumstances can Hispanic Studies certify the level of proficiency of students who have not completed the courses required by the curricular plan of our section.

Honours in Hispanic Studies

The Honours in Hispanic Studies adds 18 credits to a Major in Hispanic Studies for a total of 60 credits:

Required courses:

SPA 443 Advanced Research Methods: Honours Thesis Proposal (3 credits)
SPA 444 Honours Thesis (3 credits)
SPA 435 Directed readings and Research I (3 credits)
SPA 436 Directed readings and Research II (3 credits)

Students must also take an **additional 6 SPA credits at the 300 level** in order to fulfill the 60 credit requirement.

To qualify for the Honours program, students must have a cumulative average of at least 80% in the Hispanic Studies Major program and have permission from the Hispanic Studies section. Admission into SPA 444 Honours Thesis requires an average of at least 75% in SPA 443 Advanced Research Methods: Honours Thesis Proposal.

Major in Hispanic Studies:

Hispanic Studies majors are required to complete 42 credits in Spanish and 6 credits in MLA 101 and MLA 102. Students who are double majoring in Hispanic Studies and another full major and students who are pursuing the Hispanic Studies major on a part-time basis are exempt from the MLA 101 and MLA 102 requirements.

SPA 101 Spanish Language I
SPA 102 Spanish Language II
SPA 201 Spanish Language III **AND**
SPA 203 Spanish Practice I
SPA 202 Spanish Language IV **AND**
SPA 204 Spanish Practice II
SPA 301 Advanced Spanish: Topics and Texts 1
SPA 302 Advanced Spanish: Topics and Texts II
SPA 325 Advanced Spanish Grammar
SPA 331 Introduction to Peninsular Literature
SPA 332 Introduction to Spanish American Literature

And three 300 or 400 level courses chosen from the Advanced-level SPA Electives List:

SPA 308 Business Spanish
SPA 311 Spain: Civilization and Culture
SPA 313 Mexico: Civilization and Culture
SPA 314 The Central American Region and the Spanish Caribbean: Civilization and Culture
SPA 315 Independent Studies I
SPA 316 Independent Studies II
SPA 317 -The Southern Cone and the Andean Region: Civilization and Culture
SPA 318 Spanish Cinema
SPA 319 Topics in Hispanic Culture
SPA 321 History of the Spanish Language
SPA 326 Spanish Phonetics and Pronunciation
SPA 327 -Teaching of Spanish as a Foreign Language: Methodology and Didactics
SPA 328 -Translation: Spanish to French, Spanish to English and French/English to Spanish
SPA 330 Major Hispanic Authors
SPA 333 Hispanic Literature and Films
SPA 334 Spanish Caribbean Literature
SPA 335 Death, Dictatorship and Discovery: Representations of the Spanish Civil War
SPA 341 Seminar in Linguistics
SPA 342 Seminar in Literature
SPA 435 Directed readings and Research I
SPA 436 Directed readings and Research II

Major in Modern Languages with concentration in Hispanic Studies *(30 credits)*

SPA 101 Spanish Language I
SPA 102 Spanish Language II
SPA 201 Spanish Language III **AND**
SPA 203 Spanish Practice I
SPA 202 Spanish Language IV **AND**
SPA 204 Spanish Practice II
SPA 301 Advanced Spanish: Topics and Texts 1 **OR**
SPA 302 Advanced Spanish: Topics and Texts II
SPA 325 Advanced Spanish Grammar
SPA 331 Introduction to Peninsular Literature **OR**
SPA 332 Introduction to Spanish American Literature

And one from the Advanced-level SPA Electives List (See Major in Hispanic Studies)

Double Major French – Spanish and Education

(24 credits in Spanish)

SPA 203 Spanish Practice I
SPA 204 Spanish Practice II
SPA 301 Advanced Spanish: Topics and Texts 1
SPA 302 Advanced Spanish: Topics and Texts II
SPA 325 Advanced Spanish Grammar
SPA 331 Introduction to Peninsular Literature
SPA 332 Introduction to Spanish American Literature

And one from the Advanced-level SPA Electives List (See Major in Hispanic Studies)

Minor Hispanic Studies *(24 credits)*

SPA 101 Spanish Language I
SPA 102 Spanish Language II
SPA 201 Spanish Language III **AND**
SPA 203 Spanish Practice I
SPA 202 Spanish Language IV **AND**
SPA 204 Spanish Practice II
SPA 301 Advanced Spanish: Topics and Texts 1 **OR**
SPA 302 Advanced Spanish : Topics and Texts II

And one from the Advanced-level SPA Electives List (See Major in Hispanic Studies)

Certificate in Hispanic Studies *(30 credits)*

SPA 101 Spanish Language I
SPA 102 Spanish Language II
SPA 201 Spanish Language III **AND**
SPA 203 Spanish Practice I
SPA 202 Spanish Language IV **AND**
SPA 204 Spanish Practice II
SPA 301 Advanced Spanish Language: Topics and Texts 1
OR
SPA 302 Advanced Spanish Language: Topics and Texts II

And three Advanced- level courses chosen from the following:

SPA 325 Advanced Spanish Grammar
SPA 331 Introduction to Peninsular Literature
SPA 332 Introduction to Spanish American Literature
SPA 308 Business Spanish
SPA 311 Spain: Civilization and Culture
SPA 313 Mexico: Civilization and Culture
SPA 314 The Central American Region and the Spanish Caribbean: Civilization and Culture
SPA 315 Independent Studies I
SPA 316 Independent Studies II
SPA 317 The Southern Cone and the Andean Region: Civilization and Culture
SPA 318 Spanish Cinema
SPA 319 Topics in Hispanic Culture
SPA 321 History of the Spanish Language
SPA 326 Spanish Phonetics and Pronunciation
SPA 327 Teaching of Spanish as a Foreign Language: Methodology and Didactics
SPA 328 Translation: Spanish to French, Spanish to English and French/English to Spanish
SPA 330 Major Hispanic Authors
SPA 333 Hispanic Literature and Films
SPA 334 Spanish Caribbean Literature
SPA 335 Death, Dictatorship, and Discovery: Representation of the Spanish Civil War
SPA 341 Seminar in Linguistics
SPA 342 Seminar in Literature
SPA 435 Directed readings and Research I
SPA 436 Directed readings and Research II

Language Courses

SPA 100b Spanish Language I-II: Intensive Course 6-6-0
The course covers the contents of SPA 101a and SPA 102b in one semester. Language audio exercises are included.
No prerequisite

SPA 101a Spanish Language I 3-3-0
The course is designed for students with little or no background in Spanish. Speaking skills are developed with an orientation toward real-life tasks and genuine communication. Listening trains the student to recognize words, phrases, and international patterns in spoken Spanish. The course includes language audio exercises.
No prerequisite.

SPA 102b Spanish Language II 3-3-0
The course is a continuation of Spanish Language I. It is proficiency-based and includes an elementary survey of the basic categories of Spanish grammar. The general objective is Spanish communication. Language audio exercises are included.
Prerequisite: SPA 101a or equivalent

SPA 120a Spanish Language II-III Intensive 3-3-0
This course covers the contents of SPA102a and SPA201a in one semester. The course is designed for students who are able to communicate in Spanish but need additional exposure to the basic structures and functions of the language. Students may take SPA 203a concurrently. Upon completion of SPA 120a, students will be allowed to take SPA202b and SPA 204b. Language audio exercises are included.
Prerequisite: sufficient knowledge of Spanish

SPA 200ab Spanish Language III-IV 6-6-0
The course will be an intensive review of the Spanish Language. Emphasis is placed on using the acquired language. Oral and written exercises with attention to underlying structures lead to practice with complex structures in speech, reading, listening and writing. The course will be taught in Spanish.
Prerequisite: SPA 100 or SPA 101 & SPA 102 or equivalent

SPA 201a Spanish Language III 3-3-0
The course is designed for students with a basic background in Spanish. The purpose of this course is to give a better understanding of the Spanish language. Emphasis is placed on using the acquired language. Students will be able to more easily communicate their own ideas and will enhance their written and oral communication. Language audio exercises are included.
Prerequisite: SPA 100b or SPA 102b or equivalent

SPA 202b Spanish Language IV 3-3-0
An intensive review of the Spanish language. Oral and written exercises with attention to underlying structures lead to practice with complex structures in speech, reading, and writing. Language audio exercises are included.
Prerequisite: SPA 201a or SPA 120a or equivalent

SPA 203a Spanish Practice I 3-3-0
This course is designed to complement the Intermediate Spanish Language course. Listening and reading comprehension will be improved through regular listening activities based on authentic texts and through the close reading of a novel. Grammar is presented using traditional exercises.
Prerequisite: SPA 100b or SPA 102b or equivalent

SPA 204b Spanish Practice II 3-3-0
A continuation of Spanish Practice I. The course involves the review of difficult aspects of Spanish morphology and syntax. Expression will be improved through regular oral and writing activities.
Prerequisite: SPA 203a or equivalent

SPA 301ab Advanced Spanish: Topics and Texts I 3-3-0
The purpose of this course is to develop linguistic competence using the Hispanic world as a focus for class discussion, grammar review, and introduction to Hispanic social contexts and texts. Course materials may also include films, interviews, selections from the press, as well as literary or historical readings.
Prerequisite: SPA 202 and SPA 204 or equivalent

SPA 302ab Advanced Spanish: Topics and Texts II 3-3-0
This course continues to reinforce the practice of oral and written communication in Spanish through topics in contemporary cultural materials from Spain and Spanish American countries. Students will focus on refining pronunciation and developing vocabulary. Course work involves grammar review and practice writing.
Prerequisite: SPA 202 and SPA 204 or equivalent

SPA 308ab Business Spanish 3-3-0
This course builds on grammar and vocabulary knowledge already acquired at the intermediate level provides students with practical uses of spoken and written Spanish for business contexts, commercial vocabulary, economic, and technical terminology in Spanish. Composition based on models of business correspondence directed to Spanish-speaking
Prerequisite: SPA 202b and SPA 204b or equivalent

Civilization and Culture

SPA 311ab Spain: Civilization and Culture 3-3-0
The course examines Spain through its Roman, Arab, Jewish and Christian history, and through its literature, art, language and customs. The objective of the course is an understanding of present-day Spanish culture and society. The use of compact discs, CDrom and video will complement the information from the textbook.
Prerequisite: SPA 204b or equivalent

SPA 313ab Mexico: Civilization and Culture 3-3-0
This course will focus on the different periods in the history of Mexican culture and society. Beginning with pre-Aztec civilization, the course will examine the political, economic and cultural organization that evolved up to the Spanish Conquest of the 16th century. The Mexican Baroque and succeeding periods will then be examined with particular emphasis on the structure and composition of the indigenous and Spanish populations. Special attention will be paid to this socio-economic context of each period, specifically those characteristics which led ultimately to the Revolution. Finally, the course will focus on the leading intellectuals of the 19th and 20th centuries, including the muralists, and the crucial events that have shaped present-day Mexico.
Prerequisite: SPA 204b or equivalent

SPA 314ab The Central American Region and the Spanish Caribbean: Civilization and Culture 3-3-0
This course offers an overview of major historical movements involving political, social, economic and cultural developments. Emphasis is on the major achievements of Cuba, Puerto Rico, the Dominican Republic, Venezuela, Colombia, and the Central American countries.
Prerequisite: SPA 204b or equivalent

SPA 317ab The Southern Cone and the Andean Region: Civilization and Culture 3-3-0
This course involves a study of the culture and civilization of the region from a variety of viewpoints: historical, literary, sociological, anthropological, and political. Emphasis is on the major achievements of Argentina, Peru, Uruguay, Paraguay, Ecuador, Bolivia, and Chile.
Prerequisite: SPA 204b or equivalent

SPA 318ab Spanish Cinema 3-3-2
This course is designed to familiarize students with the Spanish Cinema and will consider the political, sociological and cultural context within which Spanish Cinema has developed. The course will examine works of film-makers who have contributed to the creation of contemporary Spanish Cinema, including, Buñuel, Saura, Pilar Miró, Almodóvar and others, Students will be required to watch films in addition to attending class.
Prerequisite: SPA 204b or equivalent

SPA 319ab Topics in Hispanic Culture 3-3-0
Cultural issues in the Spanish-speaking world. Topics include film, journalism, religion, language in society, popular and mass culture, visual arts, immigration, mestizaje, and slavery.
Prerequisite: SPA 204b or equivalent

Literature

SPA 330ab Major Hispanic Authors 3-3-0
This course offers a selection of representative works from the major writers and literary periods in Spain and Spanish America. Authors include Cervantes, Lope de Vega, Calderón, Galdós, García Márquez, Cortázar, Fuentes, Paz, Carpentier, and others. A variety of literary genres will be examined.
Prerequisite: SPA 331a or SPA 332a

SPA 331a Introduction to Peninsular Literature 3-3-0
A course designed to cover the development of literature in Spain through selected readings with particular attention to the Twentieth Century. Such authors as Camilo José Cela, Miguel Delibes, Carmen Gaite, Ana Maria Matute will serve to develop reading facility and appreciation of the written language. Specific topics which arise from the readings will initiate discussions, oral expositions and compositions.
Prerequisite: SPA 325 (prerequisite or corequisite), or equivalent

SPA 332a Introduction to Spanish American Literature 3-3-0
A course which surveys the development of literature in Spanish America with emphasis on modern authors. Included are works by such outstanding writers as Alejo Carpentier, Julio Cortázar, José Donoso, Carlos Fuentes, Gabriel García Márquez, Juan Rulfo. The course provides opportunities to develop reading facility and appreciation of literature through selected texts. Discussions and oral presentations on specific topics arising from the readings will help to develop oral fluency. Writing competence will be reinforced by compositions.
Prerequisite: SPA 325 (prerequisite or corequisite), or equivalent.

SPA 333ab Hispanic Literature and Films 3-3-2
This course is a survey of Hispanic cinema on literary masterpieces. Students will examine literary texts, scripts, and their screen adaptations. Writers and directors include Gabriel Garcia Márquez, Manuel Puig, Camilo José Cela, Edmundo Desnoes, Almudena Grandes, Luis Buñuel, Héctor Babenco, Carlos Saura, Pedro Almodóvar, Tomás, Gutiérrez Alea, and others.
Prerequisite: SPA 325 (prerequisite or corequisite), or equivalent

SPA 334ab Spanish Caribbean Literature 3-3-0
This course explores how Caribbean literature in Spanish from countries such as Cuba, Porto Rico and the Dominican Republic is related to the history of slavery, colonialism and post-colonialism in the region. The course will focus on the influential role of ethnicity, gender and socio-political development in the formation and interpretation of texts. Authors may include Carpentier, Fernández Retamar, Rosario Ferré, Ana Lydia Vega and others.
Prerequisite: SPA 331a or SPA 332a, or equivalent

SPA 335ab Death, Dictatorship, and Discovery: Representations of the Spanish Civil War 3-3-0
The Spanish Civil War (1936-1939) was a defining moment in Spanish, European, and world history, maintaining to the present a close relationship with cultural production. This course explores the representation of the Civil War from the propagandistic works of the conflict itself, to the censorship of the subsequent dictatorship under Francisco Franco, toe the memory-politics of the current democratic era. The primary focus of this course will be narrative fiction, in particular novels and films, though poetry, art, music, architecture, and documentaries will also be discussed.
Prerequisites: SPA 325 (prerequisite or corequisite) or equivalent

SPA 435ab Directed readings and Research I 3-3-0
This course will involve tutorial supervision of research on subjects and readings from Peninsular Literature not treated in regular courses.
Prerequisite: SPA 331 and by permission of Hispanic Studies Section.

SPA 436ab Directed readings and Research II 3-3-0
This course will involve tutorial supervision of research on subjects and readings from Spanish American Literature not treated in regular courses.
Prerequisite: SPA 332 and by permission of Hispanic Studies Section.

Linguistics

SPA 321ab History of the Spanish Language 3-3-0
This course focuses on the evolution of the Spanish language from its origins to the present. This diachronic analysis will encompass linguistic aspects such as phonology, morphology, syntax, and semantics.
Prerequisite: SPA 204b, or equivalent

SPA 325ab Advanced Spanish Grammar 3-3-0
The main objective of this course is an intensive review of the more complex aspects of Spanish grammar for non-native speakers. The curriculum will cover specific areas of grammar: indicative/subjunctive, ser/estar, prepositions
Prerequisite: SPA 204b, or equivalent

SPA 326ab Spanish Phonetics and Pronunciation 3-3-0
This course will involve a study of Spanish pronunciation based on phonetics, including the basic concepts of phonetic description and transcription and the study of Spanish vowel and consonant systems, stress and intonation. Attention will be paid to individual difficulties.
Prerequisite: SPA 204b, or equivalent

SPA 327ab Teaching of Spanish as a Foreign Language: Methodology and Didactics 3-3-0
This is a professional course that aims to form well-prepared future Spanish teachers. This survey of the teaching of Spanish as a Foreign Language will have a combined theoretical and practical approach to current trends in teaching materials, resources, and evaluation types and criteria. Close attention will be paid to the development of the main competences in language learning, what they are, and how to stimulate and evaluate them. The course will be taught in Spanish.
Prerequisites: SPA 325 and SPA 321 or SPA 326 or equivalent

SPA 328ab Translation: Spanish to French, Spanish to English and French/English to Spanish) 3-3-0
This is a professional, practical course designed to develop an understanding about translation theory and skills. Theoretical reflections will revolve around the role of the translator, methodologies, text-types and styles, standards and ethics of the profession, and the role of the new technologies. The practical approach will consist of acquiring techniques and strategies of direct and inverse translation, on both specialized and non-specialized texts.
Prerequisites: SPA 325 and SPA321 or SPA326 or equivalent

Seminars

SPA 341b Seminar in Linguistics 3-3-0
Research and individual projects within an area of Spanish Linguistics.
Prerequisite: SPA 321ab or SPA 325 or SPA 326

SPA 342b Seminar in Literature 3-3-0
Research and individual projects within an area of Peninsular or Spanish American Literature.
Prerequisite: SPA 331a or SPA 332a

SPA 443 Advanced Research Methods: Honours Thesis Proposal 3-3-0
This course explores the theory, methodology, and practice behind the creation of a research project in Spanish or Latin American literatures, cultures, or Spanish linguistics. In consultation with a supervising member of the Hispanic Studies faculty, students will prepare a research proposal that outlines the specific topic to be explored, establishes clear objectives and parameters for the study, and provides a preliminary bibliography of key primary and secondary sources. This course constitutes the first step in the completion of the Honours Thesis in Hispanic Studies.
Prerequisites: SPA 325, SPA 331, SPA 332 or equivalent

SPA 444 Honours Thesis 3-0-0
This course constitutes the second step in the realization of the Honours Thesis as students will complete the research project outlined by their work in SPA 443.
Prerequisite: SPA 443

Independent Studies

SPA 315ab Independent Studies I 3-0-0
Individual study projects within an area of Spanish linguistics, literature or civilization.
Prerequisite: Introduction to Peninsular Literature (SPA 331a) or Introduction to Spanish American Literature (SPA 332a) or Advanced Spanish Grammar (SPA 325) or Spanish Phonetics and Pronunciation (SPA 326)

SPA 316ab Independent Studies II 3-0-0
Individual study projects within an area of Spanish linguistics, literature or civilization.
Prerequisite: Introduction to Peninsular Literature (SPA 331a) or Introduction to Spanish American literature (SPA 332a) or Advanced Spanish Grammar (SPA 325) or Spanish Phonetics and Pronunciation (SPA 326)

Italian Studies

Major in Modern Languages

The Italian component consists of 30 credits.

International Major in Italian Studies

To obtain an International Major in Italian Studies students must complete MLA 101 and MLA 102, and 42 credits in Italian, 24 of which should be at the intermediate or advanced level (200 or 300 level). The selected courses must be academically pertinent to their program and must be approved by the Chair of the Italian Studies Section. With departmental approval, some of these courses may be double-counted for another program concentration. In order to complete all the credit requirements of this program, students are expected to spend at least one semester at a partner university in Italy. The International Major in Italian Studies is open only to students who are eligible for an exchange program.

Minor in Italian

Students may earn a minor in Italian by obtaining 24 credits in Italian courses.

ITA 100b Introductory Italian Language: Intensive Course 6-6-1
A beginners course conveying a basic knowledge of spoken and written Italian as well as the fundamentals of Italian grammar; it covers the contents of ITA 101a and ITA 102b in one semester.

ITA 101a Introductory Italian Language I 3-3-0
This course intends to give beginners a basic knowledge of spoken and written Italian as well as the fundamentals of Italian grammar.

ITA 102b Introductory Italian Language II 3-3-0
Continuation of ITA 101a. Intensive practice in oral and written Italian.
Prerequisite: ITA 101a or equivalent

ITA 201a Intermediate Italian I 3-3-0
The aims of this course are to continue the linguistic studies begun in the first year and to introduce students to modern Italian society. Intensive practice in speech patterns and written structures.
Prerequisite: ITA 100b or ITA 102b or equivalent

ITA 202b Intermediate Italian II 3-3-0
Continuation of ITA 201a.
Prerequisite: ITA 201a or equivalent

ITA 203a Selected Topics in Italian I 3-3-0
The course is designed to give students the opportunity to develop the oral and written skills as well as the confidence needed to complement the study of grammar, previously undertaken, with a variety of contemporary texts emphasizing the more practical aspects pertaining to the country's historical, social and cultural manifestations. A linguistic analysis of students' written assignments, aiming at reviewing structures and vocabulary, will be dealt with by way of group discussions.
Prerequisite: ITA 100ab or ITA 102b or equivalent
Corequisite: ITA 201a

ITA 204b Selected Topics in Italian II 3-3-0
A continuation of ITA 203a. Further development of communicative skills and discriminate use of audio-visual material.
Prerequisite: ITA 201a and ITA 203 or equivalent
Corequisite: ITA 202b

ITA 235ab Introduction to Italian Literature 3-3-0
A survey of Italian literature from its origins to the 16th century. The course focuses on writers such as Dante, Petrarca, Boccaccio, Machiavelli, and Ariosto in an effort to elucidate the many facets of Italian Renaissance and at the same time comprehend the enormous impact, both literary and linguistic, these authors had on future generations of Italian as well as European intellectuals.
This course is given in English and can be counted towards fulfilling the credit requirements of an Italian concentration within the Major in Modern Languages, a Minor in Italian and the International Major in Italian Studies.

ITA 240 / HIS 234 The Italian Renaissance 3-3-0
This course will examine the Italian Renaissance as a pivotal moment for social, cultural, and political change. By examining the relationship between developments in art, literature, and popular mentalities of the time, the course will explore the Italian Renaissance as a catalyst for the broader transformation of the early modern world.

ITA 270 /
LIB 270 Venice And Its Mystique 3-3-1*
"As the Twentieth century draws to a close, no one knows quite what to expect, if anything, of the future. There is a strong need for magic, for a place that is outside of time, for a postponement of reality. For Venice." Gore Vidal.
Once the crossroad of western and eastern civilizations, over the centuries Venice has been seen as the symbol of freedom and cosmopolitanism, but also as the city where artistic and cultural production can thrive. Venice surreal setting and the lushness of its artifacts have become emblematic of the cultural production of the Western civilization, creating a unique landscape of unsurpassed aesthetic richness. It is in this exceptional urban scenery, that blends together water, art and culture, that this five- week course will take place. This language and culture course will provide students with a basic knowledge of Italian and familiarize them with the history and culture of one of the few cities that can fulfill our "need for magic", the Serenissima. This course will be taught in English. Students who wish to count the course for Italian credit will submit their assignment in Italian and *participate in certain additional activities in Italian.

ITA 300 CAI stage/internship 3-3-0
This six-week course provides students with the unique opportunity to live and work in Italy for six weeks, usually from mid-June until the end of July. Students will work as English language assistant in the Alps near Torino. They will be able to acquire teaching experience in addition to improving their Italian Language skills. The CAI branch in Torino will also provide weekly reimbursements.
Prerequisite: ITA 203 and ITA 204 and the approval of the head of Italian section and the CAI (Club Alpino Italiano) Torino committee

ITA 301a Advanced Italian I 3-3-0
The aim of this course is to reinforce the active and passive knowledge of the Italian language. Selected readings on specific topics i.e.: Italian language and civilization, will be presented and discussed.
Texts: TBA
Prerequisite: ITA 202b and ITA 204b or equivalent

ITA 302b Advanced Italian II 3-3-0
Continuation of ITA 301a.
Prerequisite: ITA 301a or equivalent

ITA 303a Grammar and Composition 3-3-0
Texts relating to Italian language and civilization.
Prerequisite: ITA 202b and ITA 204b or equivalent

ITA 304b Conversational Italian 3-3-0
Aspects of Italian culture, history and writing.
Prerequisite: ITA 202b and ITA 204b or equivalent

ITA 305a Introduction to Italian Literature I 3-3-0
A survey of Italian literature from its origins to the 16th century. The course focuses on writers such as Dante, Petrarca, Boccaccio, Machiavelli and Ariosto in an effort to elucidate the many facets of Italian Renaissance and at the same time comprehend the enormous impact, both literary and linguistic, these authors had on future generations of Italian as well as European intellectuals.
Prerequisite: ITA 202b, ITA 204b or equivalent

ITA 306b Introduction to Italian Literature II 3-3-0
Continuation of ITA 305a. Influential authors ranging from Tasso to Goldoni, from Manzoni to Leopardi, Verga and Pirandello will be presented and studied through excerpts of some of their most important works, in an attempt to investigate the socio-cultural contexts of Italian society from which specific issues were to evolve.
Prerequisite: ITA 305a

ITA 307a Modern Italian Prose 3-3-0
The course intends to offer students the opportunity to get acquainted with some of Italy's most representative prose writers of the 20th century. Selected passages from novels and short stories will be read and discussed so as to penetrate the socio-cultural realities from which such works originated.
Prerequisite: ITA 202b, ITA 204b or equivalent

ITA 308b Modern Italian Poetry 3-3-0
The course is complementary to ITA 307a. Major poets of the 20th century, from D'Annunzio to the avant-garde, will be studied. The last part of the course is devoted to the "cantautori" [=song writers and singers] phenomenon, in trying to assess the profound influence they had on some layers of Italian society of the post-war years, especially from the sixties on.
Prerequisite: ITA 307a

ITA 309ab Italian Cinema and Society 3-3-0
This course will investigate a few pivotal moments of Italian history during the twentieth century, through some of the major works of Italian cinema. Its main purpose is to develop an appreciation and understanding of the evolution and current of Italian cinema. The first part will concentrate on films associated with Neo-realism, specifically with those produced in the period of De Sica, Visconti, Rossellini and Antonioni. The second part deals with important directors active during and after the economic boom. Special attention will be drawn to the most politicized and socially committed filmmakers such as Monicelli, Scola, Moretti, Amelio and Giordana.

ITA 310ab Italian Cinema and Society (II) 3-3-0
This course deals with some of the critically acclaimed directors of the "commedia all'italiana", a cinematic genre originating in the "commedia dell'arte" tradition, as well as with some of the more politicized and socially committed filmmakers such as Rosi, Bellocchio, Petri and the Taviani brothers. The course will focus on directors representative of the first generation (Monicelli, Risi, Germi and Scola) and of the second generation (Moretti, Salvatores, Benigni and Amelio) so as to develop an appreciation of the evolution and current trends in Italian cinema.
Prerequisite: ITA 202, ITA 204b or equivalent

ITA 311ab Italian Civilization and Culture 3-3-0
This course is designed to introduce students to the main elements of Italian culture and civilization. Its objective is to offer students a rich understanding of multifaceted contemporary Italian society through a survey of its history, literature, art and philosophical tradition. When appropriate, specific attention will be devoted to Italian political and economic life. The course will be taught in Italian.
Prerequisite: ITA 202, ITA 204 or equivalent

ITA 315a Independent Studies I 3-3-0
Individual study projects within the area of Italian language, literature, cinema or civilization.
Permission of Instructor

ITA 316b Independent Studies II 3-3-0
Individual study projects within the area of Italian language, literature, cinema or civilization.
Permission of Instructor

ITA 321a Letture guidate I 3-3-0
Guided readings in Italian literature. Masterpieces of Italian literature from the Risorgimento to World War I. A good knowledge of Italian is required.
Prerequisite: ITA 302b or equivalent

ITA 322b Letture guidate II 3-3-0
Guided readings in Italian literature. Masterpieces of Italian literature from World War I to the present time. A good knowledge of Italian is required.
Prerequisite: ITA 321a or equivalent

ITA 384 /
LIB 384 Dante's Divine Comedy 3-3-1*
According to Dante none of us can save the wound in our souls without taking our own pilgrimage to hell, without purging our sins and without letting go of ourselves such as to experience ecstatic union with the foundations of all reality. This is perhaps what James Joyce meant when he said that Dante is his "spiritual food" and that reading Dante is like "looking at the sun." This course will explore some of the philosophical, poetic, religious, political and historical richness of Dante's allegorical masterpiece and lead each student on his/her personal journey through Inferno, Purgatorio and Paradiso. This course will be taught in English. Students who wish to count the course for Italian credit will submit their assignments in Italian and participate in *one-hour discussion in Italian that will take place on alternating weeks.
Prerequisites: None. However, students who wish to have this course counted for Italian Studies program credit must have already completed ITA 202 and ITA 204, and will complete various components of the course in Italian as stipulated in course description. Otherwise, the course will be counted as a Liberal Arts/free elective course.

ITA 385 / LIB 385 Giovanni Boccaccio's Decameron 3-3-0
One of the most enjoyable, beloved and imitated literary works of all time, the Decameron by Giovanni Boccaccio (1313-1375) is among the great texts whose influence transcends the written word and expands into almost every area of the Western cultural tradition. A book on love according to Boccaccio himself, this masterpiece is in reality an audacious and sophisticated human comedy that brings to the reader the richness of life itself.
Through an in-depth reading of the short stories that comprise the work, this course will explore the philosophical, historical, political, social and gender related issues that arise from this literary masterpiece. We will also examine the enormous influence this test had on future visual and performative arts, literature and music.

Japanese Studies

Minor in Japanese Studies

The Minor in Japanese Studies is designed to provide students with an intermediate to advanced level competence in Japanese along with an understanding of various aspects of Japanese society, its civilization, its culture and its institutions.

For a Minor in Japanese Studies students must complete 24 credits:

JSE 101a	Introduction to Japanese Language I
JSE 102b	Introduction to Japanese Language II
JSE 201a	Intermediate Japanese Language I
JSE 202b	Intermediate Japanese Language II
JSE 301a	Advanced Japanese Language I
JSE 302b	Advanced Japanese Language II
JSE 150ab	Japanese Society and Culture
JSE 310ab	Independent Study: Topics in Japanese Language and Culture I
JSE 311ab	Independent Study: Topics in Japanese Language and Culture II
JSE 320ab	Introduction to Debate in Japanese
JSE 401a	Internship in Yamaguchi I
JSE 402b	Internship in Yamaguchi II

Modern Languages Major: Japanese International Concentration

Students who have been accepted to go on exchange in Japan may apply for a Japanese Studies International Concentration (30 credits) within the Major in Modern Languages.

Courses are chosen prior to the exchange in consultation with the Head of the Japanese Studies section.

Language Courses:

JSE 100ab Introduction to Japanese Language I-II Intensive Course 6-6-2
This course covers the contents of JSE 101a and JSE 102b in one semester.

JSE 101a Introduction to Japanese Language I 3-3-1
The purpose of the course is to equip students with grammatical patterns and basic vocabulary of present day, standard Japanese. Hiragana, one of the three writing systems of the language, will be gradually introduced, followed by Katakana and Kanji. Grammar sessions will be conducted in English while in drill sessions maximum use of Japanese will be expected. Concurrent registration of JSE 150 strongly recommended for exchange programs.

JSE 102b Introduction to Japanese Language II 3-3-1
Continuation of Introduction to the Japanese Language I.
Prerequisite JSE 101 or equivalent

JSE 201a Intermediate Japanese Language I 3-3-1
This course introduces students to more grammatical (as well as lexical) items that can be put to immediate use. The purpose of the course is to equip the students with comprehensive grammatical patterns and vocabulary of present-day, standard Japanese at the basic level.
Prerequisite JSE 100 or JSE 102 or equivalent

JSE 202b Intermediate Japanese Language II 3-3-1
Continuation of Intermediate Japanese Language I.
Prerequisite JSE 201 or equivalent

JSE 301a Advanced Japanese Language I 3-3-1
This course completes the over-all syntax of present-day Japanese, providing the students with a solid foundation for further studies in the field of their choice. The course adds more vocabulary as well as Kanji.
Prerequisite JSE 202 or equivalent

JSE 302b Advanced Japanese Language II 3-3-1
Continuation of Advanced Japanese I.
Prerequisite JSE 301 or equivalent

JSE 320ab Introduction to Debate in Japanese 3-3-0
This course provides an introduction to formal, academic debate in Japanese. The course covers (1) the theoretical background where you will learn how to define key terms, how to construct arguments, how to refute your opponent's arguments, etc., (2) how to prepare for debates and (3) practice debating in Japanese (cross examination style).
Prerequisite JSE 202b or Instructor's Permission

Courses on Japan:

JSE 150ab Japanese Society and Culture 3-3-0
This course is designed to give a basic level of knowledge on the main aspects of modern Japanese society and culture. The aim is twofold: first, to present modern Japan as it might be seen by the Japanese themselves, in hope that the student might learn to perceive Japanese society and culture from a Japanese point of view, and; second, to introduce some of the minute details – the intricacies – of everyday life in Japan which the student might not be aware of, yet which will help him or her to better understand and experience the ways of Japan. Concurrent registration of JSE 101 strongly recommended for exchange programs.

JSE 310ab Independent Study: Topics in Japanese Language and Culture I 3-3-0
Students will undertake projects related to some aspect of Japanese language, literature, society, and/or culture.
Prerequisite JSE 202b or instructor's permission

JSE 311ab Independent Studies: Topics in Japanese Language and Culture II 3-3-0
Students will undertake projects related to some aspect of Japanese language, literature, society and/or culture.
Prerequisite: JSE 202b or Instructor's Permission

JSE 401a Internship in Yamaguchi I 3-3-0
This is a one-year-long internship program that provides rare, hands-on experience of Japan, within the framework of the Japanese Studies Program. Students will work as assistants at a nursery school of the Town of Abucho, Yamaguchi, Japan with many generous benefits.
Prerequisite: JSE 101 and JSE 102 as well as an approval of the section chief of the Japanese Studies Program

JSE 402b Internship in Yamaguchi II 3-3-0
This is a one-year-long internship program that provides rare, hands-on experience of japan, within the framework of the Japanese Studies Program. Students will work as assistants at a nursery school of the Town of Abucho, Yamaguchi, Japan with many generous benefits.
Prerequisite: JSE 101 and JSE 102 as well as an approval of the section chief of the Japanese Studies Program

Music

The Department of Music offers a wide range of courses that provide a general introduction to the subject or that lead to a B.A. degree with either an Honours, Major or Minor in Music. Students also have the option to choose between the disciplines of Classical or Popular Music Studies – the latter a program unique to most Canadian universities. Two popular interdisciplinary programs include the B.A. in Arts Administration (Music Concentration) and the B.Ed. (Double Major in Secondary Education and Music). The Department also welcomes students from across campus to select from a wide range of course offerings geared to those with little or no background in music.

Courses leading to the B.A. in Music, following either the Classical or Popular Music stream, are drawn from four areas of study: history and literature of music; theory and composition; individual practical study in both classical and jazz instruments or voice; and choral or instrumental ensemble. Courses in the history and literature of music include historical surveys, genre studies, and special interest courses on many topics. The collection of scores, recordings and DVDS, and critical studies housed in the University Music Library provides a basic resource for this study. Basic theory courses are combined with theory skills classes (ear-training, sight-singing and keyboard harmony). Related courses in composition, harmony, form and analysis, counterpoint and orchestration are also available. Performance study is available in all orchestral, band and keyboard instruments, as well as voice. Instruction is provided by professional musicians who live and work in the region. Ensembles include the University Singers, Chamber Music Ensembles, Jazz Combos, Rock Bands and the Bishop's Chamber Orchestra. Numerous performing opportunities are available as early as the first semester of study for students both on and off campus.

The Department is housed in the gracious, 19th-century Norton Building. In addition to the acoustically superb, 165-seat Bandeen Recital Hall, facilities include studios for teaching and ensemble rehearsal, classrooms, a theory lab, and a number of practice rooms all equipped with Yamaha upright pianos. The Department has a Karl Wilhelm continuo organ, a 2-manual French Baroque harpsichord made by Montreal craftsman Yves Beaupré, two 7-foot Hamburg Steinway pianos, a 7-foot American Steinway piano, and a double bass. Students also have access to a 2-manual Wilhelm tracker organ in St. Mark's Chapel and a 9-foot American Steinway piano in Centennial Theatre.

Beyond its academic role, the Department of Music is a centre of cultural activities for the University community and beyond. The Department offers a full series of concerts by Canadian and international musicians in Bandeen Hall, and co-sponsors a series of organ recitals in St. Mark's Chapel. Several Artists-in-Residence visit the Department each year to present concerts and master classes with Bishop's music students.

Admission

Students seeking admission must satisfy the general requirements for admission to the university. In addition, the Music Department requests that each applicant submit details of previous musical studies and experience. An audition, recorded in audio-video format is required. Please contact the Admissions Office for details.

As a general rule, students should possess their own instruments (with the exception of piano, double bass, harpsichord and organ).

PROGRAM OPTIONS

I. B.A. Honours in Music

Required: 60 credits

In addition to the requirements listed below for the Music Major, the following courses are required for students pursuing the Honours Program, whether in the Classical or Popular Music Studies stream.

Music Theory or Composition Option:

MUS 300	3 credits
Theory/Composition Elective	3 credits
MUS 435	6 credits

Music History Option:

MUS 300	3 credits
Music History Elective	3 credits
MUS 445	6 credits

Special Project Option:

MUS 300	3 credits
Elective related to topic	3 credits
MUS 455	6 credits

Performance Option:

Music Literature Elective	3 credits
MUS 372 & MUS 373	4 credits
MUS 475	6 credits

Students intending to elect the Honours program should declare their intent in writing by the fourth full-time semester. An Honours thesis or recital proposal must be approved by the Department. An average of at least 70%, calculated on the marks obtained in all courses attempted in both the first and second 30-credit program years, is required. In performance, an average of at least 80% is required in MUS 373 to continue in Honours Performance.

II. B.A. Major in Music (Classical)

Required: 48 credits

2 Music Literature Courses	6 credits
4 Music History Courses.	12 credits
MUS 121, MUS 122 & MUS 221	3 credits
MUS 131, MUS 132 & MUS 231	9 credits
Any 2 from MUS 332, MUS 333, MUS 335, MUS 337	6 credits
4 Ensemble Courses	4 credits
MUS 172, MUS 173, MUS 272 & MUS 273	8 credits

Year 1 Requirements (20 credits)

2 Music Literature Courses ..... 6 credits
MUS 121 & MUS 122 ..... 2 credits
MUS 131 & MUS 132 ..... 6 credits
Any 2 Ensemble Courses
(taken from MUS 180 – MUS 189) ..... 2 credits
MUS 172 & MUS 173 ..... 4 credits

Year 2 Requirements (19 credits)

2 Music History Courses ..... 6 credits
MUS 221 ..... 1 credit
MUS 231 ..... 3 credits
MUS 332 or MUS 333 or
MUS 335 or MUS 337 ..... 3 credits
Any 2 Ensemble Courses
(taken from MUS 280 – MUS 289) ..... 2 credits
MUS 272 & MUS 273 ..... 4 credits

Other Requirements (9 credits)

These remaining music credits may be taken at any time during the student's stay at Bishop's. Majors and Minors are entitled to take more than the required number of music credits.

III. B.A. Minor in Music (Classical)

Required: 24 credits

MUS 110 & MUS 111 ..... 6 credits
MUS 121 ..... 1 credit
MUS 130 & MUS 131 or
MUS 131 & MUS 132 ..... 6 credits
Any 2 Ensemble Courses
(taken from MUS 180 – MUS 189) ..... 2 credits
MUS 172 & MUS 173 ..... 4 credits
Music Electives ..... 5 credits

IV. B.A. Major in Popular Music Studies (Jazz, Pop/Rock)

In addition to our Classical Music Program, the Music Department at Bishop's University offers a solid musical education to those interested in pursuing a career in popular music–in other words, we train students to be better musicians in a field where the bulk of the world's music actually happens.

This program at Bishop's is modeled on our current classical one, sharing certain core courses, and can be favourably compared to similar programs offered across North America. Our program is designed to cover both the practical and academic aspects of the contemporary music streams of popular culture, including jazz, rock, and pop music, through a guided instruction in literature, theory, composition, ensemble and instrument/voice performance study.

Required: 48 credits

Any 3 from MUS 101, MUS 102, MUS 103,
MUS 104 & MUS 109 ..... 9 credits
MUS 121, MUS 122 & MUS 221 ..... 3 credits
MUS 131, MUS 132 & MUS 231 ..... 9 credits
MUS 290 ..... 3 credits
MUS 233 ..... 3 credits
4 Ensemble Courses ..... 4 credits
MUS 172, MUS 173, MUS 272 & MUS 273 ..... 8 credits
Music Electives ..... 9 credits

Year 1 Requirements (17 credits)

Any 1 from MUS 101, MUS 102, MUS 103,
MUS 104 & MUS 109 ..... 3 credits
MUS 121 & MUS 122 ..... 2 credits
MUS 131 & MUS 132 ..... 6 credits
Any 2 Ensemble Courses
(taken from MUS 180 – MUS 189) ..... 2 credits
MUS 172 & MUS 173 ..... 4 credits

Year 2 Requirements (19 credits)

Any 2 from MUS 101, MUS 102, MUS 103,
MUS 104 & MUS 109 ..... 6 credits
MUS 221 ..... 1 credit
MUS 231 ..... 3 credits
MUS 233 or MUS 290
(offered on a rotation basis) ..... 3 credits
Any 2 Ensemble Courses
(taken from MUS 280 – MUS 289) ..... 2 credits
MUS 272 & MUS 273 ..... 4 credits

Other Requirements (12 credits)

These remaining music credits may be taken at any time during the student's stay at Bishop's. Majors and Minors are entitled to take more than the required number of music credits.

V. B.A. Minor in Popular Music Studies (Jazz, Pop/Rock)

Required: 24 credits

Any 2 from MUS 101, MUS 102, MUS 103,
MUS 104 & MUS 109 ..... 6 credits
MUS 121 ..... 1 credit
MUS 130 & MUS 131 or
MUS 131 & MUS 132 ..... 6 credits
Any 2 Ensemble Courses
(taken from MUS 180 – MUS 189) ..... 2 credits
MUS 172 & MUS 173 ..... 4 credits
Music Electives ..... 5 credits

VI. Double Major: Secondary Education and Music

Refer to page 62 in the calendar for course requirements.

VII. Arts Administration: Music

Refer to page 72 in the calendar for course requirements.

VIII. Certificate in Musical Studies

The Certificate in Musical Studies is designed for the part-time or community student who does not wish, or is not able, to take a full degree program. It allows the flexibility to focus on history and literature, theory, and where teaching resources permit, performance.

Students may take courses in the regular Fall, Winter or Spring sessions in Lennoxville, or at the Knowlton campus. Courses taken in the certificate program may be transferred later to a minor or major within a degree program in Music at Bishop's University; however, students may not be enrolled in a certificate program and degree program at the same time.

Admissions Requirements

(See Regulations for Certificate Programs.)

Required: 30 credits

MUS 130*, MUS 110, MUS 111 *If necessary

The remaining credits may be taken from the following list of courses, offered by the Department in rotation:

Music Literature	MUS 103, MUS 104, MUS 106, MUS 107, MUS 108, MUS 112, MUS 114, MUS 200, MUS 201, MUS 205
Music Theory	MUS 131, MUS 132, MUS 231, MUS 238, MUS 332
Music History	MUS 240, MUS 241, MUS 242, MUS 244, MUS 245, MUS 246, MUS 247
Music Performance*	MUS 170/ MUS 171, MUS 270 / MUS 271, MUS 370/ MUS 371

**A supplementary instruction fee is levied for all individual performance courses.*

Ensemble courses will be permitted upon consultation with the Department

THEORY AND COMPOSITION

MUS 121a Introduction to Musical Skills I 1-2-0
An introduction to the fundamental skills of musicianship, including ear-training, sight-singing and basic keyboard skills.

MUS 122b Introduction to Musical Skills II 1-2-0
Continuation of MUS 121a

MUS 130ab Rudiments of Music Theory 3-3-1
An introduction to basic musical literacy, including rhythmic notation, reading in all modern clefs; spelling scales, intervals and triads; and the structure of the tonal system.
This course cannot be counted toward a Major or Honours in Music.

MUS 131a Materials of Music I 3-3-2
Review of the rudiments of music; the study of diatonic harmony, melody and voice-leading in the common-practice era.

MUS 132b Materials of Music II 3-3-2
Continuation of MUS 131a

MUS 221a Intermediate Musical Skills 1-2-0
Essential musicianship skills extended to chromatic language, including ear training, sight-singing and keyboard harmony.

MUS 222b Advanced Musical Skills 1-2-0
Continuation of MUS 221a

MUS 231a Materials of Music III 3-3-0
This course will focus on advanced diatonicism and chromaticism in the common-practice era through a study of applied chords, modulation, mixture and other chromatic harmonies.

MUS 233ab Materials of Popular Music 3-3-0
This course will focus on the development of theoretical knowledge as well as practical analytical and writing skills necessary for a deeper understanding of both the Jazz and Blues styles. Repertoire for study will include jazz standards as well as blues forms. The art of improvisation in each of these styles will also be introduced.

MUS 238ab Composition I 3-3-0
This course will focus on various approaches to writing music through the investigation of different pitch language systems. Contemporary uses of rhythm, form, texture, colour and dynamics will also be studied with the goal of creating an original work.
Prerequisite: MUS 131 or approval of instructor

MUS 290a Improvisation I 3-3-0
This course will develop the skills necessary for jazz/pop music improvisation.

MUS 291ab Song and Instrumental Writing 3-3-0
This course provides the student with a history of the development of popular song styles from the early 20th century onward. There will be a study of the various stylistic approaches by different composers of this era as well as an introduction to the composition of songs in each style.

MUS 292ab Arranging and Scoring for Jazz and Pop Music 3-3-0
This course will provide students with the skills that will enable them to arrange pop and jazz tunes for a variety of instrumental/vocal ensembles.

MUS 293ab The Music Profession 3-3-0
This course will introduce students to the practical side of the music business. Topics covered will include résumé building, recording a demo CD, gigging, grant applications and effective marketing techniques.

MUS 332ab Advanced Harmony 3-3-0
This course stresses both the writing and analysis of advanced chromaticism in the common-practice era and the twentieth century. Music of Schubert, Brahms, and beyond.
This course is not available to students who have previously completed MUS 232.
Prerequisite: MUS 231

MUS 333ab Compositional Strategies in Formal Design 3-3-0
Principles of formal analysis. Small to large level form is examined with respect to properties of harmony, melody, voice-leading, rhythm, texture and timbre.
Prerequisite: MUS 131

MUS 335ab Compositional Strategies in Counterpoint 3-3-0
An introduction to the writing of counterpoint. Fuxian species, Baroque dance forms, invertible counterpoint, motivic development, and the 2- and 3-part invention.
Prerequisite: MUS 132

MUS 337ab Orchestration 3-3-0
An introduction to the art of orchestration which includes study of all the major orchestral instruments and how to effectively combine them.
Prerequisite: MUS 131

MUS 338ab Composition II 3-3-0
A study of advanced compositional techniques and forms. Students will compose for a variety of chamber music media in short exercises with the goal of creating an extended work as a major project.
Prerequisite: MUS 238ab

MUS 435 Thesis: Composition or Music Theory 6-3-0
An individual topic to be chosen by the honours student in consultation with the department. Concert music or jazz options are available.

MUS 438ab Composition III 3-3-0
A continuation of MUS 338.
Prerequisite: MUS 338

MUSIC LITERATURE

MUS 101ab Rock 101 3-3-0
This course offers a survey of rock music from its origins and covers the most important songs of the fifties, sixties and seventies. Influences from blues, pop and other genres will be investigated to gain a deeper understanding of how this phenomenal movement changed the music world forever.

MUS 102ab Music for the Movies 3-3-0
This course will survey the history of film music and its major composers. Examples from North American, foreign and animated films from every decade beginning in the 1930s will offer the student a well-rounded introduction to this fascinating art form.

MUS 103ab Classic Jazz 3-3-0
This course offers a chronological study of the different eras that have marked the evolution of Jazz in America. Analysis of form, melody, harmony, rhythm and improvisation techniques of the major works of the masters will be covered.

MUS 104ab Modern Jazz 3-3-0
This course offers a study of the different genres that have marked the evolution of Jazz in America since 1945. Analysis of form, melody, harmony, rhythm and improvisation techniques of the major works of the masters will be covered.

MUS 106ab Song 3-3-0
The singer's repertoire is surveyed and analysed. Special attention is given to German and French song literature of the nineteenth century as well as art song in England and France. Among the composers considered will be Schubert, Schumann, Brahms, Fauré, Duparc, Debussy, Britten and Ives.

MUS 107ab Opera 3-3-0
Is it music or is it drama? The balance changes through the ages, but opera is always lyrical, emotional, sensational. This course will trace the evolution of opera from the earliest experiments in 1600 through the elaborate productions of the High Baroque; the birth of modern opera with Gluck and Mozart; the Golden Age of Italian bel canto from Rossini and Bellini through Verdi and Puccini; German opera from Beethoven to Wagner; and the new aesthetics of the 20th century, with Strauss, Berg and Britten.

MUS 108ab Choral and Sacred Music 3-3-0
A survey of choral music from its foundations in Gregorian Chant up to the present: the serene polyphony of the Renaissance; the Protestant Reformation with the chorale and related genres; oratorio, cantata, and passion; hymns; secular and sacred music in the 19th and 20th centuries, including avant-garde treatment of the voice.

MUS 109ab Music and Theatre 3-3-0
This course will cover the field of popular musical theatre from its origins in 19th-century comic opera and operetta; to the Broadway musicals of Kern, Rogers and Hart/Hammerstein, Lerner and Loewe; the more sophisticated works of Bernstein and Sondheim; the spectacular shows of Andrew Lloyd Webber; and more recent Broadway offerings.

MUS 110a The Art of Listening I 3-3-0
An introduction to music for the non-major. After a brief study of music rudiments—rhythm, scales, basic concepts and terms—we will put these ideas into more concrete terms in a guided survey of the best of Western art music, from Gregorian chant up to the time of Beethoven. Meet Palestrina, Monteverdi, Purcell, Vivaldi, Bach, Handel, Mozart and Haydn, among others, and see how they fit into our musical past. Special attention is paid to the art of listening to, and understanding, the music of these composers.

MUS 111b The Art of Listening II 3-3-0
A continuation of the historical survey begun in Music 110a. We begin with the major Romantic composers, including Schubert, Schumann, Chopin, Verdi, Wagner, Brahms and Mahler. The course will continue with an examination of the 20th century, including early masters such as Debussy, Stravinsky, Schoenberg and Bartok, as well as more adventurous avant-garde fare: Cage, Varèse, Berio, Crumb and Steve Reich.

MUS 112ab Music for Orchestra 3-3-0
Follow the history of music written for orchestra: concerto, symphony, symphonic poem and related genres. The concerto repertoire begins in 17th-century Italy with Corelli, evolves with Vivaldi and Bach, then passes through the matchless works by Mozart and into the great virtuosic creations of the 19th century. On the symphonic side, we move from Haydn and Beethoven to the great melodists and orchestrators of the Romantic era: Berlioz, Schumann, Brahms, Liszt, Strauss and Mahler. 20th-century creations by Bartok, Stravinsky and others will round out this survey.

MUS 114ab Recital Music 3-3-0
This course will survey recital repertoire from the 17th to the 21st centuries. Included will be solo repertoire for harpsichord and piano, and chamber music such as the trio sonata, string quartet and related genres. Emphasis will be placed on the most important contributors to the repertoire: J.S. Bach, Mozart, Beethoven, Schubert, Chopin and Brahms, as well as on works of the 20th & 21st centuries. An effort will be made to coordinate course content with recitals given in the Music Department.

MUS 200a Major Composers I 3-3-0
An intensive study of the biography, works and significance of one or more major composers of Western art music. May be counted towards fulfillment of the degree requirements for Music History.

MUS 201b Major Composers II 3-3-0
An intensive study of the biography, works and significance of one or more major composers of Western art music. May be counted towards fulfillment of the degree requirements for Music History.

MUS 205ab Canadian Music 3-3-0
Is there such a thing as Canadian music? Take this course and find out. We will look at music composed in Canada by the earliest French settlers; concert life in the 18th and 19th centuries; folk music saved in oral traditions across the country; and composers of the 20th century who draw on both folk and contemporary art music traditions. Get to know your national musical heritage, including Joseph Quesnel, Calixa Lavalée, Healey Willan, Claude Champagne, Harry Somers, John Weinzweig, and many others.

MUS 300ab Introduction to Music Research and Bibliography 3-3-0
A seminar course designed to introduce students to bibliography and research techniques in the fields of music history and literature. Practical research and writing skills are taught in association with an introduction to the library and its resources: reference works, histories, catalogues, periodicals and other holdings.
Required for all Honours students

PSY 292ab Psychology of Music 3-3-0

MUSIC HISTORY

MUS 240ab Music in the Middle Ages 3-3-0
The earliest written music of the European tradition up to about 1450. Gregorian chant and liturgy, early song traditions such as troubadours and Meistersingers, liturgical drama, early polyphony, motets and polyphonic songs from France, Italy and England. The first known great composers—Hildegard of Bingen, Leonin and Perotin, Machaut, Ciconia and Dunstable.

MUS 241ab Music of the Renaissance 3-3-0
Music from 1450-1600: the new humanist aesthetic of music. The evolution of the arts of counterpoint and imitation; the Golden Age of choral music, from Masses and motets to songs and madrigals; early developments in instrumental music. Dufay, Josquin, Palestrina, Lassus, Gesualdo, Byrd, Gabrieli, etc.

MUS 242ab Music of the Baroque 3-3-0
The period from 1600 to 1750 sees the invention of opera, the emergence of instrumental music, and the development of national styles in Italy, France and Germany. New genres include oratorio, cantata, trio sonata, concerto, dance suite, fugue; music for lute, harpsichord and organ. Monteverdi, Corelli and Vivaldi; Lully, Rameau and Couperin; Schutz, Buxtehude and J.S. Bach; G.F. Handel.

MUS 244ab Music of the Early Twentieth Century 3-3-0
The development of music from the turn of the century to the Second World War. The bewildering variety of musical styles in this era will be examined: impressionism, expressionism, neo-classical and neo-romantic, nationalist and radical; Debussy and Ravel, Schönberg and his followers, Stravinsky, Bartok, Hindemith, Prokofiev and Shostakovitch, Ives and Varèse

MUS 245ab Music since 1945 3-3-0
A survey of the principal developments in Western art music since the Second World War. Included in this study are electronic music, computer music, aleatory, total serialism, minimalism and post-modernism.

MUS 246ab Classical Music 3-3-0
This course will cover the period from 1740 up to the death of Beethoven. An investigation of the roots of Classical style will be followed by a study of the three greatest composers of the era—Haydn, Mozart and Beethoven—and their contemporaries. Evolution of sonata form; impact of the piano; new genres like the symphony and string quartet; modern opera.

MUS 247ab Romantic Music 3-3-0
Music in the 19th century: new genres such as the lied, piano miniature and symphonic poem; new concepts such as program music, chromatic harmony, cyclic unity, virtuosity and nationalism. Large scale, big emotions and great tunes. Composers include Schubert, Chopin, Schumann, Liszt, Brahms, Wagner, Verdi, Mahler, etc.

MUS 310a Independent Studies I: Topics in Music History 3-1-0

MUS 311b Independent Studies II: Topics in Music History 3-1-0

MUS 445f Thesis: Music History 6-1-0
An individual topic to be chosen by the Honours student in consultation with the Department.

MUS 455f Thesis: Special Project 6-1-0
An individual topic to be chosen by the Honours student in consultation with the Department.

ENSEMBLE

Students may register for up to two ensembles in any given semester. Students outside the Music program may also participate in Ensembles and are encouraged to join.

See the Music Department chair for audition details.

MUS 180a Choral Ensemble I 1-3-0
Large choral group that explores repertoire from the 17th through the 20th century. Choral ensemble is required for all incoming music students except those accepted into MUS 182, MUS 184, 186 or 188. Admission by audition only.

MUS 181b Choral Ensemble II 1-3-0
See description under MUS 180a. Normally the second semester features a program of popular music.

MUS 182a Chamber Music Ensemble I 1-3-0
Small instrumental groups. Admission by audition only.

MUS 183b Chamber Music Ensemble II 1-3-0
See description under MUS 182a.

MUS 184a Jazz/Improvisation Workshop I 1-3-0
Mixed instrumental ensemble exploring the repertoires of popular music and jazz.

MUS 185b Jazz/Improvisation Workshop II 1-3-0
See description under MUS 184a.

MUS 186a Chamber Orchestra I 1-3-0
Formed fundamentally to explore the great repertoire for string orchestra, this group may also include winds, brass and percussion.

MUS 187b Chamber Orchestra II 1-3-0
See description under MUS 186a.

MUS 188a Rock/Pop Band I 1-3-0
These courses provide experience rehearsing and performing in a rock/pop band. Repertoire will be chosen from the rock and pop repertoire and each group will receive professional coaching. Entry by audition only.

MUS 189b Rock/Pop Band II 1-3-0
These courses provide experience rehearsing and performing in a rock/pop band. Repertoire will be chosen from the rock and pop repertoire and each group will receive professional coaching. Entry by audition only.

MUS 280a Choral Ensemble III 1-3-0
See description under MUS 180a.

MUS 281b Choral Ensemble IV 1-3-0
See description under MUS 180a.

MUS 282a Chamber Music Ensemble III 1-3-0
See description under MUS 182a.

MUS 283b Chamber Music Ensemble IV 1-3-0
See description under MUS 182a.

MUS 284a Jazz/Improvisation Workshop III 1-3-0
See description under MUS 184a.

MUS 285b Jazz/Improvisation Workshop IV 1-3-0
See description under MUS 184a.

MUS 286a Chamber Orchestra III 1-3-0
See description under MUS 186a.

MUS 287b Chamber Orchestra IV 1-3-0
See description under MUS 186a.

MUS 288a Rock/Pop Band III 1-3-0
See description under MUS 188a.

MUS 289b Rock/Pop Band IV 1-3-0
See description under MUS 188a.

MUS 380a Choral Ensemble V 1-3-0
See description under MUS 180a.

MUS 381b Choral Ensemble VI 1-3-0
See description under MUS 180a.

MUS 382a Chamber Music Ensemble V 1-3-0
See description under MUS 182a.

MUS 383b Chamber Music Ensemble VI 1-3-0
See description under MUS 182a.

MUS 384a Jazz/Improvisation Workshop V 1-3-0
See description under MUS 184a.

MUS 385b Jazz/Improvisation Workshop VI 1-3-0
See description under MUS 184a.

MUS 386a Chamber Orchestra V 1-3-0
See description under MUS 186a.

MUS 387b Chamber Orchestra VI 1-3-0
See description under MUS 186a.

MUS 388a Rock/Pop Band V 1-3-0
See description under MUS 188a.

MUS 389b Rock/Pop Band VI 1-3-0
See description under MUS 188a.

PRACTICAL STUDY

Individual practical study, which consists of private lessons on an instrument or in voice, is divided into two categories: courses required for completion of an Honours, Major, or Minor in Music, and courses taken as an elective, either by music students, or students outside the program. Required lessons are one hour in length, while those taken as an elective are 45 minutes in length.

**For all practical study courses, there is a fee surcharge levied each term. Please see fee schedule "Music Practicum" under "Other Fees".*

1. Required Performance Courses:

These courses are open only to Music Minors, Majors, and Honours students. There is no end of term jury for MUS 172, however all other required principle instrument performance courses include a jury exam.

MUS 172a/b Principal Instrument I **2-1-5**
Performance instruction on any classical or jazz instrument or voice. Attendance at studio recitals and Music Department concerts is a required element of this course.
Co-requisite with MUS 180, MUS 182, MUS 184, MUS 186, or MUS 188.

MUS 173a/b Principal Instrument II **2-1-5**
Description as for MUS 172 above. End-of-term jury exam is required.
Co-requisite with MUS 181, MUS 183, MUS 185, MUS 187, or MUS 189

MUS 272a/b Principal Instrument III **2-1-5**
Performing in studio recitals, attendance at Music Department concerts and end-of-term jury exam are required.
Co-requisite with MUS 280, MUS 282, MUS 284, MUS 286, or MUS 288.

MUS 273a/b Principal Instrument IV **2-1-5**
Description as for MUS 272 above.
Co-requisite with MUS 281, MUS 283, MUS 285, MUS 287, or MUS 289

MUS 372a/b Principal Instrument V **2-1-5**
Description as for MUS 272 above.
Intended for Music students enrolled in Performance Honours.

MUS 373a/b Principal Instrument VI **2-1-5**
Description as for MUS 272 above.
Intended for Music students enrolled in Performance Honours.

MUS 375a/b Instrument Techniques **2-1-5**
Introduction to performing, teaching, and maintenance techniques of orchestral instruments: strings, woodwinds, brass, percussion. Required for Double Majors in Music and Secondary Education (instrumental), and open to others with permission of the Department.

MUS 475f Recital **6-1-14**
Description as for MUS 172 above.
Students in Honours Performance must present a full recital at the end of the academic year. A written work on a topic chosen by the student in consultation with the Department must also be presented.
Open only to Music Students enrolled in Performance Honours, who have completed MUS 373 with a grade of at least 80%

2. Elective Performance Courses:

These courses are open to all Music students, and to students outside of the Music program after an initial audition.

Non-music students must consult with the Music Department **before they enroll in MUS 170.*

MUS 170a/b Elective Instrument I **1-3/4-5**
Performance instruction for either a principal or second instrument, which is not a program requirement. No jury exam is required.

MUS 171a/b Elective Instrument II **2-3/4-5**
A continuation of MUS 170. End-of-term jury exam is required.

MUS 270a/b Elective Instrument III **1-3/4-5**
See description under MUS 170.

MUS 271a/b Elective Instrument IV **2-3/4-5**
A continuation of MUS 270. Jury exam is required.

MUS 370a/b Elective Instrument V **1-3/4-5**
See description under MUS 170.

MUS 371a/b Elective Instrument VI **2-3/4-5**
A continuation of MUS 370. Jury exam is required.

Philosophy

Knowledge of the philosophical tradition is essential to a sound and liberal education. It lies at the heart of what Bishop's has understood historically and continues to embrace today as its educational mission.

In recognition of this, the Department of Philosophy offers a program designed to meet the needs of both specialists and those seeking to supplement their work in other disciplines. Honours and Majors follow a curriculum which emphasizes three broad areas: World Philosophy, Continental European Philosophy and the Western Philosophical Tradition. Advanced students may also pursue independent studies of special topics in greater depth. These offerings are supplemented by a series of introductory and cross-disciplinary courses designed to provide the background, skills and tools for a thoughtful, critical approach to a wide variety of problems and issues and delivered, for the most part, at a level accessible to the non-specialist.

The Program

The requirement for a Major in Philosophy is 48 credits. An Honours consists of 60 credits. Candidates for the Honours program must obtain an average of 70% on the best 60 credits in Philosophy in order to graduate with the Honours degree. In addition, these students will be required to write an Honours thesis (PHI 401, 6 credits). A minor consists of any 24 credits in philosophy.

Honours and Majors in Philosophy must have the following courses:

Any 3 of
LIB 210 Eros, Love and Desire
LIB 211 Empire
LIB 212 In Search of Justice
LIB 213 The Use and Abuse of Beauty
LIB 214 The Human Will and Nature
LIB 215 Ecstasy and Excess
LIB 216 Ultimate Concern
LIB 217 Space, Place & The Human Experience

(Lib courses beyond the three required courses for a Major and in all cases for a philosophy Minor count only if they are taught by a member of the Department of Philosophy)

Any 3 of
PHI 140 Introduction to Ethics
PHI 152 Introduction to Logic and Reasoning
PHI 170 Introduction to Philosophy of Being
PHI 171 Introduction to Philosophy of Knowledge
PHI 172 Introduction to Social & Political Philosophy

All 4 of
PHI 271 Socrates and Plato
PHI 272 Aristotle
PHI 260 Kant
PHI 254 Analytic Philosophy

Liberal Arts Honours and Majors with a Concentration in Philosophy must have the following courses:

Any 3 of
PHI 140 Introduction to Ethics
PHI 152 Introduction to Logic and Reasoning
PHI 160 Introduction to Existentialism
PHI 170 Introduction to Philosophy of Being

	PHI 171 Introduction to Philosophy of Knowledge
	PHI 172 Introduction to Social & Political Philosophy
All 4 of	PHI 271 Socrates and Plato
	PHI 272 Aristotle
	PHI 260 Kant
	PHI 254 Analytic Philosophy
Any 2 of	PHI 263 Hegel
	PHI 265 Nietzsche
	PHI 267 Heidegger
	PHI 324 The Philosophy and Politics of Karl Marx
	PHI 362 Phenomenology
	PHI 364 Postmodernism
	PHI 366 Critical Theory

The remaining 9 credits may be either Philosophy courses or Philosophy cognates (excluding Liberal Arts Philosophy cognates).

Philosophy Courses

General Introduction, Thesis and Independent Studies

PHI 140	Introduction to Ethics
PHI 152	Introduction to Logic and Reasoning
PHI 160	Introduction to Existentialism
PHI 170	Introduction to the Philosophy of Being
PHI 171	Introduction to the Philosophy of Knowledge
PHI 172	Introduction to Social & Political Philosophy
PHI 207	Independent Study I
PHI 208	Independent Study II
PHI 307	Independent Study III
PHI 308	Independent Study IV
PHI 401	Honours Thesis (6 credits)

World Philosophy

PHI 255	North American Philosophy *
PHI 256	Asian Philosophy *
PHI 258	Indian Philosophy *
PHI 355	Analysis Seminar *

Continental European Philosophy

PHI 263	Hegel
PHI 265	Nietzsche *
PHI 267	Heidegger *
PHI 324	The Philosophy and Politics of Karl Marx
PHI 362	Phenomenology *
PHI 364	Postmodernism *
PHI 366	Critical Theory *

The Western Philosophical Tradition

PHI 254	Analytical Philosophy
PHI 260	Kant
PHI 270	The Pre-Socratics *
PHI 271	Socrates and Plato
PHI 272	Aristotle
PHI 275	The Rationalists *
PHI 276	The Empiricists *
PHI 278	The Pragmatists *
PHI 370	Hellenistic Philosophy *
PHI 371	Medieval Philosophy *
PHI 374	Spinoza *

Problems, Special Interests and Service Courses

PHI 240	Topics in Business Ethics *
PHI 241	Philosophy and Sexuality *
PHI 243	Philosophy of Language and Hermeneutics *
PHI 244	Philosophy of Mind *
PHI 245	Philosophy of Science *
PHI 246	Philosophy of Art *
PHI 247	Philosophy and Film *
PHI 248	Philosophical Foundations of Feminism *
PHI 342	Seminar in Social and Political Philosophy
PHI 344	Metaphysics *

GENERAL INTRODUCTION, INDEPENDENT STUDIES AND THESIS

PHI 140b Introduction to Ethics 3-3-0
Discussion of some of the basic issues of ethics, including the nature of the will and the relation of self to society.

PHI 152 Introduction to Logic and Reasoning 3-3-0
This course introduces students to the history and practice of traditional syllogistic and modern formal logic. The principle texts are Artisotle's Prior Analytics and Wittgenstein's Tractatus.

PHI 160a Introduction to Existentialism 3-3-0
A survey of 20th century existential philosophy, with emphasis on the French tradition, drawing on works of Sartre, Camus and Marcel.

PHI 170a Introduction to Philosophy of Being 3-3-0
Discussion of the foundations of western metaphysics through the study of philosophers such as Plato, Aritstotle, Aquinas, Spinoza and Hegel.

PHI 171b Introduction to Philosophy of Knowledge 3-3-0
Discussion of the character of knowledge and perception, including topics such as the character of judgment, induction and deduction, identity and difference etc.

PHI 172b Introduction to Social and Political Philosophy 3-3-0
Since the execution of Socrates by the Athenian government in 399 B.C.E. the Western philosophical tradition has reflected seriously on the character of human community and the relationship of philosophy to it. This course will introduce the key themes of this long tradition of philosophical insight., especially as they pertain to the key institutions of community life: family, civil society and state.

PHI 207a Independent Study I 3-3-0

PHI 208b Independent Study II 3-3-0

PHI 307a Independent Study III 3-3-0

PHI 308b Independent Study IV 3-3-0

PHI 401f Honours Thesis 6 credits

WORLD PHILOSOPHY

PHI 254 Analytic Philosophy 3-3-0
Introduction to 20th century analytic philosophy drawing on works of Moore, Russell, Wittgenstein, Quine, Ayer, Strawson and Armstrong.

PHI 255 North American Philosophy* 3-3-0
This course examines the ways in which 'old world' philosophical trends – in idealism, phenomenology and postmodernism for example – have been appropriated and transformed by thinkers in Canada and the United States over the past two centuries.

PHI 256 / REL 254 Asian Philosophy* 3-3-0
This course introduces students to some of the principle thinkers of the Chinese and Japanese philosophical traditions with special attention to the founding contributions of Confucius and Lao Tzu.

PHI 258/ REL 258 Indian Philosophy* 3-3-0
This course introduces students to some of the principle themes and texts of the Indian philosophical tradition with special attention to the Upanishads, the Bhagavad Gita & class texts of Buddhism.

PHI 355 Analysis Seminar* 3-3-0
An in depth study of one of the major contributions to analytic philosophy (e.g. Strawsons Individuals, Quine's Word and Object, or Geach's Reference and Generality).
Prerequisite: 254a

CONTINENTAL EUROPEAN PHILOSOPHY

PHI 263b Hegel 3-3-0
A study of Hegel's *Phenomenology of Spirit* with reference especially to the dialectical method and the origin of the philosophy of history.

HI 265b Nietzsche* 3-3-0
This course examines the development of Nietzsche's aesthetic, ethical and political views. Text include *The Birth of Tragedy, The Gay Science, Beyond Good and Evil* and *The Genealogy of Morals.*

PHI 267 Heidegger* 3-3-0
This course surveys the long career of Martin Heidegger with special attention of his analysis of human being, his articulation of a post-metaphysical philosophy and his pioneer work in environmental philosophy.

PHI 324 / POL 324 The Philosophy and Politics of Karl Marx 3-3-0
A study of the philosophy and political theory of Karl Marx, with empahsis on Marx's theory of society, political economy and history. The course will consider a variety of Marx's tests, but focus on *Capital*, Volume 1.

PHI 362a Phenomenology* 3-3-0
An in depth study of one of the major contributions to phenomenology (e.g. Husserl's *Logical Investigations*, Heidegger's *Being and Time*, Merleau-Ponty's *Phenomenology of Perception)*.

PHI 364b Post-Modernism* 3-3-0
Discussion of recent philosophical critiques of modernity with reference especially to the question of whether the intellectual and social/political movements which have shaped the modern world give that world the resources for understanding itself genuinely. Texts will be drawn from Heidegger, Foucault and Deleuze and Derrida.

PHI 366 / POL 325 Critical Theory* 3-3-0
This seminar course will explore the development of Critical Theory from its roots in dialectical philosophy (especially Hegel and Marx), to its appropriation of psychoanalysis (expecially Freud and Lacan), to its engagement with contemporary politics, society and art. Authors studied may include Walter Benjamin, Theodor Adorno, Max Horkheimer and Herbert Marcuse.
Pre-requisite: POL 228 or POL 229, or one course in Philosophy.

THE WESTERN PHILOSOPHICAL TRADITION

PHI 254 Analytic Philosophy 3-3-0
Introduction to 20th century analytic philosophy drawing on works of Moore, Russell, Wittgenstein, Quine, Ayer, Strawson and Armstrong.

PHI 260 Kant 3-3-0
Consideration of epistemological and ethical issues in Kant's first two Critiques.

PHI 270a / CLA 270a The Pre-Socratics* 3-3-0
An in depth study of the origins of philosophy in the West with special attention to Anaximander and Heraclitus, Pythagoras and Parmenides, Leucippus and Democritus.

PHI 271a / CLA 271a Socrates & Plato 3-3-0
A study of the character and teaching of Socrates as portrayed in Plato's early and middle dialogues. Emphasis will be on theory of education.

PHI 272b / CLA 272b Aristotle 3-3-0
A study of selected works of Aristotle with special emphasis on logic, metaphysics, and the concept of substance.

PHI 275a The Rationalists* 3-3-0
A study of selected works of Descartes, Spinoza and/or Leibniz.

PHI 276b The Empiricists* 3-3-0
A study of the empiricist philosophers of the 17th and 18th centuries, with reference especially to theories of perception and knowledge, drawing on texts from Hobbes, Locke, Berkeley, and Hume.

PHI 278b The Pragmatists* 3-3-0
A study of selected works of Pierce, James and Dewey.

PHI 370a / CLA 370a Hellenistic Philosophy* 3-3-0
A study of selected Epicurean, Stoic, Skeptical and Neo-Platonic texts with reference especially to development of a philosophy of emotions and the elaboration of a systematic metaphysics.

PHI 371a Medieval Philosophy* 3-3-0
Exploration of the treatment of a range of philosophical issues prior to the Renaissance including: arguments for the existence of God, the relation between reason and revelation, the question of the eternity of the world, and the status of the universals. Texts will be drawn from Augustine, Boethius, Eriugena, Anselm, Alfarabi, Avicenna, Averroes, Bonaventure, Siger of Brabant and Aquinas.

PHI 374b Spinoza* 3-3-0
An in depth study of Spinoza's *Ethics* with reference especially to the novelty of its method, its relation to philosophies of the tradition and its subsequent influence.

PROBLEMS, SPECIAL INTERESTS AND SERVICE COURSES

PHI 240a Topics in Business Ethics* 3-3-0
An examination of ethical issues and responsibilities in the field of business surveying contemporary and traditional ethical theory and undertaking case studies of contemporary issues.

PHI 241 Philosophy and Sexuality* 3-3-0
Discussion of traditional theories of love and desire as a prelude to study of some contemporary theories of gender, sexuality and sexual politics.

PHI 243 Philosophy of Language and Hermeneutics* 3-3-0
This course will focus on the development of the hermeneutic philosophy of language whose origin dates to the late 18th century. The major figures studied will include Schleiermacher, Dilthey, Heidegger and Gadamer.

PHI 244 Philosophy of Mind* 3-3-0
Theories of mind including those developed by Aristotle, Descartes, Hume, Berkeley, Ryle, Strawson and Armstrong.

PHI 245b The Philosophy of Science* 3-3-0
An introduction to some basic issues in the history and philosophy of science with reference especially to: the origin and development of scientific method, the (in) commensurability of scientific paradigms, and the critique of scientific objectivity in contemporary social theory.

PHI 246b The Philosophy of Art* 3-3-0
A look at some attempts by major thinkers to account for the nature of art and beauty, focusing on texts of Plato and Aristotle, Kant and Hegel, Nietzsche and Heidegger.

PHI 247 Philosophy and Film* 3-3-0
This course will explore key philosophical themes through film. Students will combine viewing and discussion of film with the study of related philosophical texts.
Pre or Co-Requisite: Any course in philosophy or any course in the Film Studies minor.

PHI 248a Philosophical Foundations of Feminism* 3-3-0
An introduction to feminist thought from the Enlightenment to the present, looking at some feminist discussions in ethics, theory of knowledge, philosophy of language, and philosophy of science.

PHI 249 Philosophy of History* 3-3-0
The course looks at the philosophical treatment of history in thinkers such as Hegel, Marx, Neitzsche and Collingwood.

PHI 342 / POL 348 Seminar in Social and Political Philosophy 3-3-0
This course will typically consist of a detailed study of a great work of Western social and political philosophy. Students will be expected to present seminars and do research on the text itself, the social and political context in which it emerged and its implications for all serious inquiry into questions of society and politics.

PHI 344b Metaphysics* 3-3-0
An investigation of some basic metaphysical problems. These may include: the question of being, the historical development of metaphysical systems, issues and problems in ontology and epistemology, issues and problems in ontology and logic.

COGNATE COURSES

FIH 312a
FRA 262a
ESG 366b
LIB 210, LIB 211, LIB 212, LIB 213, LIB 214, LIB 215, LIB 216
POL 323a, POL 324b, POL 329b
PSY 342a, PSY 443b
SOC 122b, SOC 320
REL 232a, REL 233b, REL 252a, REL 253b, REL 330a, REL 331b

Religion

The study of religion, and Christianity in particular, has been a foundational part of Bishop's mission since the University's establishment in the mid-nineteenth century. Today, as a department in the Humanities division, we offer a broad range of courses in three major categories. **Our objective is to examine religion, not to espouse its practice or non-practice. Our approach is not faith-based.**

Courses in "Biblical Studies" invite students to become familiar with the sacred texts of the Jewish and Christian traditions, to examine the historical and cultural contexts of their origin and development, and to acquaint themselves with the critical, analytical, theoretical and historical tools for inquiry into these texts.

"World Religions" courses offer a knowledge of the sacred texts, traditions, rituals, beliefs and practices of the world's major religions. Students will come to appreciate the richness and depth that characterize these religions, which have elicited devotion from persons in every time and place.

The courses in the third category, "Approaches, Perspectives and Expressions," reflect the fact that religions and religious life do not exist in a vacuum, but are linked to other aspects of human life, including philosophical thought, psychological, social, political and economic dimensions, and literature and fine arts.

Because religions have significantly influenced, and been influenced by, the political, artistic, intellectual, social and economic life of cultures throughout history, the academic study of religion is an interdisciplinary pursuit. Students taking an Honours or Major program in Religion are encouraged to take courses in other, related fields, and conversely, students in other disciplines are welcomed in Religion courses in order to round out their understanding of their areas of concentration.

Students planning on entering professions such as education, social work, law, theatre, music, business, etc. may study religion in order to enhance their vocational and personal life. The study of religion may also, of course, be in preparation for some form of ministry.

The Program

Honours: For an Honours degree, 60 credits in Religion, with an average of at least 70% as calculated from the best 60 credits in the program (including cognates), is required. Students have the option of writing an Honours thesis in their final year. Students usually take the Religion Honours program if they plan to pursue graduate work.

Major: 48 credits in Religion

Minor: 24 credits in Religion

Honours and Majors are also required to fulfill the following minimum distribution requirements (36 credits; see the course lists for course descriptions):

Biblical Studies: 12 credits from: REL 112, REL114, REL 115, REL 118, REL 130, REL 131, REL 214, REL 215, REL 328

World Religions: 12 credits, including: 100 and 101, plus 6 credits from: REL 122, REL 124, REL 125, REL 126, REL 127

Approaches, Perspectives and Expressions: 12 credits, including: REL 232 and REL 233
OR
REL 330 and REL 331

Cognate Courses

The following courses in other departments are recognized as Religion cognates (this is not necessarily an exhaustive list; Religion students should consult the Chair of the Religion Department regarding any other courses offered by other departments or programs that they wish to take for Religion credit):

CLA 110ab	**The Art and Archaeology of Ancient Egypt**
CLA 113b	**Classical Mythology: The Greek Influence on Rome**
DRA 211ab	**Ritual and Theatre**
EDU 202b	**Teaching Ethics and Religious Culture**
ENG 320ab	**Sixteenth-Century Poetry and Prose: Exploration and Discovery**
ENG 350ab	**Early Victorian Poetry and Prose: Faith in an Age of Doubt**
HIS 253ab	**A History of Medieval Europe**
HIS 278ab	**A History of the Middle East to 1919**
HIS 279ab	**The Middle East in the Twentieth Century**
HIS 352ab	**History of the Arab-Israeli Conflict**
HIS 378ab	**War and Peace in the Middle East**
ITA/LIB 384	**Dante's Divine Comedy**
MUS 108ab	**Choral and Sacred Music**
PSY 298	**Zen and the Brain**

BIBLICAL STUDIES

REL 112ab The Traditions of Ancient Israel 3-3-0
An exploration of the world of the ancient Israelites, the forerunners of the Jewish people. Material from selected books of the Hebrew Bible (also called the Old Testament) will be combined with archaeological data and evidence from inscriptions to situate Israelite civilization within the socio-cultural context of the wider ancient Middle Eastern and Mediterranean worlds.
Professor Miller

REL 114ab Biblical Hebrew I 3-3-0
Introduction to biblical Hebrew grammar, and reading of simple texts.
Professor Miller

REL 115ab Biblical Hebrew II 3-3-0
More advanced biblical Hebrew grammatical concepts, and study of more challenging texts.
Professor Miller

REL 118ab From Creation to Covenant 3-3-0
An exploration of selected sections of the first five books of the Hebrew Bible/ Old Testament (Genesis, Exodus, Leviticus, Numbers and Deuteronomy) and of their modern study. The course will acquaint students with the major characters, themes and narratives of these foundational books, known collectively as the Torah/Pentateuch.
Professor Miller

REL 130ab / CLA 132ab Jesus and the Gospels 3-3-0
A course which introduces early gospels (both canonical and non-canonical), examined within the historical context of the Graeco-Roman world during the first and second centuries CE. Distinctive features and characteristics of each text will be examined in order to gain insight into their historical, social and political environments.
Professor Murray

REL 131ab Paul's Letters: The Earliest Christian Documents 3-3-0
A course which examines the life and teachings of Paul as reflected in the early Christian literature likely written by him, in his name and about him. Through investigation of the distinctive characteristics of the texts, insight will be gained into Paul's views on justification, faith, the Jewish law, the Jewish people, the role of women in the early Church, and into his impact on the emergence of Christianity in the Roman Empire.
Professor Murray

REL 205f Study Tour of Biblical Israel 6-3-0
This six-credit course explores the historical, archaeological and cultural contexts of the origin and development of the Jewish and Christian traditions. After preliminary lectures on campus, students will spend 10-12 days travelling in Israel and visiting the major archaeological sites pertinent to Judaism (and its precursor, ancient Israelite religion) and Christianity.
Professor Murray and Professor Miller

REL 214ab Israelite Mythology and Cultic Practice 3-3-0
An examination of mythology and cultic practices within Israelite society, as reflected in the Hebrew Bible/Old Testament. Extra-biblical texts and archaeological evidence will be used to contextualize the biblical material. Topics include: the origins of the Israelite god Yahweh; monotheism and polytheism; goddess worship; magic; child sacrifice.
Professor Miller

REL 215ab History and Legend in the Hebrew Bible/Old Testament 3-3-0
An examination of historical accounts concerning the Israelites in the Hebrew Bible (also called the Old Testament), with a view to assessing their historical authenticity. Extra-biblical texts and archaeological evidence will be used to contextualize the biblical material and to evaluate its claims. Topics include: the Patriarchs (Abraham, Isaac and Jacob); Joseph in Egypt; the Exodus; the Israelite settlement in Canaan; David and Goliath; the United Monarchy under David and Solomon.
Professor Miller

REL 311ab Advanced Study in Biblical Texts 3-3-0
This seminar course closely examines selected biblical texts with special reference to context and (re)interpretation.

REL 328ab Christian Origins I 3-3-0
This seminar course surveys the diverse portraits of Jesus of Nazareth reflected in early Christian literature, in the modern scholarly quest for the historical Jesus, and in film. The social and cultural forces that forged the earliest images of Jesus will be examined.
Prerequisite: REL 130 or REL 131 or permission of instructor
Professor Murray

REL 329ab Christian Origins II 3-3-0
This seminar course explores a variety of Christian and Jewish texts in order to understand the complex relationship between Judaism and Christianity, within the broader historical context of the Roman Expire.
Prerequisite: REL 130 or REL 131 or permission of instructor
Professor Murray

WORLD RELIGIONS

REL 100ab Western Religions 3-3-0
An introduction to Western religious traditions (Zoroastrianism, Judaism, Christianity and Islam). In addition to addressing the historical evolution, religious practices, writings, fundamental concepts, beliefs and cultural expressions of each of these traditions, the course will also consider methodological issues pertaining to the study of religion as an academic discipline.
Professor Miller

REL 101ab Eastern Religions 3-3-0
An introduction to Eastern religious traditions (Hinduism, Buddhism, Jainism, Sikhism and Shinto). In addition to addressing the historical evolution, religious practices, writings, fundamental concepts, beliefs and cultural expressions of each of these traditions, the course will also consider methodological issues pertaining to the study of religion as an academic discipline.
Professor Miller

REL 120ab / CLA 112ab Ancient Greek Mythology 3-3-0
The origin and development of Greek mythology, and the importance of myths in understanding ancient literature and religion: theories of myth, cult and ritual, mystery religions, the epic tradition. Greek sources are read in translation.
Not open to students with credit in CLA 212, except to replace the earlier grade.

REL 122ab/ CLA 122ab Ancient Mediterranean Religions 3-3-0
An introduction to Mediterranean religions from the time of Alexander the Great (356–323 BCE) to the emergence of Christianity as a prominent Roman religion in the late second century CE, including Mystery religions, Zoroastrianism, Judaism, Mithraism, popular philosophical expressions of piety such as Stoicism and Epicurianism, as well as astrology, magic, dream analysis and alchemy.
Professor Murray

REL 124ab Hinduism: The Many Faces of the Divine 3-3-0
A study of Hinduism in its infinite variety from earliest times to the present. Topics include: the Indus Valley Civilization; early Vedic religion, its myths and gods; the *Upanishads*; Brahmanism; the *Ramayana* and the *Mahabharata*; the caste system; Vaishnavism, Saivism and goddess worship.

REL 125ab Buddhism: The Middle Way 3-3-0
The origins of Buddhism in its native India and its spread throughout many countries of the East. Topics include: the relationship of Buddhism to Hinduism and Jainism; the development of the monastic order, principal teachings and practices; meditation; ritual; study of major writings and modern developments.

REL 126ab Judaism: A Covenant With God 3-3-0
An introduction to the history, literature, ideas and practices of Judaism from its biblical origins to the present. Topics include: the major festivals and High Holidays; Torah and Talmud, *mitzvah* and *midrash*; philosophers of Judaism; Kabbalah and the mystical tradition; temples and synagogues; Rabbinic Judaism; Orthodox, Conservative and Reform; dietary and religious practices; women and the rabbinate; rites of passage; the Holocaust; the modern state of Israel and messianism.

REL 127ab Islam: Submission to Allah 3-3-0
The history, literature, ideas and practices of Islam from its origins to the present. Attention is focused on pre-Islamic Arabia; the life, example and practices of the Prophet Muhammad; the Qur'an; the caliphate and the *ummah*; Sunnah and Hadith; the Five Pillars and worship; the Shariah; Sufism and the mystical tradition; Sunni and Shiite; women in Islam; art and architecture in Islam; Islam and modernity.

REL 238a / CLA 238a Greece: Land of the Gods 6-3-0
This six-credit course examines the sacred art and architecture of ancient Greece from Mycenae to Byzantium on site in Greece. Offered in the Spring semester. After preliminary lectures on campus students will spend two weeks traveling to the major sacred sites of mainland Greece. Travel plans must be finalized by the middle of January prior to departure in May. Contact the Classics department for information.

REL 239ab The Prehistoric Origins of Religion 3-3-0
This course traces the development of spiritual and religious beliefs from the Upper Paleolithic period (Old Stone Age) through the origins of seed agriculture and animal domestication in the Neolithic period, to the rise of cities and civilization about 5,000 years ago. The course will begin by discussing the nature of spiritualism and religion, and then continue with an overview of the evidence for the spiritual and religious practices of our more recent ancient hominid ancestors, Homo sapiens neanderthalensis and Homo sapiens sapiens. The last part of the course will concentrate on the way religious beliefs changed from the time of Stone Age hunters and gatherers, who lacked writing and worshiped in natural settings, to the first urban dwellers who worshiped in shrines and great temples and were able to record their religious beliefs and practices.

REL 254ab /
PHI 256 Asian Philosophy 3-3-0
This course introduces students to some of the principle thinkers of the Chinese and Japanese philosophical traditions with special attention to the founding contributions of Confucius and Lao Tzu.

REL 258ab /
PHI 258 Indian Philosophy 3-3-0
This course introduces students to some of the principle themes and texts of the Indian philosophical tradition with special attention to the Upanishads and the Bhagavad Gita.

REL 280ab /
CLA 280ab Roman Religion 3-3-0
This course examines the religion of the ancient Roman people, following the traditions and changes from the 8th century BCE to the Imperial period. Roman religion was very different from the monotheistic religions with which many of us are familiar today, but it was also significantly different from the mythology of the ancient Greeks, despite the Romans' willingness to absorb and adapt the Greek myths. Topics to be studied in this course will include the Roman concept of divinity, beliefs about the dead, religious and cult ritual, senatorial and imperial control of religion, emperor worship, divination and prophesy, festivals, and Roman responses to the introduction of foreign religions.

APPROACHES, PERSPECTIVES AND EXPRESSIONS

REL 107ab /
CLA 107ab Archaeology of the Middle East 3-3-0
This course is an introduction to the methods and terminology of archaeology used in the eastern Mediterranean region of Syria-Palestine. Students will gain some familiarity with the methods and techniques of archaeological research, and an overview will be provided of the material remains of the cultures of Syria-Palestine (including the ancient Israelites, Philistines, Canaanites, Moabites and others), in order to illuminate the religious beliefs, art and cultural activities of these groups in the centuries preceding the Common Era.

REL 109ab /
CLA 109ab Egypt and Mesopotamia: From the Rise of Civilization to the Persian Conquest 3-3-0
The region of Mesopotamia (modern Iraq) saw the development of the first complex urban society more than 5,000 years ago. About the same time, a second complex society, Egypt, was forming along the banks of the Nile in Africa. Employing a mixture of historical texts and archaeological research, this course will give an overview of ancient Egypt and Mesopotamia covering the time from the Neolithic Period (ca. 8500 BCE) to the Persian conquest in the sixth century BCE. It will begin with the formation of the first civilizations, the development of agriculture, writing, cities and major building projects in the form of temples and pyramids. In addition to examining the lives and political careers of important historical characters, the course will also explore the religious beliefs, and techniques of astronomy, medicine and warfare prevalent at the time.

REL 148ab Psychology of Religion 3-3-0
An introduction to major theoretical approaches to the psychological understanding of religion: pragmatism (William James), Psychoanalysis (Sigmund Freud, Carl Jung, Erik Erikson) and Humanism (Gordon Allport, Abraham Maslow).
Professor White

REL 149ab Sociology of Religion 3-3-0
An introduction to the understanding of religion as a social phenomenon: a discussion of the views of Ludwig Feuerbach, Karl Marx, Emile Durkheim, Max Weber, Peter Berger and Robert Bellah.
Professor White

REL 200ab Politics and Religion 3-3-0
This course examines the intersection between extremist religious beliefs and political power, predominantly but not exclusively those cases in which violence and serious conflict have arisen. Possible topics include: radical Zionist settlers in the West Bank; violent Hindu nationalism in India; Christian evangelicals in the United States; Islamist organizations (e.g., Al Qaeda and the Taliban); the quest to establish Khalistan (an independent homeland in India) by militant Sikhs.
Professor Miller

REL 203ab /
CLA 206ab Early Christian Art and Architecture 3-3-0
This course examines the ways in which the Christians adapted elements from Greek, Roman and Near Eastern art and architecture to their religious beliefs and requirements and also studies the development of this new Christian art in the Byzantine Empire. Major topics include: Catacomb art, early Christian and Byzantine architecture, mosaic and painting, manuscript illuminations, textiles and the minor arts.

REL 204ab /
CLA 204ab Women in Religion 3-3-0
An investigation of the religious lives of early pagan, Jewish and Christian women in the context of the Graeco-Roman world. Literary and epigraphical sources from the fourth century BCE to the third century CE are analyzed in order to determine women's roles, rites and practices, with special attention to constructions of gender in the Graeco-Roman world.
Professor Murray

REL 206ab Apocalypse Then and Now 3-3-0
It's the End of the World as We Know It… Whereas cosmic time in Eastern religious traditions is generally seen as cyclical, with recurring phases of creation and destruction, in Western-based religions such as Judaism, Christianity and Islam it is viewed as linear, with a single creation and a final destruction of this present world – the Apocalypse. This course will look at the sacred texts that underpin apocalyptic concepts in established Western religions (e.g., the biblical books of Daniel and Revelation), and examine how apocalyptic beliefs have been given expression in these traditions. Some consideration will also be given to End Time beliefs in more recent sects and cults (e.g., the Heaven's Gate group and the Branch Davidians).
Professor Miller

REL 207ab Sex and Religion 3-3-0
This course provides an overview of topics in which issues of sex and sexuality intersect with particular Eastern and Western religious traditions. The course is selective rather than comprehensive. Topics that could be covered include: menstruation and early sexuality; heterosexuality; contraception; homosexuality; same-sex marriage; celibacy; asexuality; sex and the sacred. Attitudes, traditions and regulations pertaining to these topics will be explored from various religious perspectives through readings and films.
Prerequisite: REL 100 or REL 101 or permission of instructor
Professor Murray

REL 208ab /
LIB 216 The Divine and Ultimate Concern 3-3-0
The divine is that about which we are "ultimately concerned"—so said theologian Paul Tillich of Union Seminary in New York. Is this just a last-ditch attempt to salvage faith and spirituality in the midst of charges that religion is, at best, an "opiate of the masses" (Marx) and, at worst, "patently infantile" (Freud)? Or again, is the role of religion being taken over by its long time sister in spirit—art? This course will explore the troubled and passionate place of religious experience and the aesthetic in Western civilization.

REL 232a Philosophy of Religion I 3-3-0
The subject matter of this course consists of philosophical arguments for the existence of God. Lectures and discussions will be based on original texts (in translation): Thomas Aquinas's five proofs and the ontological argument in its classical (Anselm) and modern formulations. The modern and much debated argument from design will also be discussed. The class will also learn the standard critiques of those arguments by David Hume, Immanuel Kant and others. If time allows, this will be followed by an analysis of the problem of evil as counting against belief in the existence of God.
Professor White

REL 233b Philosophy of Religion II 3-3-0
This course focuses on two issues: (1) the problem of evil – if there is a God who is perfectly good and loving, omnipotent and omniscient, why do people suffer?; (2) the problems of religious knowledge, understanding and discourse – what, if anything, can one know of God, is talk of God meaningful and, if so, how? How might religious texts be interpreted and understood? Subjects include: the classical theory of analogy; modern empiricism; contextual semantics; recent hermeneutical (interpretation) theory.
Professor White

REL 234ab / POL 236 Introduction to Middle Eastern Politics 3-3-0
The course will focus on the forces that have shaped current Middle Eastern politics: particularly the growing influence of Islam and Islamic fundamentalism on political life and thought; the enduring legacies of westernization, colonialism and secular nationalism; and the Arab-Israeli conflict. Arriving at an understanding of Middle Eastern politics in this course will also entail study of the challenges modernizing states, parties and leaders are confronting today, and the profound impact of Western interests and policies on the region.

REL 236ab / CLA 236ab Death and Dying in the Ancient World 3-3-0
This course explores the myths, rituals and beliefs associated with death and dying in antiquity. Topics to be covered include: myths associated with the afterlife; books of the dead; magic and death rituals; understandings of heaven, hell and judgment.
Prerequisite: REL 100 or REL 101 or REL 122 or permission of instructor
Professor Murray

REL 237ab Film and Religion 3-3-0
This course employs film to study religion, and religion to study film. Different genres of film will be used to explore various issues, dimensions and expressions of religion, while images, metaphors and teachings found in religion will be employed to illuminate the material portrayed in film.
Professor Murray

REL 241 / CLA 241 The Archaeology of the Transjordan: Archaeological Field Methods 6-6-0
Students registered in this course will participate in a six-week archaeological expedition to Jordan. Working under the supervision of professional archaeologists, students will be involved in the excavation and recording of artifacts recovered at Khirbat al-Mudayna, Jordan, as part of the Wadi ath-Thamad Excavation Project. Students will learn to take elevations, draw top plans and baulk sections, write daily and weekly field reports, and related activities. During the season, students will take part in the educational program of the expedition, which will include seminars, lectures by visiting scholars on the archaeology and history of Jordan, plus field trips to museums, neighbouring excavations and major sites.

REL 302ab Of Latter-day Saints and Modern-day Prophets: New Religious Movements 3-3-0
In the past two centuries, a number of new religious groups claiming a significant number of adherents have emerged, joining long-established religions such as Judaism, Christianity, Islam, Hinduism and Buddhism in the global religious tapestry. Some of these groups are recognizably offshoots of much older religious traditions while others are entirely new entities, with only a tangential connection to what has gone before. This seminar course will examine the roots and development of some of these groups, which scholars have generally called "New religious Movements." Possible movements studied will include The Church of Jesus Christ of Latter-day Saints (i.e., Mormonism), The Holy Spirit Association for the Unification of World Christianity (i.e., the "Moonies"), Scientology, Bahá'í, The Jehovah's Witnesses, Christian Science and the Quebec-based Raëlian Movement.

REL 330a Philosophy of Religion and Theology I 3-3-0
A seminar in which students prepare and present papers on selected issues and texts in theology and the philosophy of religion. The subjects are analyzed and discussed by the class. It is recommended that students enrolled have previously taken courses in religion or philosophy.
Professor White

REL 331b Philosophy of Religion and Theology II 3-3-0
A seminar in which students prepare and present papers on selected issues and texts in theology and the philosophy of religion. The subjects are analyzed and discussed by the class. It is recommended that students enrolled have previously taken courses in religion or philosophy. However, students need not have taken REL 330 in order to take this course.
Professor White

REL 332ab / CLA 332ab Magic and Divination in the Ancient Near East 3-3-0
Since the 19th century, magic and divination have been subjects of great scholarly interest. This seminar course will examine how these phenomena were manifested in the region of what is today called the Middle East. We will also look at the supposed polemic against magic and divination in the Hebrew Bible (Old Testament), where calling someone a magician or diviner was a strategy for social control and definition, serving as an element in the construction of views about legitimate and illegitimate religious authority.
Professor Miller

REL 335ab / CLA 335ab Sacred Space in the Ancient World 3-3-0
How did the ancients experience their surroundings? How did their conceptions of space and place affect their relationships with their deities, their ancestors, and each other? From lofty temples to humble shrines, scared mountains to grottoes, we will explore the intimate connection between sacred places and the development of ancient identity. Archaeological and literary data, as well as modern theories of space and place, will be examined.
Prerequisites: At least two Classics courses or permission of the instructor.

INDEPENDENT STUDIES

REL 300a Independent Studies I 3-3-0

REL 301b Independent Studies II 3-3-0

REL 402f Honours Thesis 6-3-0
A full-year (two-semester) course in which the student does guided research into a subject, produces a written thesis and, ultimately, gives an oral defence of the thesis.
Prerequisite: Departmental acceptance of the thesis proposal

Division of Natural Sciences and Mathematics

The Division of Natural Sciences and Mathematics offers a diverse range of courses, programs and degrees (B.Sc., B.A., M.Sc.) in Biochemistry, Biological Sciences, Chemistry, Computer Science, Environmental Science, Mathematics and Physics.

Students enrolled in the experimental science classes receive extensive laboratory experience. Laboratories are well equipped and laboratory courses are instructed by the regular faculty. Each department has its own computer facilities and dedicated study rooms. Laboratories and classes tend to be small (often less than 20) and students are able to obtain essential feedback from Professors. The Division also offers students free help in learning mathematics/statistics, physics and computer science through Help Centres staffed with upper year students and/or professional tutors, under the supervision of Faculty members. The Bishop's University Astronomical Observatory is also available for graduate and undergraduate research as well as for public viewing.

Graduates from the Division pursue careers in many diverse fields. In recent years these careers have included, but are not limited to: medicine, veterinary medicine, dentistry, biomedical research, engineering, actuarial science, statistics, software engineering, pharmacology, physiotherapy, secondary and primary school science teaching and the chemical industry.

Degrees and Programs

Detailed descriptions of the degrees and programs offered are found under the respective Departmental sections of this calendar. The Division of Natural Sciences and Mathematics offers selected Masters of Science (M.Sc.) degrees and a wide range of programs leading to the Bachelor of Science (B.Sc.) or Bachelor of Arts (B.A) degrees with Honours or Majors specialization. In addition, several departments offer Minor programs that can be added to one's Honours/Major program, and Computer Science offers a certificate program. Please see the complete list of programs in Table I below.

Divisional Major

The Division offers an entry level program for a limited number of students, allowing them to register as Divisional Majors (rather than into a specific program) for a maximum of two semesters. After two semesters of full-time study are completed, students must enroll into a specific program (Major). Students who are not accepted into one of the regular programs must consult with the Dean of Arts and Science to determine an academic plan.

Length of Degrees and Collegial Equivalent Science Courses

All students admitted into their first Bachelor's degree come into a 4-year, 120-credit program. Students having a Québec collegial diploma (DEC), as well as Mature students (please consult the Admission section of the calendar for the definition of Mature status), will be granted up to one year of advanced credits (30 credits) if they have completed all the collegial courses that are equivalent to the introductory science courses which must be taken as part of the various science programs. CEGEP/Bishop's courses equivalencies are listed below; Bishop's collegial-equivalent science courses that must be completed in each of our science programs are listed in Table II. Note that the labs that are associated with many of these courses (e.g. the course BIO 196 has an associated lab named BIL 196), must be taken concurrently.

Cellular/Molecular Biology	**BIO 196**
General Biology	**BIO 197**
General Chemistry	**CHM 191**
Solutions Chemistry	**CHM 192**
Differential Calculus	**MAT 191 or MAT 198**
Integral Calculus	**MAT 192 or MAT 199**
Mechanics	**PHY 191 or PHY 193**
Electricity and Magnetism	**PHY 192 or PHY 194**

Arts and Science Requirement

In addition to the courses listed in Table II, in order to encourage students enrolled in the Division of Natural Sciences & Mathematics to broaden the scope of their education, all majors and honours are required to complete at least three credits in either the Division of Humanities or the Division of Social Sciences. While this requirement will not in itself ensure against excessive specialization, it is hoped that it will lead students to find and pursue various areas of interest. Students with program combinations which require more than 72 credits are exempt from this requirement.

Advanced Placement

The Division of Natural Sciences and Mathematics grants credit for successful completion of AP examinations in the Sciences as follows. Note that a minimum score of 4 is required. When applicable, credit will also be granted for the lab that is associated with the course (e.g. the course BIO 196 and associated lab BIL 196).

Biology	**BIO 196 and BIO 197**
Chemistry	**CHM 191 and CHM 192**
Computer Science AB	**CS 311**
Mathematics BC	**MAT 191 and MAT 192**
Physics C-Mechanics	**PHY 191 (or PHY 193)**
Physics C-Electricity	**PHY 192 (or PHY 194)**

Transfers from other Universities and Colleges

Students entering a program in the Division of Natural Sciences and Mathematics from another Canadian University or College, or from accredited international post-secondary institutions, will have their transcripts of grades examined individually for possible transfer credit against a Bishop's program's requirements. Please consult the Admission section of this Calendar or the Admissions Office, admissions@ubishops.ca for details.

Transfers from other programs at Bishop's University

Bishop's students wishing to transfer into a program offered by the Division of Natural Sciences and Mathematics normally require a cumulative average of 65% on all courses attempted at

Table I: Programs Offered

Department/Program	Concentration	Degree type	Specialization Level
Biochemistry		B.Sc.	Honours, Major, Minor
Biological Sciences	Health Science	B.Sc., B.A	Honours, Major
	Life Science	B.Sc., B.A	Honours, Major
	Biology		Minor
Chemistry		M.Sc.	
		B.Sc.	Honours, Major, Minor
Computer Science		M.Sc.	
		B.Sc.	Honours, Major, Minor
		Certificate	
	Information Technology	B.A.	Major
Environmental Science	Physics	B.Sc.	Major
	Chemistry	B.Sc.	Major
	Environmental Studies		Minor
Mathematics		B.Sc., B.A	Honours, Major, Minor
	Mathematics Education	B.Sc., B.A	Double Major*
	Matematicas en Español	B.Sc., B.A	Honours, Major
	Mathematical Contexts		Minor
Physics		M.Sc.	
		B.Sc.	Honours, Major, Minor
Science Teaching	Biology	B.Sc.	Double Major*
	Chemistry	B.Sc.	Double Major*
	Physics	B.Sc.	Double Major*

The Division of Natural Sciences and Mathematics, in cooperation with the School of Education, offers students in these programs the opportunity to prepare for professional careers as Secondary School science and mathematics educators. Students must also be registered Education majors in the **School of Education. The specific required course lists and program regulations for these double Major programs are found in the School of Education section of this Calendar. All questions concerning application to the School and course requirements should be referred to the Dean of the School of Education.*

Table II: Collegial - equivalent courses

Department/Program	Life Science	Chemistry	Mathematics	Physics	Humanities*
Biochemistry	BIO 196	CHM 191	MAT 198	PHY 191 or PHY 193	ELA 116 + 1**
		CHM 192	MAT 199	PHY 192 or PHY 194	
Biological Sciences B.Sc.	BIO 196	CHM 191	MAT 198	PHY 191 or BIO 197	ELA 116 + 1**
	BIO 197	CHM 192	MAT 199	PHY 192 or PHY 194	
				PHY 193	
Biological Sciences B.A.	BIO 196				ELA 116 + 1**
	BIO 197				
Chemistry		CHM 191	MAT 198	PHY 191	ELA 116 + 1**
		CHM 192	MAT 199	PHY 192	
Computer Science B.Sc.			MAT 191	PHY 191	ELA 116 + 1**
			MAT 192	PHY 192	
Information Technology B.A.			MAT 196		ELA 116 + 1**
			MAT 197		
Environmental Science	BIO 196	CHM 191	MAT 191	PHY 191	ELA 116 + 1**
	BIO 197	CHM 192	MAT 192	PHY 192	
Mathematics B.Sc.			MAT 191	PHY 191	ELA 116 + 1**
			MAT 192	PHY 192	
Mathematics B.A.			MAT 191		ELA 116 + 1**
			MAT 192		
Physics		CHM 191	MAT 191	PHY 191	ELA 116 + 1**
		CHM 192	MAT 192	PHY 192	
Science Teaching	BIO 196	CHM 191	MAT 191 or MAT 198	PHY 191 or PHY 193	ELA 116 + 1**
	BIO 197	CHM 192	MAT 192 or MAT 199	PHY 192 or PHY 194	
				PHY 193	

** Any CEGEP DEC fulfils the Humanities requirement*

*** ELA 116 (Effective Writing) can be replaced by another English course (coded 'ENG'). The second humanities course can be selected from the 100- or 200-level courses in the following disciplines: Classical Studies (CLA), English (ENG), History (HIS), Liberal Arts (LIB), Philosophy (PHI) and Religion (REL)*

Bishop's. Students whose average is below 65% may still register in courses offered in the Division, subject to the normal regulations regarding course registration in the University. Program transfers are not normally permitted in a student's first semester of studies at Bishop's University.

Graduation "with Distinction"

The notation "with Distinction" will appear on the transcript of students who graduate with a cumulative average of 80% or more. It is only available for first degree students.

Instituting a New Course Numbering Scheme

In the winter 2012, the Registrar's Office in conjunction with the Dean of Arts & Science formed a working group consisting of the departmental chairpersons of the Division of Natural Sciences & Mathematics to consider and develop a new numbering scheme for courses offered within the Division.

It had become apparent that the current course numbering scheme would no longer meet the needs of the Division. The working group created a number scheme that would:

- be comprehensible and transparent to prospective students, the Bishop's community, and the outside world
- allow departments to more clearly articulate course levels and sequencing
- be consistent across departments and program in the Division of Natural Sciences & Mathematics
- be in-line with the requirements of the new student information system

The new numbering scheme was presented to and approved by the Senate on March 12, 2012.

Please see below a table outlining all the old versus new course number equivalencies.

From the Fall 2013 semester onwards Bishop's University transcripts for all continuing students will reflect the new course numbers. All courses taken prior to the Fall 2013 semester will reflect the old course numbers.

Department	New Course Code	Old Course Code	New Lab Code	Old Lab Code
Biochemistry				
	BCH 101	BCH 101		
	BCH 210	BCH 110		
	BCH 311	BCH 211		
	BCH 312	BCH 212		
	BCH 313	BCH 275		
	BCH 371	BCH 371		
	BCH 372	BCH 372		
	BCH 381	BCH 336		
	BCH 382	BCH 338		
	BCH 383	BCH 370		
	BCH 421	BCH 461		
	BCH 422	BCH 374		
	BCH 423	BCH 341		
	BCH 491	BCH 482		
	BCH 492	BCH 483		
			BCL 311	BCH 281
			BCL 313	BCH 282
			BCL 422	BCH 384
Biology				
	BIO 107	BIO 107		
	BIO 195	BIO 110		
	BIO 111	BIO 111	BIL 111	BIL 111
	BIO 245	BIO 113		
	BIO 246	BIO 114		
	BIO 205	BIO 115	BIL 205	BIL 115
	BIO 206	BIO 116	BIL 206	BIL 116
	BIO 207	BIO 117	BIL 207	BIL 117
	BIO 208	BIO 118	BIL 208	BIL 118
	BIO 131	BIO 131		
	BIO 233	BIO 133	BIL 233	BIL 133
	BIO 138	BIO 138		
	BIO 191	BIO 191	BIL 191	BIL 191
	BIO 193	BIO 193	BIL 193	BIL 193
	BIO 212	BIO 212		
	BIO 327	BIO 217	BIL 327	BIL 217
	BIO 319	BIO 220		
	BIO 321	BIO 221		
	BIO 394	BIO 224		
	BIO 336	BIO 226	BIL 336	BIL 226
	BIO 337	BIO 228	BIL 337	BIL 228
	BIO 331	BIO 230	BIL 331	BIL 230
	BIO 329	BIO 248	BIL 329	BIL 248
	BIO 442	BIO 252		
	BIO 357	BIO 257	BIL 357	BIL 257
	BIO 332	BIO 270	BIL 332	BIL 270
	BIO 386	BIO 272		
	BIO 393	BIO 291	BIL 393	BIL 291
	BIO 310	BIO 310		
	BIO 320	BIO 320		
	BIO 428	BIO 328		
	BIO 330	BIO 330	BIL 330	BIL 330
	BIO 433	BIO 333	BIL 433	BIL 333
	BIO 345	BIO 345		
	BIO 349	BIO 349		
	BIO 350	BIO 350		
	BIO 352	BIO 352	BIL 352	BIL 352
	BIO 354	BIO 354		
	BIO 358	BIO 358	BIL 358	BIL 358
	BIO 359	BIO 359		
	BIO 412	BIO 362		
	BIO 365	BIO 365		
	BIO 367	BIO 367	BIL 367	BIL 367
	BIO 421	BIO 371		
	BIO 422	BIO 372		
	BIO 391	BIO 391		
	BIO 392	BIO 392		
	BIO 491	BIO 462		
	BIO 492	BIO 463		
Chemistry				
	CHM 191	CHE191	CHL 191	CHE 081
	CHM 192	CHE192	CHL 192	CHE 082
	CHM 111	CHE105	CHL 111	CHE 185
	CHM 211	CHE106	CHL 211	CHE 186
	CHM 311	CHE225	CHL 311	CHE 385
	CHM 411	CHE226		
	CHM 121	CHE 102		

Department	New Course Code	Old Course Code	New Lab Code	Old Lab Code
	CHM 221	CHE 221	CHL 221	CHE 281
	CHM 222	CHE 222	CHL 222	CHE 282
	CHM 421	CHE 461		
	CHM 131	CHE 103	CHL 131	CHE 183
	CHM 231	CHE 223	CHL 231	CHE 283
	CHM 331	CHE 224	CHL 331	CHE 284
	CHM 431	CHE 464		
	CHM 141	CHE 104	CHL 141	CHE 184
	CHM 241	CHE 144		
	CHM 242	CHE 244	CHL 242	CHE 248
	CHM 341	CHE 227	CHL 341	CHE 287
			CHL 142	CHE 189
			CHL 300	CHE 386
	CHM 181	CHE 131		
	CHM 182	CHE 135		
	CHM 371	CHE 277		
	CHM 471	CHE 477		
	CHM 491	CHE 491		
	CHM 492	CHE 492		
	CHM 499	CHE 489		
Computer Science				
	CS 201	CSC 101	CSL 201	
	CS 102	CSC 102	CSL 102	
	CS 203	CSC 103	CSL 203	
	CS 207	CSC 107	CSL 207	
	CS 211	CSC 111	CSL 211	
	CS 113	CSC 113	CSL 113	
	CS 216	CSC 116	CSL 216	
	CS 321	CSC 121	CSL 321	
	CS 130	CSC 130		
	CS 301	CSC 201		
	CS 304	CSC 204		
	CS 305	CSC 205	CSL 305	
	CS 306	CSC 206		
	CS 307	CSC 207	CSL 307	
	CS 308	CSC 208		
	CS 311	CSC 211	CSL 311	
	CS 312	CSC 212	CSL 312	
	CS 214	CSC 214		
	CS 315	CSC 215		
	CS 316	CSC 216		
	CS 317	CSC 217		
	CS 318	CSC 218		
	CS 219	CSC 219		
	CS 230	CSC 230	CSL 230	
	CS 379	CSC 272		
	CS 375	CSC 275		
			CSL 284	CSC 284
	CS 401	CSC 301		
	CS 402	CSC 302	CSL 402	
	CS 403	CSC 303		
	CS 404	CSC 304		
	CS 406	CSC 306		
	CS 408	CSC 308		
	CS 409	CSC 309		
	CS 410	CSC 310		
	CS 411	CSC 311		
	CS 415	CSC 315		

Department	New Course Code	Old Course Code	New Lab Code	Old Lab Code
	CS 416	CSC 316		
	CS 417	CSC 317		
	CS 418	CSC 318		
	CS 420	CSC 320		
	CS 428	CSC 328		
	CS 372	CSC 372		
	CS 391	CSC 391		
	CS 392	CSC 392		
	CS 393	CSC 393		
	CS 394	CSC 394		
	CS 400	CSC 400		
	CS 455	CSC 405		
	CS 462	CSC 412		
	CS 463	CSC 413		
	CS 464	CSC 414		
	CS 457	CSC 417		
	CS 469	CSC 419		
	CS 467	CSC 427		
	CS 471	CSC 471		
	CS 499	CSC 499		
	CS 502	CSC 502		
	CS 555	CSC 505		
	CS 506	CSC 506		
	CS 509	CSC 509		
	CS 510	CSC 510		
	CS 562	CSC 512		
	CS 563	CSC 513		
	CS 564	CSC 514		
	CS 515	CSC 515		
	CS 516	CSC 516		
	CS 557	CSC 517		
	CS 569	CSC 519		
	CS 567	CSC 527		
	CS 596	CSC 596		
	CS 597	CSC 597		
	CS 599	CSC 599		
Environmental Science				
	ENV 101	ENV 101		
	ENV 241	ENV 144		
	ENV 242	ENV 244		
			EVL 242	ENV 248
	ENV 337	ENV 267		
	ENV 375			
	ENV 437	ENV 377		
Math				
	MAT 100/110	MAT 100/110		
	MAT 101/111	MAT 101/111		
	MAT 103	MAT 103		
	MAT 104	MAT 104		
	MAT 200	MAT 105		
	MAT 206	MAT 106		
	MAT 207	MAT 107		
	MAT 108	MAT 108		
	MAT 209	MAT 109		
	MAT 202	MAT 114		
			MAL 202	MAT 184(lab)
	MAT 220	MAT 115		
	MAT 203	MAT 125		

Department	New Course Code	Old Course Code	New Lab Code	Old Lab Code
	MAT 190	MAT 190		
	MAT 191	MAT 191		
	MAT 192	MAT 192		
	MAT 196	MAT 196		
	MAT 197	MAT 197		
	MAT 198	MAT 198		
	MAT 199	MAT 199		
	MAT 310	MAT 210		
	MAT 311	MAT 211		
	MAT 313	MAT 213		
	MAT 314	MAT 214		
	MAT 315	MAT 215		
	MAT 316	MAT 216		
	MAT 317	MAT 217		
	MAT 322	MAT 221		
	MAT 323	MAT 222		
	MAT 324	MAT 224		
	MAT 325	MAT 225		
	MAT 326	MAT 226		
	MAT 401	MAT 301		
	MAT 402	MAT 302		
	MAT 405	MAT 305		
	MAT 406	MAT 306		
	MAT 421	MAT 321		
	MAT 431	MAT 331		
	MAT 446	MAT 356		
	MAT 460	MAT 450		
	MAT 461	MAT 451		
	MAT 462	MAT 452		
	MAT 463	MAT 453		
	MAT 464	MAT 454		
	MAT 465	MAT 455		
	MAT 466	MAT 456		
	MAT 467	MAT 457		
Physics				
			PHL 191	PHY 081
			PHL 192	PHY 082
			PHL 193	PHY 083
			PHL 194	PHY 084
			PHL 286	PHY 086
			PHL 199	PHY 089
	PHY 101	PHY 101		
	PHY 206	PHY 106		
	PHY 207	PHY 107		
	PHY 111	PHY 111		
	PHY 112	PHY 112		
	PHY 113	PHY 113		
	PHY 214	PHY 114		
	PHY 208	PHY 117		
			PHL 206	PHY 186
			PHL 286	PHY 086
	PHY 191	PHY 191		
	PHY 192	PHY 192		
	PHY 193	PHY 193		
	PHY 194	PHY 194		
	PHY 199	PHY 199		
	PHY 320	PHY 210		
	PHY 321	PHY 211		

Department	New Course Code	Old Course Code	New Lab Code	Old Lab Code
	PHY 319	PHY 212		
	PHY 316	PHY 216		
	PHY 318	PHY 218		
	PHY 317	PHY 220		
	PHY 315	PHY 230		
	PHY 365	PHY 265		
	PHY 270	PHY 270		
	PHY 371	PHY 271		
	PHY 374	PHY 274		
	PHY 375	PHY 275		
	PHY 376	PHY 276		
	PHY 378	PHY 278		
			PHL 385	PHY 285
			PHL 386	PHY 286
			PHL 387	PHY 287
			PHL 388	PHY 288
	PHY 335	PHY 335		
	PHY 361	PHY 361		
	PHY 380	PHY 385		
	PHY 462	PHY 462		
	PHY 463	PHY 463		
	PHY 464	PHY 464		
	PHY 465	PHY 465		
	PHY 466	PHY 466		
	PHY 467	PHY 467		
	PHY 469	PHY 469		
	PHY 470	PHY 470		
	PHY 474	PHY 474		
	PHY 475	PHY 475		
	PHY 476	PHY 476		
	PHY 480	PHY 480		
	PHY 561	PHY 561		
	PHY 562	PHY 562		
	PHY 564	PHY 564		
	PHY 565	PHY 565		
	PHY 566	PHY 566		
	PHY 567	PHY 567		
	PHY 571	PHY 571		
	PHY 572	PHY 572		
	PHY 573	PHY 573		
	PHY 574	PHY 574		
	PHY 575	PHY 575		
	PHY 576	PHY 576		
	PHY 577	PHY 577		
	PHY 578	PHY 578		
	PHY 579	PHY 579		
	PHY 580	PHY 580		
	PHY 581	PHY 581		
	PHY 586	PHY 586		
	PHY 600	PHY 600		
	PHY 900	PHY 900		
	PHY 999	PHY 999		

Biochemistry

The Biochemistry program at Bishop's is coordinated through an interdisciplinary committee of chemists, biochemists and biologists, providing students with a strong background in chemistry, biochemistry and biology. Students enrolling in the Biochemistry program will be able to follow a course of study that best meets their interests, strengths and future needs. This is accomplished through the offering of three program specializations – General, Molecular Biology, or Chemistry – any one of which the student will select to complete their Biochemistry program requirements. The goal of the General specialization is to provide a broad background in several relevant fields of biology, biochemistry and chemistry. The Molecular Biology specialization places greater emphasis on the molecular and cellular fields of study. The Chemistry specialization is more focused in chemistry and, by selecting the appropriate courses, can provide the student with the necessary academic requirements for membership in the Chemical Institute of Canada and accreditation by *l'Ordre des chimistes du Québec*.

The Biochemistry program offers both an Honours degree, which rigorously prepares students for graduate studies or professional schools, and a Majors degree, which provides students more flexibility in their program. The program places strong emphasis on mastering the fundamentals of experimental biochemistry, and provides students with well-equipped laboratory facilities, first-hand experience with modern laboratory equipment, and close instructional contact with professors. As well, the Agriculture Canada Research Station in Lennoxville and the Université de Sherbrooke, with its associated medical research hospital, are easily accessible to students and provide additional opportunities and exposure for interested Honours students.

Entrance Requirements

Students are normally admitted to a four-year degree requiring the completion of 120 credits, but Advanced Standing of up to 30 credits may be granted if the student obtains satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement Exams. CEGEP students missing some of the science prerequisites will have their program length adjusted to include the science courses missing. Please refer to the appropriate section for admission requirements.

Requirements for Honours Programs

Students are not admitted to the Honours Biochemistry program until the end of their Y3 year.

To be eligible to enter the Honours Biochemistry program, a student must normally achieve:

i) a minimum cumulative average of 75% by the end of the Y3 year, and

ii) at least 75% in each 300-level and 400-level course required in the program.

To complete the Honours Biochemistry program, a student must;

i) maintain a minimum cumulative average of 75% and

ii) achieve at least 75% in each 300-level and 400-level course required in the program with a maximum permitted exemption of four credits.

The Honours Biochemistry program includes a six-credit honours research project that will be evaluated by at least three faculty from, or recognized by, the Biochemistry Program Committee. The scientific results of the honours research project must be presented in public, either through an oral seminar or poster presentation, and the scientific results submitted in a written thesis.

Biochemistry Major Program

The Biochemistry Major program is a four-year program that requires 40 three-credit courses, or their equivalent, for a total of 120 course credits, plus associated laboratory courses, the number of lab courses required depending on the specialization selected. The 120 course credits are divided as follows: 69 core required course credits, 21 specialization course credits, 27 free elective credits and 3 humanities or social sciences elective credits.

Core Required Courses (69 course credits):

Y1 Year

BIO 196 / BIL 196 (Intro Cellular and Molecular Biology)	CHM 192 / CHL 192 (General Chemistry II)
CHM 191 / CHL 191 (General Chemistry I)	PHY 194 / PHL 194 (General Physics II for Life Science)
PHY 193 / PHL 193 (General Physics I for Life Science)	MAT 199 (Calculus II for Life Science)
MAT 198 (Calculus I for Life Science)	OPT
ELA 116 (Effective Writing)	OPT

Y2 Year

BIO 201 (Cellular and Molecular Biology)	BIO 208 / BIL 208 (Genetics)
CHM 131 / CHL 131 (Physical Chemistry I)	BCH 210 / BCL 210 (General Biochemistry)
CHM 141 / CHL 141 (Analytical Chemistry)	CHM 211 / CHL 211 (Organic Chemistry II)
CHM 111 / CHL 111 (Organic Chemistry I)	OPT
PHY 101 (Statistical Methods)	OPT

Y3 Year

BIO 336 / BIL 336 (Animal Physiology I)	BCH 312 (Lipids & Biomembranes)
BCH 311 / BCL 311 (Proteins)	BCH 313 / BCL 313 (Metabolism)
CHM 341 / CHL 341 (Molecular Spectroscopy)	OPT
OPT	OPT
OPT	OPT

Y4 Year

BCH 383 (Molecular Biology)	OPT
BCH 422 / BCL 422 (Biotechnology)	OPT
OPT	OPT
OPT	OPT
OPT	OPT

Specialization Courses (21 course credits)
- *see below for individual specializations*

Free Electives (27 course credits)

Humanities or Social Sciences Elective (3 course credits)

Biochemistry Honours Program

The Biochemistry Honours program is a four-year program that requires 40 three-credit courses, or their equivalent, for a total of 120 course credits, plus associated laboratory courses, the number of lab courses required depending on the specialization selected. The 120 course credits are divided as follows: 78 core required course credits, 21 specialization course credits, 18 free elective credits and 3 humanities or social sciences elective credits.

Core Required Courses (78 course credits)

Y1 Year

BIO 196 / BIL 196 (Intro Cellular and Molecular Biology)	CHM 192 / CHL 192 (General Chemistry II)
CHM 191 / CHL 191 (General Chemistry I)	PHY 194 / PHL 194 (General Physics II for Life Science)
PHY 193 / PHL 193 (General Physics I for Life Science)	MAT 199 (Calculus II for Life Science)
MAT 198 (Calculus I for Life Science)	OPT
ELA 116 (Effective Writing)	OPT

Y2 Year

BIO 201 (Cellular and Molecular Biology)	BIO 208 / BIL 208 (Genetics)
CHM 131 / CHL 131 (Physical Chemistry I)	BCH 210 / BCL 210 (General Biochemistry)
CHM 141 / CHL 141 (Analytical Chemistry)	CHM 211 / CHL 211 (Organic Chemistry II)
CHM 111 / CHL 111 (Organic Chemistry I)	OPT
PHY 101 (Statistical Methods)	OPT

Y3 Year

BIO 336 / BIL 336 (Animal Physiology I)	BCH 312 (Lipids & Biomembranes)
BCH 311 / BCL 311 (Proteins)	BCH 313 / BCL 313 (Metabolism)
CHM 341 / CHL 341 (Molecular Spectroscopy)	OPT
OPT	OPT
OPT	OPT

Y4 Year

BCH 383 (Molecular Biology)	BCH 492 (Honours Research Project II)
BCH 422 / BCL 422 (Biotechnology)	OPT
BIO 386 (Scientific Writing)	OPT
BCH 491 (Honours Research Project I)	OPT
OPT	OPT

Specialization Courses (21 course credits)
- *see below for individual specializations*

Free Electives (18 course credits)

Humanities or Social Sciences Elective (3 course credits)

Specializations

General Specialization

Specialization required courses (12 course credits):
BCH 381 (Immunology)
BCH 421 (Enzymology)
BIO 337 / BIL 337 (Animal Physiology II)
BIO 352 / BIL 352 (Microbiology)

Required Options (3 courses from list):

Biochemistry:
BCH 382 (Environmental Biochemistry and Toxicology)
BCH 423 (Current Topics in Biotechnology)

Biology:
BIO 310 (Advanced Cell Biology)
BIO 320 (Programed Cell Death)
BIO 345 (Plant Physiology)
BIO 393 / BIL 393 (Evaluating Scientific Evidence)

Chemistry:
CHM 241 (Environmental Chemistry: Atmosphere and Energy)
CHM 311 / CHL 311 (Organic Chemistry III)

Molecular Biology Specialization

Specialization required courses (12 course credits):
BCH 381 (Immunology)
BIO 394 (Biology of Cancer)
or
BIO 320 (Programmed Cell Death)
BIO 352 / BIL 352 (Microbiology)
BIO 365 (Developmental Biology)

Required Options (3 courses, 9 course credits, from list):

Biochemistry:
BCH 382 (Environmental Biochemistry and Toxicology)
BCH 421 (Enzymology)
BCH 423 (Current Topics in Biotechnology)

Biology:
BIO 337 / BIL 337 (Animal Physiology II)
BIO 345 (Plant Physiology)
BIO 359 (Human Genetics)
BIO 393 / BIL 393 (Evaluating Scientific Evidence)
BIO 394 (Biology of Cancer)

Chemistry Specialization

Specialization required courses (12 course credits):
CHM 121 (Structure and Bonding)
CHM 221 / CHL 221
(Transition Metals and Bioinorganic Chemistry)
CHM 231 / CHL 231 (Physical Chemistry II)
CHM 311 / CHL 311 (Organic Chemistry III)

Required Options (3 courses, 9 course credits, from list):

Biochemistry:
BCH 381 (Immunology)
BCH 382 (Environmental Biochemistry and Toxicology)
BCH 421 (Enzymology)

Chemistry:
CHM 241 (Environmental Chemistry: Atmosphere and Energy)
CHM 242 / CHL 242 (Environmental Chemistry: Water and Soil)
*CHM 331 / CHL 331 (Physical Chemistry III)
CHM 411 (Advanced Topics in Organic Chemistry)

** This course must also be completed, along with the Specialization Required Courses listed above, in order to be eligible for accreditation by l'Ordre des Chimistes du Quebec .*

Biochemistry Minor

This program is intended for students who are not registered in the Department of Chemistry. The program requires 8 three-credit one-semester courses, or their equivalent, for a total of 24 course credits, plus credits for associated laboratory courses.

Required Courses: (15 course credits)
BCH 311 / BCL 311 (Proteins)
BCH 312 (Lipids & Biomembranes)
BCH 313 / BCL 313 (Metabolism)
BIO 195 (Introductory Cellular & Molecular Biology)
CHM 141 / CHL 141 (Analytical Chemistry)

Required Optional Courses
(3 courses, 9 course credits, from list):

Biochemistry:
BCH 381 (Immunology)
BCH 383 (Molecular Biology)
BCH 421 (Enzymology)

Biology:
BIO 208 / BIL 208 (Genetics)
BIO 310 (Advanced Cell Biology)
BIO 320 (Programed Cell Death)
BIO 336 / BIL 336 (Animal Physiology I)
BIO 337 / BIL 337 (Animal Physiology II)
BIO 345 (Plant Physiology)
BIO 352 / BIL 352 (Microbiology)
BIO 394 (Biology of Cancer)
BIO 442 (Bioethics)

Chemistry:
CHM 111 / CHL 111 (Organic Chemistry I)
CHM 131 / CHL 131 (Physical Chemistry I)
CHM 211 / CHL 211 (Organic Chemistry II)

BCH 101a/b Introduction to Nutrition 3-3-0
This course is designed for students from any discipline (except Biochemistry, Biology and Chemistry). It will provide an introduction to basic concepts of nutrition and ways that good nutrition can be integrated into a healthy life style. Principles of digestion and absorption, the function of nutrients, disease prevention, diet modification and weight control will be discussed.
Prerequisites: None. However, secondary school Biology is strongly recommended.
Note: This course may not be taken for credit by students in Biology, Biochemistry or Chemistry programs.

BCH 210b General Biochemistry 3-1-0
An introduction to the structure and function of biomolecules with the emphasis on the central phenomena behind the behavior of biomolecules in the cellular environment.
Prerequisites: Chemistry 111a
Co-requisite: BCL 210b
BIO 201a is strongly recommended
Professor Prusak

BCL 210b Chromatography Laboratory 1-0-3
Study of chromatography and quantitative analysis by chromatographic methods (TLC, GLC, HPLC, and gel permeation)
Co-requisite: BCH 210b
Note: Students may not take this course for credit if they have received credit for CHL 142b

BCH 311a Proteins 3-3-0
Protein structure and function, including protein purification, structure analysis, protein synthesis, distribution and degradation, as well as molecular visualization of protein structure.
Prerequisite: Chemistry 111a, BCH 210b
Co-requisite: BCL 311a
Professor Prusak

BCL 311a Analytical Biochemistry Laboratory I 1-0-3
This course, together with BCL 313b, will introduce the basic concepts of isolation and identification of biomolecules, the use of chromatography, electrophoresis, and the enzymatic techniques for the quantization of metabolites.
Co-requisite: BCH 311a
Professor Prusak

BCH 312b Lipids and Biomembranes 3-3-0
Biomembranes structure and function, including study of cell membrane structure, trans-membrane signaling, hormones and secondary messengers.
Prerequisite: BCH 311a
Professor Prusak

BCH 313b Metabolism 3-3-0
Introduction to the basic metabolic pathways of living cells. These include the central metabolic pathways associated with cellular energy generation, carbohydrate degradation and synthesis, fatty acid degradation and synthesis, lipid metabolism and nitrogen metabolism. Emphasis will be placed on the role and regulation of enzymes associated with these pathways.
Prerequisite: Chemistry 111a, or BIO 155, and BIO 336a
Co-requisite: BCL 313b
Professor Stroeher

BCL 313b Analytical Biochemistry Laboratory II 1-0-3
This course introduces the student to research approaches in metabolic enzymology and the study of enzyme kinetics. Environmental factors influencing enzyme activity as well as the effects of different inhibitory molecules will be examined. As well, protein isolation and analysis will be covered.
Co-requisite: BCH 313b
Professor Stroeher

BCH 371a/b Independent Studies in Biochemistry I 3-1-3
This course is not regularly offered and is only meant for final-year students who wish to pursue in-depth study of a particular area of biochemistry or who have a special need for a biochemistry course that would otherwise not be available during their final year of course work. This course can only be done in close collaboration with a faculty advisor from within the Biochemistry program, and may not be used as a supplement to a student's honours project. Requirements for this course will be agreed upon by at least three professors from within the Biochemistry Program.
Prerequisite: Consent of members of the Biochemistry Program.

BCH 372a/b Independent Studies in Biochemistry II 3-1-3
This course represents an additional semester of independent work, either a continuation of or a separate course from BCH 371a/b, meant for final-year students who wish to pursue in-depth study of a particular area of biochemistry or who have a special need for a biochemistry course that would otherwise not be available during their final semester of course work. This course can only be done in close collaboration with a faculty advisor from within the Biochemistry Program, and may not be used as a supplement to a student's honours project. Requirements for this course will be agreed upon by at least three professors from within the Biochemistry Program.
Prerequisite: Consent of members of the Biochemistry Program.

BCH 381a Immunology 3-3-0
A comprehensive study of the fundamental principles of immunobiology. Intercellular recognition and self/non-self discrimination. Clonal selection theory and genetic basis of antibody diversity. Biochemistry of immunoglobulins. Regulation of immune response and tolerance.
Prerequisites: BIO 201a and BIO 208b
Professor Prusak

BCH 382a/b Environmental Biochemistry and Toxicology 3-3-0
This course will examine 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 will include adaptations to stresses such as temperature extremes, pathogens, and ionizing radiation. Applications to related biotechnological processes may also be considered.
Prerequisite: BIO 201a and BIO 208b
Professor Prusak

BCH 383a Molecular Biology 3-3-0
The molecular biology of nucleic acids and proteins, including DNA replication, mutation, and recombination; RNA transcription; and protein synthesis. Also covered will be protein/nucleic acid interactions and regulation of gene expression.
Prerequisite: BIO 208b, BIO 336a
Professor Stroeher

BCH 421b Enzymology 3-3-0
Kinetics of enzyme reactions and mechanism of catalysis. Regulation by allosteric effectors and covalent modification. Protein targeting and degradation.
Prerequisites: BCH 311a, BCH 312b and BCH 313b
Professor Prusak

BCH 422a Biotechnology 3-3-0
This course will explore the technical approaches used in current research and biotechnology, emphasizing the applications of molecular strategies and processes studied in BCH 383. Both the theoretical and practical aspects of these molecular approaches will be discussed, as well as how these techniques are utilized and how they have changed modern research and medicine.
Prerequisite: BCH 383a (may be taken concurrently)
Corequisite: BCL 422a
Professor Stroeher

BCL 422a Biotechnology Laboratory 1-0-3
Practical application of several of the techniques introduced in BCH 422b.
Prerequisite: BCH 383a (may be taken concurrently)
Corequisite: BCH 422a
Professor Stroeher

BCH 423a/b Current Topics in Biotechnology 3-3-0
Seminar style course in which students will explore the current topics in biotechnology.
Prerequisites: BCH 383a

BCH 491a/b Honours Research Project I 3-1-6
An introduction to the planning, execution and reporting of biochemical research. Students are required to choose a research project and in consultation with an approved supervisor, draw up a formal research proposal of work to be undertaken. The proposal must be submitted in final form by November 1 (or February 1 for winter semester). The final mark in this course will be based on the research proposal, a written report of the results of the initial experiments as outlined in the proposal and a poster presentation. Satisfactory completion of BCH 491 with a minimum mark of 70% will permit enrolment in BCH 492a/b.
Prerequisite: Permission of course coordinator
Co-requisite: BIO 386a
Professor Prusak or Professor Stroeher

BCH 492a/b Honours Research Project II 3-1-12
A continuation of BCH 491, consisting of experimentation as outlined in the research proposal; presentation of a seminar based on research findings, to be scheduled in the last two weeks of term; and submission of a written dissertation on or before the last day of classes.
Prerequisite: BCH 491a/b and permission of course coordinator
Professor Prusak or Professor Stroeher

Biological Sciences

The Biology programs educate students about diverse aspects of living organisms, ranging from microbes to human populations. Many of our graduates go on to graduate and professional studies in medicine, dentistry, veterinary medicine, the allied health sciences, forestry, wildlife biology, microbiology or biotechnology. A degree in biology also prepares students for direct employment in the biotechnology sector, environmental biology, or some allied health fields.

Biology's best attribute is its teachers. Our faculty members are dedicated to undergraduate teaching. Students who come to BU are treated as individuals, not numbers, and are exposed to numerous hands-on lab situations.

The Department of Biological Sciences is well equipped for study and student research in zoology, botany, physiology, molecular biology and ecology. Students receive extensive instruction and hands-on experience in our modern laboratory facilities, and are encouraged in every way to develop their capacities for independent work. Bishop's University is located near a variety of habitats including bogs, lakes, rivers, mountains, marshes, hardwood forests and meadows. This variety means students can be hiking during one lab and canoeing the next. The rural setting of Bishop's combines the features of a biological field station with those of a well-equipped biology department, providing exceptional opportunities for field study and research in ecology and environmental biology. Those students interested in molecular biology and health sciences will benefit from the proximity of the Université de Sherbrooke. This French-language university provides an active nucleus of researchers in physiology, immunology, nuclear medicine, and microbiology. An ongoing collaboration between the Université de Sherbrooke and Bishop's provides our students (including unilingual anglophones with access to these researchers and their laboratories.

The Biology department offers both Bachelors of Science (B.Sc.) and Bachelors of Arts (B.A.) degrees. Students in either degree program choose between two concentrations: Health Science or Life Science. Health Science is the best concentration for students interested in medical research, clinical medicine, or the allied health sciences (such as nursing or physiotherapy). Students interested in wildlife biology, plant science, and environmental biology choose the Life Sciences concentration. Please note that the complete list of courses to be taken within each program is outlined in the nearby tables.

B.Sc. Biology, Major/Honours:

The B.Sc. programs are the best choice for students with a strong grounding in the core sciences (math, physics, and chemistry). Students graduating with a B.Sc. will be ready to enter graduate studies (M.Sc. or Ph.D) or professional schools (e.g. medicine, dentistry, physiotherapy, or veterinary medicine). The B.Sc. program includes basic science courses, core Biology courses, courses related to the chosen concentration, and free electives. See the nearby tables for the complete list of courses.

Highly motivated students may choose to pursue an honours degree, which requires additional Biology courses and fewer electives (see nearby tables). To qualify, students must: (1) maintain a cumulative average of at least 75% in all 300-and 400-level Biology courses; (2) receive a mark lower than 75% in no more than 1 lecture course and 1 laboratory course; and (3) obtain a mark of 75% or higher in BIO 491 and BIO 492.

Entrance Requirements B.Sc.

Please refer to the appropriate section for information regarding admission into B.Sc. program. Quebec students with a completed D.E.C. will be granted credit for Year 1 courses (30 credits) if they successfully completed collegial courses in Chemistry (General Chemistry, Solutions Chemistry), Physics (Mechanics, Electricity and Magnetism), Mathematics (Differential Calculus, Integral Calculus) and Biology (General Biology, Cell and Molecular Biology). These students will begin their studies in Year 2. Students lacking any of these courses can take their equivalents at Bishop's, and their advanced credits will be reduced accordingly.

Non-Quebec students will be admitted on the basis of their Grade 12 (or equivalent) marks. Students should have completed Grade 12 courses in Chemistry, Physics, Mathematics, and Biology, but exceptions will be considered.

B.A. Biology Major:

The B.A. Biology program is designed for students lacking a strong science background. It is ideal for students interested in pursuing a double major (such as Biology and Psychology, or Biology and Political Science), and provides a solid grounding in the biological sciences. The B.A. Biology degree provides adequate preparation for some, but not all, professional and graduate programs. Students are advised to consult officials of the specific post-graduate institution of interest.

The B.A. program includes core Biology courses, courses related to the chosen concentration (Health Sciences or Biodiversity and Ecology), and a large number of electives that can be used to complete the requirements of a second major. Please see the nearby Tables for the complete list of courses required to complete this degree.

Entrance Requirements, B.A.

Quebec students with a complete D.E.C. will receive 30 advanced credits if they have completed General Biology and Cell Biology and will begin their studies in Year 2. Students lacking either of these courses can take their equivalents at Bishops, and their advanced credits will be reduced accordingly.

Non-Quebec students will be admitted on the basis of their Grade 12 (or equivalent) marks. Completion of Grade 12 Biology is strongly recommended.

Biology Minor

The biology minor consists of eight introductory courses in different areas of Biology. As illustrated in Table II, six of these courses are required and two are optional. This minor allows students majoring in a different field to obtain a perspective on modern biology.

Pre-Medicine Double Major

Biology students may also be interested in the inter-disciplinary Pre-Medicine double major, which specifically addresses the needs of students preparing for Medical School entry. See the Pre-Medicine Double Major section for more details on how this program can be combined with a B.Sc. or B.A. Biology.

B.Sc. Biology (Health Sciences)*

1. Y1 Year
(All non-Quebec students; 30 cr)
BIO 196 Introductory Cell & Molecular Biology
BIO 197 Evolution Of Life
CHM 191 General Chemistry I
CHM 192 General Chemistry II
PHY 193 General Physics I for Life Sciences I
PHY 194 General Physics II for Life Sciences II
MAT 198 Calculus I for Life Sciences
MAT 199 Calculus II for Life Sciences
ELA 116 Effective Writing (or other ENG)
Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)

2. Required Core Courses (21 cr)
BIO 201 Cell and Molecular Biology
BIO 205 Diversity of Life 1
BIO 206 Diversity of Life 2
BIO 208 Genetics
BIO 336 Animal Physiology 1
CHM 111 Organic Chemistry
PHY 101 Statistical Methods

3. Required Concentration Courses (18 cr)
BIO 233 Human Anatomy
BCH 313 Metabolism
BIO 337 Animal Physiology 2
BIO 352 Microbiology
PSY 101 Introductory Psychology
PBI 288 Brain and Behavior

4. Concentration Options (21 cr)
Select any 7 courses from the far right column, including a maximum of 3 Psychology courses (PSY, PMA and/or PBI).

5. Science Options (6 cr)
Select any 2 courses from the Division of Natural Sciences and Mathematics (including Biology courses). All courses must be eligible for Science credit.

6. Free Options (24 cr)
Choose 8 courses from any division to complete your program. These electives can be used to fulfill the requirements for a minor from a different department.

B.Sc. Biology Honours (Health Sciences)

In addition to requirements 1-5 above, add the following courses and reduce the free options to 15 cr (5 courses).
BIO 492 Honours Thesis I
BIO 493 Honours Thesis II
BIO 386 Scientific Writing

B.A. Biology (Health Sciences)*

1. Y1 Year
(All non-Quebec students; 30 cr)
BIO 196 Introductory Cell and Molecular Biology
BIO 197 Evolution of Life
ELA 116 Effective Writing (or other ENG)
Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)
6 free options

2. Required Core Courses (12 cr)
BIO 205 Diversity of Life 1
BIO 206 Diversity of Life 2
BIO 208 Genetics
PHY 101 Statistical Methods

3. Required Concentration Courses (12 cr)
BIO 233 Human Anatomy
PSY 101 Introductory Psychology
OR
PBI 288 Brain and Behavior
BIO336 Animal Physiology 1
BIO 337 Animal Physiology 2

4. Concentration Options (18 cr)
Select any 6 courses from the far right column., including a maximum of 3 Psychology courses (PSY, PMA, and/or PBI).

5. Free Options (45 cr)
Choose 15 courses from any division to complete your program. Consider using these free options (along with the Y1 options, if applicable) to fulfill requirements for a second major.

Health Sciences Concentration Options*

BIO 207 General Ecology
BIO 212 Evolution
BIO 319 History of Biology
BIO 394 Biology of Cancer
BIO 442 Bioethics
BIO 393 Evaluating Sci. Evidence
BIO 320 Programmed Cell Death
BIO 428 Adv Physiology
BIO 433 Advanced Exer Phys
BIO 349 Med and Forensic Entomology
BIO 359 Human Genetics
BIO 365 Devel Biology
BIO 391 Experiential Learning in Health Sciences and Biochemistry
BIO 411 Seminar in Health Sciences
BCH 210 General Biochemistry
BCH 311 Proteins
BCH 312 Lipids and Membranes
BCH 381 Immunology
BCH 382 Env Biochem and Tox
BCH 383 Molecular Biology
BCH 422 Biotechnology
CHM 141Analytical Chemistry
CHM 211 Organic Chemistry II.
PBI 275 Health Psychology 1
PBI 276 Health Psychology 2
PBI 302 Perception
PBI 388 Brain and Behaviour II
PBI 379 Neuropsychology
PBI 380 Psychopharmacology
PSY 213 Research Methods
PMA 360 Advanced Psychological Statistics
PMA 460 Multivariate Statistics
PSY 399 Psychology of Drug Addiction

**Please note that many courses have associated labs, featuring the same course number and the BIL code, as indicated in the individual course descriptions. Lab credits do not count towards the total credit requirements of the program. The associated (co-requisite) lab must be completed to receive credit for the course.*

Table 1: The Health Science Concentration

B.Sc. Biology (Biodiversity and Ecology)*

1. Y1 Year
(All non-Quebec students; 30 cr)
BIO196 Introductory Cell and Molecular Biology
BIO 197Evolution of Life
CHM 191 General Chemistry I
CHM 192 General Chemistry II
PHY 193 General Physics I for Life Sciences I
PHY 194 General Physics II for Life Sciences II
MAT 198 Calculus I for Life Sciences
MAT 199 Calculus II for Life Sciences
ELA 116 Effective Writing (or other ENG)
Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)

2. Required Core Courses (21 cr)
BIO 201 Cell and Molecular Biology
BIO 205 Diversity of Life 1
BIO 206 Diversity of Life 2
BIO 208 Genetics
BIO 336 Animal Physiology 1
CHM 111 Organic Chemistry
PHY 101 Statistical Methods

3. Required Concentration Courses (18 cr)
BIO 207 General Ecology
BIO212 Evolution
BIO 327 Advanced Ecology
OR
BIO 393 Evaluating Experimental Evidence
ESG127 Introduction to Physical Geography
BIO 357 Vascular Plant Systematics
OR
BIO 345 Plant Physiology
BIO 332 Vertebrate Zoology
OR
BIO 329 Invertebrate Biology

4. Concentration Options (18 or 21 cr)
Select any 7 courses (Majors) or 6 courses (Honours) from the far right column, including a maximum of 3 non-BIO (BCH,ESG, and/or ENV).

5. Science Options (6 cr)
Select any 2 courses from the Division of Natural Sciences and Mathematics (including Biology courses). All courses must be eligible for Science credit.

Table 2: The Biodiversity and Ecology Concentration

6. Free Options (15 or 24 cr)
Choose 8 courses from any division to complete your program. These electives can be used to fulfill the requirements for a minor from a different department.

B.Sc. Biology Honours (Biodiversity and Ecology)

In addition to requirements 1-5 above, add the following courses and reduce the free options to 15 cr (5 courses).
BIO 492 Honours Thesis I
BIO 493 Honours Thesis 2
BIO 386 Scientific Writing
BIO 393 Evaluating Experimental Evidence

B.A. Biology (Biodiversity and Ecology)*

1. Y1 Year (All non-Quebec students; 30 cr)
BIO 196 Introductory Cellular and Molecular Biology
BIO 197 Evolution of Life
ELA 116 Effective Writing (or other ENG)
Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)
7 free options

2. Required Core Courses (12 cr)
BIO 205 Diversity of Life 1
BIO 206 Diversity of Life 2
BIO 208 Genetics
PHY 101 Statistical Methods

3. Required Concentration Courses (12 cr)
BIO 207 General Ecology
BIO 212 Evolution
ESG 127 Introduction to Physical Geography
BIO 332 Vertebrate Zoology
OR
BIO 329 Invertebrate Biology
OR
BIO 345 Plant Physiology

4. Concentration Options (18 cr)
Select any 6 courses from the far right column, including a maximum of 3 non-BIO (BCH, ESG, and/or ENV).

5. Free Options (45 cr)
Choose 15 courses from any division to complete your program. Consider using these free options (along with the Y1 options, if applicable) to fulfill requirements for a second major.

Minor in Biology (18 credits)

BIO196 Introductory Cellular and Molecular Biology
BIO 197 Evolution of Life
BIO 205 Diversity of Life 1
BIO 206 Diversity of Life 2
BIO 207 Ecology
BIO 208 Genetics
Two additional Biology courses

Biodiversity and Ecology Concentration Options

BIO 245 Field Biology
BIO 319 History of Biology
BIO 321 Biogeography
BIO 327 Advanced Ecology
BIO 329 Invertebrate Biology
BIO 330 Ornithology
BIO 331 Freshwater Biology
BIO 332 Vertebrate Zoology
BIO 337 Animal Physiology 2
BIO 345 Plant Physiology
BIO 349 Medical and Forensic Entomology
BIO 352 Microbiology
BIO 354 Insect Biodiversity
BIO 357 Vascular Plant Systematics
BIO 358 Animal Behaviour
BIO 367 Ichthyology: The World of Fishes
BIO 386 Science Writing
BIO 392 Experiential Learning in Life Sciences
BIO 393 Evaluating Scientific Evidence
BIO 412 Seminars in Life Sciences
BIO 442 Bioethics
BCH 313 Metabolism
ESG 262 Introduction to GIS
ESG 250 Geomorphology
ENV 241 Environmental Chemistry I
ENV 242 Environmental Chemistry II
ENV 337 Economics of the Environment
ENV 375 Environmental Physics
ENV 475 Ecological Economics

**Please note that many courses have associated labs, featuring the same course number and the BIL code, as indicated in the individual course descriptions. Lab credits do not count towards the total credit requirements of the program. The associated (co-requisite) lab must be completed to receive credit for the course.*

Note: A course can only count under one category. For instance, if you took BIO 257 as a required concentration course, it cannot be counted as one of your concentration options.

COURSES

PLEASE NOTE: The following list of courses represents those courses which are normally offered by the Department of Biological Sciences. However, some courses alternate and thus are only available every second year. The schedule of such courses is indicated below the course description. Some courses that are not required in Biology programs are not offered on a regular basis. Such courses are indicated with an asterisk (*).

BIO 111 Organic Gardening 3-3-0

This course is an introduction to organic and environment-friendly gardening, combining lectures and a hands-on-practicum. Principles of companionship, growth, water and mineral balance will be discussed. Students will learn how to recognize and treat diseases, pests or common physiological disorders with environmentally natural techniques. At the end of this course, students should be able to set-up and run a garden using environment-friendly techniques and know how to harvest, handle and store crops. Depending on the interests of the group, the course will either cover transformation strategies for year-long storage of vegetables grown in the summer (canning, freezing, fermentation, drying…), or make an introduction to entrepreneurship in organic farming (based on the instructor's own experience). In addition, several visits will be organized to locally run organic farms to present various models of environment-friendly productions of veggies, fruits and herbs.

Note: This course is open to the general public and may be taken by non-DNS students for science credit. However, students in any of the science majors may only take this course as a free elective, and may not count this course for science credit. It is offered in the spring semester.

Co-requisite: BIL 111

BIL 111 Organic Gardening Lab 1-0-3

This is the practical component of the course, where students will apply in practice what they have discussed in lecture and actually grow and harvest their own crops. Depending on the interest of the class, students will also be expected to either process and preserve their crops for long term storage, or set-up a long term strategy for their own hypothetical organic garden.

Co-requisite: BIO 111

BIO 131 The Human Body in Health and Disease 3-3-0

An introduction to human anatomy and physiology. This course will employ problem-based learning, virtual experiments, and traditional lectures to explain the relationship between the structure of the human body and its functions. These concepts will then be applied to the study of representative human diseases. This course is designed for students with minimal biology backgrounds, including arts students, teachers, coaches, and home-care workers. Students will acquire a working knowledge of human biology and the ability to communicate this knowledge to others.

Prerequisites: Secondary school Biology and/or Chemistry recommended

Note: This course cannot be taken for credit by students in Biology or Biochemistry or by students with credit for BIO 233

Professor Hull

BIO 193b Introductory Biology for Education Students 3-3-0

BIO193b has essentially the same course content as BIO194a but is designed for education students to provide them with the knowledge for teaching biology in elementary schools.

This course cannot be taken for credit by anyone who already has credit for BIO 191,BIO 194, BIO 196, BIO197, BIO 199 or PBI 191.

Prerequisites: Secondary school Biology and/or Chemistry are recommended

Co-requisite: BIL 193b

Staff

BIL 193b Introductory Biology Laboratory for Education Students 1-0-3

Exercises and experiments in Introductory Biology, designed for Education students.

This course cannot be taken for credit by anyone who already has credit for BIL 191 or BIL199.

Co-requisite: BIO 193b

Staff

BIO 194 Introductory Biology for the Social and Human Sciences 3-3-0

This course provides an introduction to biology for students without a strong science background. Topics include: Scientific method, chemistry of life, cell structure, cell metabolism, photosynthesis, transport systems, origin of life, evolution, genetics, reproduction, taxonomy, diversity of life (including microorganisms, fungi, plants and animals), ecosystems. this course cannot be taken for credit by students in a B.Sc. program of B.A. Biology. It is not a sufficient prerequisite for more advanced Biology courses.

Prerequisites: Secondary school Biology and/or Chemistry are recommended.

This course cannot be taken for credit by anyone who already has credit for collegial Biology NYA, BIO 191, BIO 193, BIO 196, BIO 197, BIO 199 or PBI 191.

BIO 196a Introduction to Cellular and Molecular Biology 3-3-0

Topics covered include: chemistry of life; structure and function of biomolecules; structure and organization of cells; structure and function of organelles, genetic replication and expression; gene mutation; cell signaling; regulation of the cell cycle. This course is intended for B.Sc. students and B.A. (Biology) students; other students are encouraged to take BIO 194b (The Study of Life).

Prerequisite: High School Biology and Chemistry

This course cannot be taken for credit by anyone who already has credit for collegial General Biology 2/00XU, Biology 191, Biology 193, Biology 199 or PBI 191

Corequisite: BIL 196a

Professor Chamoux

BIL 196a Introduction to Cellular and Molecular Biology Laboratory 1-0-3

Practical exercises in microscopy, molecular and cellular biology, and histology.

Prerequisites: High School Biology and Chemistry; Co-requisite: BIO 196a

Staff

BIO 197b The Evolution of Life 3-3-0

This course will explore evolution and how it has helped shape our understanding of the natural world around us. It will start by looking at how the theory of evolution by natural selection came about. Natural selection and speciation will then be explored in greater detail, with a particular focus on species interactions and how these help to form the complex web of ecological relationships that help maintain biological systems today. The course will then conclude with a brief history of life on earth, from the earliest known life, through a repeated series of mass extinctions and adaptive radiations, to the present biomes and biodiversity we know today. This course is intended for B.Sc. students and B.A. (Biology) students; other students are encouraged to take BIO 194b (The Study of Life).

Prerequisite: BIO 196a or consent of the instructor.

This course cannot be taken for credit by anyone who already has credit for collegial Biology NYA, Biology 191, Biology 193, Biology 194, Biology 199 or PBI 191.

Professor Richardson

BIO 201a Cellular and Molecular Biology 3-3-0

Topics in modern cell biology. Examines aspects of eukaryotic cell structure and function. Includes, but not restricted to, areas such as intracellular signaling, cell cycling and cancer, cell-matrix interactions, endo/exocytosis, protein targeting and organelle biogenesis.

Prerequisites: BIO 191 or BIO 196a or collegial general Biology 2/00XU

This course may not be taken for credit by anyone who already has credit for Biology 110.

Professor Chamoux

BIO 205a Diversity of Life I 3-3-0

This course offers a thorough exploration of one branch of the tree of life, that occupied by multicellular animals. The course complements Diversity of Life II, a winter-term course with a focus on prokaryotic and non-animal eukaryotic life. The material in both courses is organized according to a modern phylogenetic framework. In this course students will learn about phylogenetic hypotheses and evidence, and they will study how classifications are created, tested, and, where necessary, rejected. Focusing on animals, we will discuss many of the morphological and physiological adaptations that have arisen. The evolutionary implications of some features, such as bilateral symmetry and the notochord, will be discussed more thoroughly. Recent advances as well as current contentious issues in animal classification will also be examined.

Prerequisite: BIO 191 or BIO 197 or equivalent; Co-requisite: BIL 205a

Students with credit for BIO 115 cannot also receive credit for BIO 205.

Professor Savage

BIL 205a Diversity of Life I Laboratory 1-0-3
The classification, identification, morphology and biology of the animals considered in BIO 205a.
Co-requisite: BIO 205a
Students with credit for BIL 115 cannot also receive credit for BIL 205.
Professor Boulet

BIO 206b Diversity of Life II 3-3-0
Like its companion course BIO 205a, this course explores the tree of life, but from a less animal-centric view. We study the prokaryotes at the root of the tree, responsible for more than half of the earth's biomass. Next, we examine the branch that contains all fungi (and lichens). The various protists and those algae that are not related to green plants form other branches, which we will also explore. Finally, we study in more detail the largest group of eukaryotes by biomass, the green plants. The material in this course (and in BIO 205a) is organized according to a modern phylogenetic framework. The focus will be on diversity, function and ecological importance. In the case of the green plants, we look at the reasons for the tremendous ecological success of this form of life. We examine photosynthesis, transport, reproduction and life cycles, and evolution, empathizing ecological relevance.
Prerequisite: BIO 191 or BIO 197;Co-requisite: BIL 206b
Students with credit for BIO 116 cannot also receive credit for BIO 206.
Professor van Hulst

BIL 206b Diversity of Life II Laboratory 1-0-3
A series of experiments and exercises to complement BIO 206b.
Co-requisite: BIO 206b
Students with credit for BIL 116 cannot also receive credit for BIL 206.
Staff

BIO 207a General Ecology 3-3-0
An introduction to modern ecology: environmental patterns, patterns in the distribution of plants and animals, evolution and adaptation, ecosystem function, plant and animal populations, species interactions, community organization, applied ecology.
Prerequisite: BIO 191 or BIO 197; Co-requisite: BIL 207a
Students with credit for BIO 117 cannot also receive credit for BIO 207.
Professor van Hulst

BIL 207a General Ecology Laboratory 1-0-3
Experiments and exercises in General Ecology.
Co-requisite: BIO 207a
Students with credit for BIL 117 cannot also receive credit for BIL 207.
Professor van Hulst

BIO 208b Genetics 3-3-0
An introduction to the study of biologically inherited traits from three perspectives. (i) Mendelian Genetics: the rules of genetic transmission and heredity. (ii) Molecular Genetics: the biochemical and chromosomal basis of heredity. (iii) Population & Evolutionary Genetics: the variation in genes amongst individuals and populations, heritability, and changes in genes over time.
Prerequisite: BIO 110 or BIO 196; Co-requisite: BIL 208b
Students with credit for BIO 118 cannot also receive credit for BIO 208.
Professor Boulet

BIL 208b Genetics Laboratory 1-0-3
Experiments in genetics designed to complement topics discussed in BIO 208b.
Co-requisite: BIO 208b
Staff

BIO 212b Evolution 3-3-0
Possibly the greatest single theory in modern science, evolution influences all aspects of biology from wildlife management to modern medicine. This course will examine both the patterns of evolution as well as the mechanism.
Prerequisite: BIO 191a or BIO 197b
Professor Richardson

BIO 233 Human Anatomy 3-3-0
The anatomy of all of the major body systems will be discussed in the context of human health and disease. This course is designed for students interested in the biomedical sciences or health education. Students will develop their understanding of human anatomy and will acquire the ability to communicate scientific concepts to their patients or students.
Prerequisite or Corequisite: BIO 191 or BIO 196
This course cannot be taken for credit by anyone who already has credit for BIO 131, BIO 132, or BIO 133
Professor Hull

***BIO 245a Field Biology I* 4-5-30**
An intensive, three-week long course in which participants study a wide range of habitats to gain familiarity with plants and animals in the field and to learn methods of field study. Physical aspects of the environment relating to the biota are studied, as well as the plants and animals and their interactions with one another and their environment. Living organisms are brought to the laboratory for further study. Instruction is given five full days per week during a three-week period. Areas of instruction: Mosses and Lichens; Terrestrial Mammals; Insects.
Prerequisite: Bio 191 or BIO 197or equivalent
Staff

BIO 319 History of Biology 3-3-0
An outline of biological discovery from early times to the present in relation to social, historical and cultural developments.
Prerequisites: BIO 205 and BIO 208
Students with credit for BIO 220 cannot receive credit for BIO 319.
Staff

BIO 320a Programmed Cell Death 3-3-0
Programmed cell death, also called apoptosis, is a normal physiological process that takes place in every type of cell in the animal kingdom. It plays a critical role in embryo development, in selective processes (immune system), in degenerative diseases and in cancer. Since the early 90's, programed cell death is one of the fastest growing subject of research, with almost 15000 scientific publications in 2004. In this course, we will explore normal and impaired mechanisms involved in cell death, through examples taken in human medicine or in invertebrates' development.
Prerequisite: BIO 201 or BIO 110
Offered in even-numbered winters
Professor Chamoux

BIO 321b Biogeography 3-3-0
The main goals of this course are to study spatial patterns of biodiversity and to attempt to reconstruct the origin and the present distribution of both extinct and extant taxa. We start by examining the modern distribution of selected groups of plants and animals, as well as the distribution and limits of the major biomes. We proceed with an overview of the major changes in the earth's climate and topology through geological times, and conclude with the impact of these historical changes on the evolution and the distribution of plants and animals. Techniques in biogeographical analysis will be taught and the students are expected to carry out a group project on the biogeographic history of a specific group of plants or animals. Topics such as extinction, adaptive radiation and island biogeography will also be covered.
Prerequisite: BIO 205a
Pre or Co-requisite: BIO 212 or BIO 197
Students with credit for BIO 221 cannot receive credit for BIO 321.
Offered in odd-numbered winters
Professor Savage

BIO 327b Advanced Ecology 3-3-0
A second course in ecology that focuses on understanding relations between animals, plants, and microbes. Topics include: population growth and regulation, variation in space and time, predation (including herbivory and adaptations to avoid being eaten), parasitism and disease, symbiosis and mutualism, life history variation, regulation and manipulation of abundance, disturbance, food webs, colonization, conservation, and population viability analysis.
Prerequisite: BIO 207a; Co-requisite BIL 327b
Students with credit for BIO 217 cannot receive credit for BIO 327.
Offered in odd-numbered autumns
Professor van Hulst

BIL 327b Advanced Ecology Laboratory 1-0-3
Laboratory exercises to accompany Advanced Ecology. We will use 10 exercises in conservation biology using the computer application RAMAS EcoLab. These incorporate real-world ecological problems, and will give the student experience in dealing with complex systems, as well as teaching valuable notions in applied ecology.
Co-requisite: BIO 327b
Students with credit for BIL 217 cannot receive credit for BIL 327.
Professor van Hulst

BIO 329b Invertebrate Biology 3-3-0
Morphology, physiology, embryology, evolution and classification of invertebrate animals.
Prerequisite: BIO 205a; Co-requisite: BIL 329b
Students with credit for BIO 248 cannot also receive credit for BIO 329.
Professor Savage

BIL 329b Invertebrate Biology Laboratory 1-0-3
The classification, identification, morphology and biology of the animals considered in BIO 329b.
Co-requisite: BIO 329b
Students with credit for BIL 248 cannot also receive credit for BIL 329.
Professor Savage

BIO 330* Ornithology 3-3-0
An introduction to the study of birds, including their structure, function, reproduction, evolution and classification. The integration of morphological, physiological, and behavioral adaptations will be emphasized. In addition, topics of particular relevance to birds such as mechanisms of flight, migration, vocal communication, and conservation will be discussed.
Prerequisite: BIO 205a; Co-requisite: BIL 330
Staff

BIL 330* Ornithology Laboratory 1-0-3
Study of bird morphology using preserved specimens and museum study skins. Field trips will be used to learn about living birds and their identification.
Prerequisite: BIO 205a; Co-requisite: BIO 330
Staff

BIO 331a* Freshwater Biology 3-3-0
This course will expose students to the biological importance and diversity of freshwater systems. Class material will look at both the biotic and abiotic components of aquatic systems as well as their interactions.
Prerequisite or Co-requisite: BIO 205a; BIO 207a; Co-requisite: BIL 331a
Students with credit for BIL 230 cannot also receive credit for BIL 331.
Professor Richardson

BIL 331a* Freshwater Biology Lab 1-3-0
The lab section will focus on the different techniques necessary for sampling both lentic and lotic systems. Emphasis will be placed on practical first-hand experience using the appropriate equipment in the field. The process of data collection will culminate in the students performing a mini-research project on a local aquatic system of their choice and presenting these data to their peers.
Prerequisite or Co-requisite: BIO 205a; BIO 207a; Co-requisite: BIO 331a
Students with credit for BIL 230 cannot also receive credit for BIL 331.
Professor Richardson

BIO 332a Vertebrate Zoology 3-3-0
Evolution, classification, morphology, and physiology of the various classes of vertebrates. Particular attention will be placed upon the integumentary, skeletal, muscular, respiratory, digestive, excretory, and reproductive systems.
Prerequisite: BIO 205a; Co-requisite BIL 332a
Students with credit for BIO 270 cannot also receive credit for BIO 332.
Professor Richardson

BIL 332a Vertebrate Zoology Laboratory 1-0-3
The lab component will expose students to the diversity of vertebrates around them. Vertebrate diversity and behavior will be studied through a series of field trips, while basic anatomy will be examined in more detail in the lab through dissections and preserved mounts.
Prerequisite: BIO 205a; Co-requisite: BIO 332a
Students with credit for BIL 270 cannot also receive credit for BIL 332.
Professor Richardson

BIO 336a Animal Physiology I 3-3-0
Basic mechanisms of homeostatic regulation. Topics include: Cell physiology, Nervous system, Muscular system, and the Cardiovascular system.
Prerequisite: BIO 196 or BIO 110; Co-requisite: BIL 336a
Students who have received credit for BIO 226a cannot also receive credit for BIO 336a.
Professor Hull

BIL 336a Animal Physiology I Laboratory 1-0-3
Experiments designed to examine the physiological systems discussed in BIO 336a.
Co-requisite: BIO 336a
Students who have received credit for BIL 226 cannot also receive credit for BIL 336.
Professor Hull

BIO 337b Animal Physiology II 3-3-0
Mechanisms of functional operation of animal organisms. Topics include: renal, respiratory, gastrointestinal, and reproductive function.
Prerequisite: BIO 336a; Co-requisite: BIL 337b
Students who have received credit for BIO 228 cannot also receive credit for BIO 337.
Professor Hull

BIL 337b Animal Physiology II Laboratory 1-0-3
Experiments dealing with different aspects of animal physiology. Some experiments will be performed using computer simulations.
Co-requisite: BIO 337b
Students who have received credit for BIL 228 cannot also receive credit for BIL 337.
Professor Hull

BIO 340 Comparative Anatomy 3-3-0
This course will use a comparative approach to help students understand vertebrate anatomy. Students will explore the evolution of major organ systems within the vertebrates, using both dissection and preserved material. Students should be prepared to both take lecture notes and dissect specimens every class.
Prerequisites: BIO 233 or BIO 332

BIO 345b Plant Physiology 3-3-0
Nutrition, transport, growth and development in plants; the water relations of plants; mineral nutrition; growth regulators; tropisms; photoperiodism; vernalization and dormancy.
Prerequisite: BIO 206b
Offered in odd-numbered winters
Professor van Hulst

BIO 349b Medical and Forensic Entomology 3-3-0
As one of the most important group of disease vectors, insects and other arthropods are involved in the transmission of numerous pathogens causing diseases such as malaria, the plague, sleeping sickness, scabies, West Nile fever, and Lyme disease. This course will introduce students to some of the basic concepts of medical entomology with a focus on selected diseases. Information on the life cycles of insect vectors and the pathogens they carry is presented, as well as symptoms, treatment and geographical distribution of selected arthropod-borne diseases. The relevance of entomological evidence in criminal investigations (such as the use of insects to determine post-mortem interval is also discussed.
Prerequisite BIO 205a
Professor Savage

BIO 352a Microbiology 1-0-3
An introduction to prokaryotic microorganisms, eukaryotic microorganisms, and viruses; their ecology, growth characteristics, and host interactions. Examination of the environmental roles of microbes as well as their impact on the human world.
Prerequisite: BIO 195a; Co-requisite: BIL 352a
Offered in odd-numbered autumns.
Professor Stroeher

BIL 352a Microbiology Laboratory 1-0-3
An introduction to common microbiological techniques used in medical, biological and biochemical research, including techniques in growth, staining and identification of bacteria and viruses. As well, the diversity of physiological and metabolic requirements of bacteria will be examined.
Co-requisite: BIO 352a
Offered in odd-numbered autumns
Professor Stroeher

BIO 354 Insect Biodiversity 3-3-0
With close to a million described species, insects form more than 70% of animal diversity. But in spite of such overwhelming diversity they are poorly known and consequently often excluded from biodiversity studies. The main goal of this course is to teach the students how to collect, preserve and identify insects, especially those found in eastern North America. In addition to using material housed in the Bishop's insect collection, material collected in the field by each student will be prepared in a fashion that will make the specimens museum worthy. Through the collecting and identification process, students will learn about insect taxonomy but they will also learn about where different taxa can be found and what their general ecological requirements are. Once they have competed the course, students should be able to identify most commonly encountered insects at least to the family level and recognize those that are beneficial or potentially harmful.
Prerequisite: BIO 205a
Offered in even-numbered autumns
Professor Savage

BIO 357a Vascular Plant Systematics 3-3-0
Evolution, taxonomy, morphology, and anatomy of the vascular plants.
Prerequisite: BIO 206b; Co-requisite: BIL 357a
Offered in even-numbered winters
Students with credit for BIO 257 cannot also receive credit for BIO 357.
Professor van Hulst

BIL 357a Vascular Plant Systematics Laboratory 1-3-0
Exercises in identification and classification of vascular plants: use of floras and identification keys, computer keys, and programs for numerical classification; morphology and anatomy of vascular plants.
Co-requisite: BIO 357a
Students with credit for BIL 257 cannot also receive credit for BIL 357.
Professor van Hulst

BIO 358b Animal Behaviour 3-3-0
The study of animal behaviour represents the oldest known form of biological study. Even from our earliest beginnings, humans had an intense interest in understanding how animals behave. This interest is still evident from our almost instinctive need to share our homes with various pets. This course will build on this most basic need to watch and understand animal behaviour, but will do so from a more scientific approach.
Prerequisite: BIO 205a, BIO 207a; Co-requisite: BIL 358b
Offered in odd-numbered winters
Professor Richardson

BIL 358b Animal Behaviour Labs 1-0-3
Using videos and experimental labs, students will further explore many of the concepts and topics discussed in the class.
Co-requisite: BIO 358b
Offered in odd-numbered winters.
Professor Richardson

BIO 359a Human Genetics 3-3-0
Cytogenetics, biochemical genetics, Mendelian genetics, molecular genetics and quantitative genetics of humans; chromosome mapping; genetics and medicine.
Prerequisite: BIO 208b
Offered in even-numbered autumns
Staff

BIO 365b Developmental Biology 3-3-0
Examination of the molecular events involved in the development of vertebrates, invertebrates and plants, emphasizing common strategies used in these three systems. Topics will include establishment of body axes, origin of germ layers, and segmental pattern formation. The role of developmental genes, regulatory gene families, and maternal effect genes will be emphasized. Morphogenesis and early cell differentiation will also be studied.
Prerequisite: BIO 196a or BIO 110; BIO 208b
Offered in even-numbered winters
Professor Stroeher

***BIO 367a Ichthyology: The World of Fishes 3-3-0**
A survey of fishes of the world. Fish taxa representing freshwater, marine, temperate, tropical and deep sea forms will be examined in terms of their morphology, phylogeny, behaviourial ecology and community structure. Adaptations associated with the successful occupation of diverse aquatic habitats within the group as a whole will be discussed. In addition, within-taxa global distribution patterns will be examined in light of current theories regarding plate tectonics and zoogeography.
Prerequisite: BIO 205a; Co-requisite: BIL 367a
Professor Richardson

BIL 367a Ichthyology Laboratory 1-0-3
The identification of fishes, with the use of keys based on the characteristics of major groups. Practical techniques will include the preservation, clearing and staining of whole fishes for skeletal features. Other laboratory exercises will include examinations of fish anatomy, behaviour and development.
Prerequisite: BIO 205a; Co-requisite: BIO 367a
Offered in even-numbered years
Professor Richardson

BIO 386a Scientific Writing 3-3-0
Lectures will introduce the scientific method and train students to critically read the scientific literature. Detailed examples of a written paper will then follow with step-by-step instructions. Data analysis, word processing and citation methods will be reviewed. In addition to written manuscripts, poster and oral presentations will be discussed.
Prerequisite: This course is normally open to Y3 or Y4 students by permission of departmental chair or instructor.
Students with credit for BIO 272 cannot also receive credit for BIO 386.
Staff

BIO 391 Experiential Learning in Health Sciences and Biochemistry 3-3-0
Students in the Health Science or Molecular Biology program may receive credit for working under the tutelage of a mentor in a field directly related to their area of study. Students must secure both an internal supervisor (a fulltime faculty member) and a suitable mentor (i.e. external supervisor who will supervise the day to day activities of the student). Students must be actively involved in the daily work and should not be acting as menial labor.
Assessment of the student will be based largely on a mark assigned by the mentor directly responsible for the student and the submission of a journal outlining the daily objectives and actual work itself. Projects may be intensive in nature (i.e. 3 weeks during the summer), or may be more drawn out (i.e. 6-8 hours every week during the semester).
This course is only eligible to students in good standing and if available positions are available. Students may not work for salary and may not work concurrently in an area directly related to their honors project.
Note: Students may only take one experiential learning course for credit (i.e. BIO 391 or BIO 392 or ELP 300).
Coordinator: Professor Savage

BIO 392 Experiential Learning in Life Sciences 3-3-0
Students in the Diversity Form and Function or the Environmental Biology program may receive credit for working under the tutelage of a mentor in a field directly related to their area of study. Students must secure both an internal supervisor (a fulltime faculty member) and a suitable mentor (i.e. external supervisor who will supervise the day to day activities of the student). / Students must be actively involved in the daily work and should not be acting as menial labor.
Assessment of the student will be based largely on a mark assigned by the mentor directly responsible for the student and the submission of a journal outlining the daily objectives and actual work itself. Projects may be intensive in nature (i.e. 3 weeks during the summer), or may be more drawn out (i.e. 6-8 hours every week during the semester).
This course is only eligible to students in good standing and if available positions are available. Students may not work for salary and may not work concurrently in an area directly related to their honors project.
Note: Students may only take one experiential learning course for credit (i.e. BIO 391, or BIO 392 or ELP 300).
Coordinator: Professor Savage

BIO 393a Evaluating Scientific Evidence 3-3-0
In science we often have to decide whether data favor one hypothesis or another. This is easy if our evidence excludes all but one hypothesis. In practice we often face a harder task: several hypotheses remain that are compatible with the data, although one may seem the more "likely" one. How de we evaluate which one is more likely in the light of the data, and what exactly does "more likely" mean here? This course examines tools designed to help us in selecting the hypothesis that receives most support from the data: Neyman-Pearson P-values, Fisherian P-values, Bayesian posterior probabilities, confidence intervals, Bayesian credible intervals, and information-based criteria like AIC and BIC. You will learn how to calculate and how to interpret P-values and true measures of evidence, and how to use them in your own research.
Prerequisite: PHY101a
Offered in even-numbered autumns
Students with credit for BIO 291 cannot also receive credit for BIO 393.
Professor van Hulst

BIL 393a Planning and Analysis of Biological Experiments Laboratory 1-0-3
The laboratory provides hands-on training in setting up experiments and analyzing their results using the open-source statistical language R. This is widely used in both academic and industrial settings, is powerful, and is freely available. It provides many tools for experimental design, data analysis, and graphical presentation.
Corequisite: BIO393a
Students with credit for BIL 291 cannot also receive credit for BIL 393.
Professor van Hulst

BIO 394b Biology of Cancer 3-3-0
This course will review the broad subject of cancer development and treatment. In particular it will focus on taking concepts seen in cell biology and applying them to cancer cells. Among the topics reviewed will be: cancer types and staging, mutation rates and environmental contributions to genetic changes, oncogenes and tumor suppressors, cell proliferation/death balance, modification of cancer cells phenotypes and metastases formation, role of the immune system in the prevention of cancer spreading, strategies of cure, and a review of the body's physiological responses to several forms of cancer.
Prerequisites: BIO 336 AND either BIO 110 or BIO 201
Offered in odd-numbered winters
Students with credit for BIO 224 cannot receive credit for BIO 394
Professor Chamoux

BIO 411b Seminars in Health Sciences 3-3-0
An advanced course discussing current topics in the Health Sciences. Students will be expected to critically evaluate recent scientific literature, prepare and deliver oral and written presentations, participate in discussions, and analyze research questions.
Pre-requisites: BIO 208 AND BIO 336
Restricted to students in year 3 or 4 (i.e. with less than 60 credits remaining of a B.Sc. Biology degree)

BIO 412* Seminars in Life Sciences 3-3-0
This course will discuss recent developments in specific areas of ecology, conservation, and/or zoology. The course content will vary from year to year, depending on the instructor's area of expertise and the students' interests.
Prerequisite: BIO 205a, BIO 207a
Students with credit for BIO 362 cannot also receive credit for BIO 412.
Staff

BIO 421a Independent Studies in Biology I 3-1-3
This course is intended for final-year students who wish to pursue in-depth study of a particular area of biology or who have a special need for a biology course that would otherwise not be available during their final semester of course work. This course can only be done in close collaboration with a faculty advisor from within the Department of Biological Sciences, and may not be used as a supplement to a student's honours project. Requirements for this course will be agreed upon by at least three professors from within the Department of Biological Sciences.
Pre-requisite: Consent of a member of the Department of Biological Sciences
Students with credit for BIO 371 cannot also receive credit for BIO 421.
Coordinator: Professor Savage

BIO 422b Independent Studies in Biology II 3-1-3
This course represents an additional semester of independent work, either a continuation of or a separate course from BIO 421a, meant for final-year students who wish to pursue in-depth study of a particular area of biology or who have a special need for a biology course that would otherwise not be available during their final semester of course work. This course can only be done in close collaboration with a faculty advisor from within the Department of Biological Sciences, and may not be used as a supplement to a student's honours project. Requirements for this course will be agreed upon by at least three professors from within the Department of Biological Sciences.
Pre-requisite: Consent of a member of the Department of Biological Sciences
Students with credit for BIO 372 cannot also receive credit for BIO 422.
Coordinator: Professor Savage

BIO 428b Advanced Physiology 3-3-0
This course will examine how animals adapt to environmental stresses such as extremes of temperature of altitude, hypoxia, water limitation and dietary changes. Short-term (acute), medium-term (acclimatory) and chronic (evolutionary) adaptations will be discussed.
Pre-requisite: BIO 336a; Pre-or Co-requisite: BIO 337b
Offered in even-numbered winters
Students with credit for BIO 328 cannot also receive credit for BIO 428.
Professor Hull

BIO 433b Advanced Exercise Science 3-3-0
This course examines selected topics in Exercise Physiology. Through traditional lectures, directed readings, seminars, and case studies, students will study short-term and long-term adaptations to exercise. We will also examine the scientific principles underlying sports-related topics such as optimizing exercise performance, injuries, and injury repair.
Prerequisite: BIO 336 or Exercise Science 127 or Exercise Science 128
Offered in odd-numbered winters
Students with credit for BIO 333 cannot also receive credit for BIO 433.
Note: See Exercise Science 433. Students may not take this course for credit if they have received credit for EXS 433.
Professor Hull

BIO 442b Bioethics 3-3-0
Ethical aspects of modern biology, biotechnology, and medicine. Topics to be discussed: Use and abuse of biology, Transgenics and the changing world, Medical science today, Biology and Culture, Sociobiology, Limits to scientific inquiry. The animal rights controversy, cloning controversy, ethical imperatives, environmental issues, and medical ethics will be explored.
Prerequisite: BIO 110a or BIO 201a
Note: This course restricted to Biology, Biochemistry and Chemistry majors. Limited enrolment.
Students with credit for BIO 252 cannot also receive credit for BIO 442.
Professor Stroeher

BIO 492b Honours Biological Problems 3-1-6
An introduction to the planning, execution and reporting of biological research. Each student is required to choose a research problem and, in consultation with a departmentally approved supervisor, draw up a formal research proposal of work to be undertaken. The final mark in this course will be based on the research proposal, preliminary research completed on the stated project, and presentation of a poster during the final week of classes. Satisfactory completion of BIO 492 with a minimum mark of 75% is required for enrollment in BIO 493.
Prerequisite: Permission of course coordinator. (Dr. Savage)
Co-requisite or prerequisite: BIO 386a
Students with credit for BIO 362 cannot also receive credit for BIO 492.

BIO 493 Advanced Honours Biological Problems 3-1-6
A continuation of BIO 491, in which the student will complete all research as outlined in the research proposal. The final mark in this course will be based on the quality and amount of research completed, presentation of a departmental seminar during the final week of classes, open to the public, based on research findings, and submission of a final written honours thesis. Enrollment in BIO 493 is conditional upon completing BIO 492 with a minimum mark of 75%.
Students with credit for BIO 463 cannot also receive credit for BIO 493.

Cognate course

BCH 381 (Immunology is a cognate Biology course and can count towards the Life Science concentration options.

Chemistry

The Chemistry Department offers three distinct programs — Chemistry Honours, Chemistry Major, and Chemistry Minor. All of our programs provide students with a balanced, rich, and practical education in all sub-disciplines of Chemistry (Analytical, Biochemical, Environmental, Inorganic, Organic, and Physical) and students graduating with a Chemistry degree from Bishop's University have had an excellent record of being admitted to graduate schools and professional programs (Medicine, Dentistry, Pharmacy, Education, etc.) or in finding employment in their field.

Class sizes in chemistry courses are small, which promotes close personal interaction between members of the faculty and students. The faculty are also directly involved in all undergraduate laboratories, which enhances personal contact and results in a friendly and very productive learning experience in experimental chemistry.

The Chemistry Department has an excellent set of modern instruments, such as a MHz NMR, and a GC/MS, which are used by undergraduates in their laboratory courses and in research projects. This is in contrast to large universities where many instruments are reserved for graduate students. Hands-on, extensive training on this modern instrumentation and equipment greatly, benefits our students and ensures that they are very well prepared for graduate studies or future employment.

Entrance Requirements

All students at Bishop's University are enrolled in a 120-credit, four-year program. Students who have a Quebec collegial diploma (D.E.C.) in science, or the equivalent, including Mathematics NYA, NYB, Physics NYA, NYB, Chemistry NYA, NYB, and Biology NYA will be granted up to 30 credits toward their program requirements. Students entering a degree program with CEGEP Chemistry BFA and Chemistry BFB can be exempted, after consultation with the departmental chairperson, from the first Organic Chemistry course and lab (CHM 111 and CHL 111) but this course must be replaced by another lecture course in one of the Sciences.

Undergraduate Programs

It is strongly recommended that students enrolled in Department of Chemistry programs follow the order of courses outlined in the tables below. Some Chemistry courses are offered on two-year rotations, so failure to follow the suggested course sequence may result in students not being able to fulfill their degree requirements in the normal time frame.

Programs

Chemistry Honours

The Chemistry Honours program fulfills the academic requirements for membership in the Chemical Institute of Canada and for accreditation by l'Ordre des chimistes du Québec. (For membership in the latter, it is necessary to possess a working knowledge of the French language.) The Chemistry Honours program is a four-year program that prepares a student for graduate studies in chemistry, and, with appropriate electives, for Medicine and Dentistry, as well as for direct professional employment. The program requires 38 three-credit one-semester courses, one 3-credit full year course, and a full year, 6-credit research project in the final year for a total of 120 course credits. In addition, students must also complete the 18 co-requisite lab courses. The Chemistry Honours degree progam is shown in Table 1.

Entrance Requirements for Honours

To be eligible to enter the third year of the Honours Chemistry program, a student must achieve a minimum average of 65% in the required second year Chemistry courses (CHM 111, CHM 211, CHM 121, CHM 131, CHM 231, CHM 141, BCH 210 and all co-requisite labs) to be eligible to enter the final year of the Honours Chemistry program, a student must achieve a minimum average of 65% in the third year required Chemistry courses (CHM 311, CHM 221 or CHM 222, CHM 331, CHM 241 or CHM 242, CHM 341, BCH 313, and all co-requisite labs).

Table 1. Course Sequence for Chemistry Honours

	Fall Semester	Winter Semester
Year 1	CHM 191 / CHL 191	CHM 192 / CHL 192
	MAT 191	MAT 192
	PHY 191 / PHL191	PHY 192 / PHL 192
	BIO 191 / BIL 191	Humanities Option[1]
	ELA 116	Humanities Option[1]
Year 2	CHM 111 / CHL 111	CHM 211 / CHL 211
	CHM 131 / CHL 131	CHM 121
	CHM 141 / CHL 141	CHM 231 / CHL 231
	MAT 206	BCH 210 / CHL 142
	Option[2]	Option[2]
Year 3	CHM 311 / CHL 311	CHM 411 / CHL 300
	CHM 221/ CHL 221 **OR** CHM 222 / CHL 222 **OR** CHM 242 / CHL 241	CHM 241 / CHL 241
	CHM 331 / CHL 331	BCH 313 / BCL 313
	CHM 341 / CHL 341	Option[2]
	Option[2]	Option[2]
Year 4	CHM 221 / CHL 221 **OR** CHM 222 / CHL 222 **OR** CHM 242 / CHL 241	CHM 241 / CHL 241
	CHM 431	CHM 421
	CHM 471[3]	Option[2]
	CHM 499[4]	Option[2]
	Option[2]	

[1] *All Chemistry students must take two Humanities lecture courses from English, History, Classical Studies, Philosophy, Religion, or Liberal Arts in the first year. Students with a D.E.C. may be credited with these options.*

[2] *Chemistry Honours students must take one lecture course from any Humanities or Social Sciences discipline. All other options are free electives.*

[3] *CHM 471 is a full year, 3-credit course.*

[4] *CHM 499 is a full year, 6-credit research project.*

Chemistry Major

The Chemistry Major program prepares students for industrial or other employment that requires an extensive knowledge of chemistry. The program has sufficient flexibility to allow students to obtain a second major or a minor in another academic discipline. The program fulfills the academic requirements for membership in the Chemical Institute of Canada and for accreditation by l'Ordre des chimistes du Québec. (For membership in the latter, it is necessary to possess a working knowledge of the French language.) Students in the Chemistry concentrations of Biochemistry can, by choosing appropriate electives, also meet the accreditation standards of the CIC and the OCQ. The four-year Chemistry Major program requires 40 three-credit one-semester courses, for a total of 120 course credits. In addition, students must also complete the 17 co-requisite lab courses. The Chemistry Major degree program is shown in Table 2. Students in a minor program in another division may, with permission of the Department, increase free options to a maximum of 27 credits, and reduce science options to a minimum, of 6 credits.

Table 2. Course Sequence for Chemisty Major

	Fall Semester	Winter Semester
Year 1	CHM 191 / CHL 191	CHM 192 / CHL 192
	MAT 191	MAT 192
	PHY 191 / PHL 191	PHY 192 / PHL 192
	BIO 191 / BIL 191	Humanities Option1
	ELA116	Humanities Option1
Year 2	CHM 111 / CHL 111	CHM 211 / CHL 211
	CHM 131 / CHL 131	CHM 121
	CHM141 / CHL141	CHM 231 / CHL 231
	MAT 206	BCH 210 / CHL 142
	Option2	Option2
Year 3	CHM 311 / CHL 311	BCH 313 / BCL 313
	CHM 221 / CHL 221 **OR** CHM 222 / CHL 222 **OR** CHM 242 / CHL 241	CHM 241 / CHL 241
	CHM 331 / CHL 331	Option2
	CHM 341 / CHL 341	Option2
	Option2	Option2
Year 4	CHM 221 / CHL 221 **OR** CHM 222 / CHL 222 **OR** CHM 242 / CHL 241	CHM 241 / CHL 241
	Option2	Option2
	Option2	Option2
	Option2	Option2
	Option[2]	Option[2]

[1] All Chemistry students must take two Humanities lecture courses from English, History, Classical Studies, Philosophy, Religion, or Liberal Arts in their first year of study. Students with a D.E.C. may be credited with these options.

[2] Chemistry Major students must take one lecture course from any Humanities or Social Sciences discipline, and four lecture courses (plus any co-requisite labs) from any of the Sciences. All other options are free electives.

Chemistry Minor

A Chemistry Minor will be awarded for the completion of CHM 111, CHM 211, CHM 121, CHM 131, CHM 141, CHM 241 and their co-requisite labs, together with 2 one-semester 3-credit courses (and their co-requisite labs) chosen from CHM 311, CHM 411, CHM 221, CHM 222, CHM 231, CHM 331, CHM 242, CHM 341, or BCH 210. Students taking a Chemistry Minor have a one-lecture course (3 credits) reduction towards the credits necessary for their degree.

Recommended Electives

MAT 207 and MAT 108 and PHY 101 are recommended science options for students who wish to pursue further mathematical and/or statistical studies.

PHY 206 and PHY 206 are recommended for students who have not completed CEGEP physics.

A significant amount of the chemical literature is in German and students, particularly Honours students, are recommended to take a course in German.

Concentrations in Chemistry

Chemistry concentrations are available to students pursuing degrees in Biochemistry and Environmental Science. Further information on these programs can be found in the Biochemistry and Environmental Science sections of this calendar.

Accreditation by l'Ordre des Chimistes du Quebec and the Canadian Institute for Chemistry

The OCQ and CIC are professional orders that oversee and accredit Chemistry, Biochemistry, and related disciplines in Quebec and Canada respectively. In order to meet the accreditation standards of these orders, a student must meet the following criteria.

L'Ordre des Chimistes du Quebec

A student must earn a minimum of 45 credits in Chemistry, of which 12 credits must be for laboratory work. The OCQ considers 3 credits of course work to be the equivalent of 45 hours of class time (3 course credits in Chemistry at Bishop's is 36 hours of class time) and 1 credit of laboratory work to be the equivalent of 45 hours of lab time (1 lab-credit in Chemistry at Bishop's is 40-50 hours). The chemistry credits are divided in the following manner.

1. 6 course credits and 3 lab credits of physical chemistry.
2. 6 course credits and 3 lab credits of analytical chemistry.
3. 6 course credits and 3 lab credits of organic chemistry.
4. 6 course credits and 3 lab credits of inorganic chemistry.
5. 3 course credits of biochemistry.
6. 3 course credits of industrial chemistry (environmental chemistry)
7. 3 course credits of ethics (environmental chemistry)

Canadian Institute for Chemistry

The CIC expects a program to involve a total of about 1000 hours of laboratory and classroom work in chemistry, with the minimum hours of each being about 400. The laboratory hours should be distributed in such a way that every student is exposed to meaningful laboratory experience in at least four (and preferably five) of the five sub-disciplines.

The core program beyond the first-year level shall include the equivalent of a one-year course in at least three of the five sub-disciplines of analytical chemistry, biochemistry, inorganic, organic and physical chemistry, but with a minimum of a one-semester course in each of these sub-disciplines. In addition, there should be a selection of advanced offerings in the core disciplines and in other subjects such as for instance theoretical chemistry, solid state chemistry, natural products, polymers, advanced instrumentation, research thesis, etc. to bring the total number of hours of instruction to that described above. The program must also include the equivalent of at least a one-year course in mathematics (calculus), at least one additional one-semester course in mathematics, statistics or computer science, and at least one full-year course in calculus-based physics. The inclusion of other cognate science subjects as well as some liberal arts requirements is to be encouraged.

Master of Science (M.Sc.) in Chemistry

Entrance Requirements

Students who have completed a Bachelors degree in Chemistry or Chemical Engineering with at least a B average (70%) will be considered for admission into the M.Sc. degree program at Bishop's. If the Bachelor's degree is not the equivalent of an honours Chemistry degree (for example, the student has only completed a major in Chemistry) the student may be required to take additional courses at the Bachelors or Masters level. Students who have been admitted will be assigned, in consultation, a supervisor by the Chair of Chemistry. Current areas of research in the department include synthesis of silicon carbide based semiconducting materials; synthesis of carbon-nitrogen containing heterocycles and their complexation to transition metal centres; organic synthesis and mechanisms.

Course Requirements

The M.Sc. degree requires the successful defense of a thesis (15 credits), participation in the seminar series (18 credits), and the completion of a minimum of 12 credits in course work, plus any additional courses required upon admission (see paragraph above). Course selection is determined in consultation with the thesis supervisor and departmental chair. All M.Sc. students must make an oral presentation and defense of their thesis before graduating. The normal period for completion of the M.Sc. degree requirements is two academic years (four semesters). The minimum number of graduate level credits required to complete the program is 45.

Students enrolled in the M.Sc. in Chemistry at Bishop's University can also enroll in graduate courses offered by the Department of Chemistry at l'Université de Sherbrooke. Please note that instruction in these courses is in French, but that course texts are generally in English. Students enrolled in graduate courses at UdeS are entitled to write assignments, exams, and any other course requirements in either official language (French and English).

Course Prerequisites

The normal prerequisites for each course are listed. Students not having the appropriate prerequisite may be admitted to a course with permission of the instructor.

Chemistry Courses

General Chemistry

CHM 191a General Chemistry I 3-3-0
A course for students lacking Collegial Chemistry NYA or its equivalent.
Atoms, molecules, and ions. Chemical formulae and equations. Thermochemistry. Gases. Electronic structure of atoms. Periodic Table and properties of elements. Chemical equilibrium. Physical properties and structure. Liquids and solids. Phase equilibria.
Co-requisite: CHL 191.
Dr. Wood

CHL 191a Introductory Chemistry Laboratory I 1-0-4
A series of experiments in Introductory Chemistry to complement Chemistry 191a which must be taken concurrently.
Co-requisite: CHM 191.
Professor Gagnon

CHM 192b General Chemistry II 3-3-0
A course for students lacking Collegial Chemistry NYB or its equivalent.
Solutions. An introduction to thermodynamics. Chemical bonding. Molecular shapes. Kinetics. Ionic equilibria. Electrochemical cells. Nuclear reactions. An introduction to Organic Chemistry.
Prerequisites: CHM 191 (or permission of instructor) or Collegial Chemistry.
Co-requisite: CHL 192.
Dr. Wood

CHL 192b Introductory Chemistry Laboratory II 1-0-4
A series of experiments in Introductory Chemistry to complement CHM 192b which must be taken concurrently.
Co-requisite: CHM 192.
Professor Gagnon

Organic Chemistry

CHM 111a Organic Chemistry I: Introductory 3-3-0
An introductory structural survey of the most commonly encountered organic functional groups that are present in carbon compounds, emphasizing their significance in biologically important molecules (lipids, carbohydrates, amino acids, proteins, steroids, and other types of natural products). Stereochemistry and the fundamental principles behind essential organic reaction mechanisms will be stressed throughout. Some basic definitions and nomenclature will be introduced.
Prerequisites: CHM 191 and CHM 192 or Collegial Chemistry NYA and NYB.
Co-requisite: CHL 111.
Dr. Yeats

CHL 111a Organic Chemistry Laboratory I 1-0-4
Experiments in the separation and purification of organic compounds including the use of chromatography. Introduction to functional group analysis and organic synthesis.
Co-requisite: CHM 111.
Dr. Yeats

CHM 211b Organic Chemistry II: Introductory 3-3-0
This course is a continuation of Chemistry 105a and will elaborate upon the chemistry of the organic functional groups and their involvement in organic synthesis, emphasizing the importance of electronic factors (resonance, induction, acidity, electrophiles, nucleophiles, leaving groups, and carbenium ions) in influencing organic reaction mechanisms. Spectroscopic analysis (NMR,IR) and the importance of molecular obritals are introduced briefly.
Prerequisite: CHM 111 or Collegial Chemistry BFB
Co-requisite: CHL 211.
Dr. Yeats

CHL 211b Organic Chemistry Laboratory II 1-0-4
Further experiments in organic synthesis and in chromatographic separations. An introduction to multi-step synthesis.
Co-requisite: CHM 211.
Dr. Yeats

CHM 311a Organic Chemistry III 3-3-0
A more advanced discussion of organic reaction mechanisms; stereochemistry and conformational analysis; molecular rearrangements; pericyclic reactions; oxidations; tautomerism.
Pre-requisite: CHM 111 and CHM 211.
Co-requisite: CHL 311.
Dr. Yeats

CHL 311a Organic Chemistry Laboratory III 1-0-4
Laboratory and spectroscopic techniques used in the synthesis, separation, and purification of simple organic compounds.
Co-requisite: CHM 311.
Dr. Yeats

CHM 411b Organic Chemistry IV 3-3-0
The importance of electrophiles, nucleophiles, leaving groups, eliminations and dehydrations in the chemistry and reaction mechanisms of organosilicon, carbonyl, and biologically-important compounds.
Pre-requisite: CHM 311.
Dr. Yeats

CHL 300b Advanced Methods in Organic Chemistry 1-0-4
Advanced laboratory techniques as applied to multistep syntheses and natural product isolation.
Inorganic Chemistry

CHM 121 Inorganic Chemistry I 3-3-0
The principles of nuclear, atomic, metallic, ionic, molecular structure. Valence bond and molecular orbital theory. Molecular and orbital symmetry.
Prerequisites: CHM 191 and CHM 192 or Collegial Chemistry NYA and NYB.
Dr. Scarlete

CHM 221a Transition Metals and Bioinorganic Chemistry 3-3-0
This course introduces students to the chemistry of the transition metals and their role in biochemical systems. The first half of the course focuses on the chemistry of the transition metals and their complexes, covering topics including oxidation states, coordination, crystal and ligand field theory, and inorganic reaction mechanisms. The second half of the course focuses on bioinorganic chemistry, covering topics including oxygen transport and storage, metalloenzymes, cytochromes and bioinorganic redox chemistry, cobalamins, photosynthesis, and nitrogen fixation.
This course is currently only offered in odd-numbered years.
Pre-requisites: CHM 121, CHM 131.
Co-requisite: CHL 221
Dr. Wood

CHL 221a Transition Metals Laboratory 1-0-4
This laboratory course focuses on the synthesis of transition metal complexes and bioinorganic model compounds as practical examples of the material covered in CHM 221.
This course is currently only offered in odd-numbered years.
Co-requisite: CHM 221.
TBA

CHM 222a Elements and Minerals 3-3-0
This course is an extensive survey of the chemistry of the s- and p-blocks of the periodic table with particular focus on the environmental (e.g. nitrates and phosphates) and geochemical (e.g. minerals, allotropes) properties of the elements.
This course is currently only offered in even-numbered years.
Pre-requisite: CHM 121, CHM 131.
Co-requisite: CHL 222.
Dr. Wood

CHL 222a Elements and Minerals Laboratory 1-0-4
This laboratory course focuses on the synthesis of compounds of the s- and p-blocks.
This course is currently only offered in even-numbered years.
Co-requisites: CHM 222.
TBA

CHM 421a Advanced Inorganic Chemistry 3-3-0
Selected topics in inorganic chemistry covering all aspects of inorganic chemistry from the alkali metals to the noble gases.
Pre-requisites: CHM 221 and CHM 222.
Dr. Wood

Physical Chemistry

CHM 131a Physical Chemistry I 3-3-0
Ideal and real gases; chemical kinetics and mechanism; an introduction to thermodynamics and chemical equilibrium; ionic equilibria and electrochemistry. This course may be taken online by students who are not registered in a Bishop's Chemistry Program, subject to approval by the instructor.
Prerequisites: CHM 191, CHM 192, MAT 191, MAT 192, PHY 191, and PHY 192 or Collegial Chemistry NYA and NYB, Math NYA and NYB, and Physics NYA and NYB.
Co-requisite: CHL 131.
Dr. Scarlete

CHL 131a Physical Chemistry Laboratory I 1-0-4
A series of experiments in Physical Chemistry to complement CHM 103b which must be taken concurrently by full-time Bishop's students.
Co-requisite: CHM 131
Dr. Scarlete

CHM 231b Physical Chemistry II 3-3-0
Chemical thermodynamics; Zeroth Law and equations of state; First Law and thermochemistry; the Second Law and chemical equilibrium; the Third Law and introduction to statistical thermodynamics; thermodynamic databases; phase equilibrium; calculation of chemical equilibrium in complex systems. Maple-assisted calculus and computations in physical chemistry. This course may be taken online, subject to instructor approval.
This course is currently only offered in odd-numbered years.
Pre-requisite: CHM 131.
Co-requisite: CHL 231.
Dr. Scarlete

CHL 231b Physical Chemistry Laboratory II 1-0-4
Experiments related to the topics of Chemistry 223a which must be taken concurrently by full-time Bishop's students.
This course is currently only offered in odd-numbered years.
Co-requisites: CHM 231.
Dr. Scarlete

CHM331a Physical Chemistry III 3-3-0
Maple-assisted computational statistical mechanics and kinetic theory of gases; gas reactions, chemical dynamics. Quantum chemistry, and spectroscopy; atomic structure, atomic orbitals, and atomic spectra (AAS, XPS, ESCA, EDX,...); introduction to molecular orbitals: LCAO, hybridization. Molecular electronic structure and molecular spectroscopy (physical principles of IR/Raman, rotovibrational spectra, ESCA, EPR and NMR spectroscopies).
This course is currently only offered in even-numbered years.
Pre-requisites: CHM 131, CHM 211, CHM 231.
Co-requisite: CHL 331 for all Chemistry students and for all biochemistry students planning to do honours research projects in the area of physical chemistry.
Dr. Scarlete

CHL 331a Physical Chemistry Laboratory III 1-0-4
Experiments related to topics of CHM 331b, which must be taken concurrently by chemistry students and by biochemistry students who are planning to do honours research projects in the area of physical chemistry.
This course is currently only offered in even-numbered years.
Co-requisite: CHM 331.
Dr. Scarlete

CHM 431b Computational Chemistry and Molecular Modelling 3-3-0
Maple-assisted calculations of molecular orbitals and molecular modelling subroutines; from H2+ molecular ion, via [Ni(En)3]2+ and cis-platin (cancer chemotherapy), to cholesterol and cyclosporin; symmetry and point group analysis of molecular vibration; hybridization and Simple-Huckel Molecular Orbital calculations. Semi-empirical and ab initio methods; calculation of reaction and activation energies via modern alternatives to the Hartree-Fock self-consistent

field method; density functional. Combinatorial processing parent-compound libraries and Spartan-assisted CSDB.
This course may be taken online (conditions apply, including instructor's permission and level of enrollment)
Pre-requisites: CHM 231 and CHM 331.
Dr. Scarlete

Analytical Chemistry

CHM 141a Analytical Chemistry 3-3-0
Data handling, stoichiometric calculations, gravimetric analysis, acid-base equilibria and titrations, redox equilibria and titrations, complexometric titrations, precipitation reactions and titrations, electrochemical cells and electrode potentials.
Prerequisites: CHM 191 and CHM 192 or Collegial Chemistry NYA and NYB.
Co-requisite: CHL 141.
Dr. Wood

CHL 141a Analytical Chemistry Laboratory 1-0-4
Quantitative analysis of unknown samples by volumetric, gravimetric, and spectrometric methods will be carried out.
Co-requisite: CHM 141.
TBA

CHL 142b Chromatography Laboratory 1-0-4
Study of chromatography and quantitative analysis by chromatographic methods (TLC, GLC, HPLC, and gel permeation).
Prerequisites: CHM 141.
TBA

CHM 241b Environmental Chemistry I: Atmosphere and Energy 3-3-0
This course explores the chemistry of the Earth's atmosphere and energy sources, both natural and anthropogenic. Topics covered in the section on the atmosphere include the chemical composition of the atmosphere and solar influence, stratospheric chemistry and ozone, tropospheric chemistry focusing on smog formation and acid precipitation, atmospheric aerosols, urban and indoor atmospheres, and global warming and climate change. Topics covered in the section on energy include solar energy, fossil fuels and the oil industry, nuclear energy, and the hydrogen economy.
This course is currently only offered in odd-numbered years.
Pre-requisites: CHM 111, CHM 131, CHM 141.
Dr. Wood

CHM 242b Environmental Chemistry II: Water and Soil 3-3-0
This course explores the chemistry of the hydrosphere and the terrestrial environment. Topics covered in the section on the hydrosphere include distribution of species in aquatic systems, gases in water, organic matter in water, metals and semi-metals in the hydrosphere, chemistry of colloids and surfaces, microbiological processes focusing on the carbon, nitrogen, and sulfur cycles, and waster water treatment. Topics covered in the section on the terrestrial environment include physical and chemical properties of soil, and the chemistry of solid wastes.
This course is currently only offered in even-numbered years.
Pre-requisites: CHM 111, CHM 131, CHM 141
Co-requisite : CHL 242
Dr. Wood

CHL 242b Environmental Chemistry Laboratory 1-0-4
This laboratory is a survey of the analytical techniques and sample preparation methods related to environmental chemistry. The labs will cover the determination of chloride ion in natural waters, determination of hardness in natural waters, determination of iron and manganese in natural waters by spectrophotometry and colorimetry, determination of trace metals by atomic absorption spectrometry, spectrophotometric determination of the chemical oxygen demand of natural and wastewaters, pattern recognition of petroleum products using gas chromatography, properties of detergents, determination of carbon dioxide in the atmosphere, and the collection and chemistry of acid rain. Wherever possible, students will be performing their analyses on real environmental samples.
This course is currently only offered in even-numbered years.
Co-requisite: CHM 242
Dr. Wood

CHM 341a Principles and Practices of Chemical Spectroscopy and Mass Spectrometry 3-3-0
Theory and applications of multinuclear magnetic resonance, UV/VIS, EPR, and electron spectroscopies for chemical analysis. Mass spectrometry and hyphenated methods. Use of chemical spectroscopy and mass spectrometry for the identification of organic compounds. 2D- and imaging techniques, including MRI. This course may be taken online.
Pre-requisites: CHM 131, CHM 141, and CHM 211.
Co-requisite: CHL 341.
Dr. Scarlete

CHL341a Principles and Practices of Chemical Spectroscopy and Mass Spectrometry Laboratory 1-0-4
Experiments related to topics of CHM 341a, which must be taken concurrently by chemistry and biochemistry students.
Co-requisite: CHM 341.
Dr. Scarlete

Chemical Literature and Research Projects

CHM 371f Scientific Writing and Chemical Literature for Major Students 3-0-0
This course introduces the Chemistry Major student to chemical information retrieval and requires two major term papers – one in the Fall semester, one in the Winter semester – each presented also in two short oral presentations. Students will use SciFinder/Chemical Abstracts to perform searching in structure/substructure, reaction, and bibliographic databases. The literature searching will be used in preparing the two term papers, chosen from a list of topics approved by the Chemistry Department, under the direction of a different member of faculty for each.
Chemistry Major students must enrol in CHM 371 as part of their degree program and may only take this course in their final year. Students receiving credit for CHM 371 cannot also receive credit for CHM 471.
Staff

CHM 471f Scientific Writing and Chemical Literature for Honours Students 3-0-0
This course introduces the Chemistry Honours student to chemical information retrieval and requires two major term papers – one in the Fall semester, one in the Winter semester – each presented also in two short oral presentations. Students will use SciFinder/Chemical Abstracts to perform searching in structure/substructure, reaction, and bibliographic databases. The literature searching will be used in preparing the two term papers, chosen from a list of topics approved by the Chemistry Department, under the direction of a different member of faculty for each.
Honours Chemistry students must enrol in CHM 471 as part of their degree program and may only take this course in their final year. Students receiving credit for CHM 471 cannot also receive credit for CHM 371.
Staff

CHM 491 Independent Study 3-0-0

CHM 492 Independent Study 3-0-0

CHM 499 Honours Chemistry Research Project 6-0-12
Under the guidance of a faculty member, the student does an experimental research project requiring approximately 12 hours per week in both the Fall and Winter semesters, and presents the results of the project in a seminar and a written dissertation. The project chosen must be approved in advance by the Department, and may be in any field of chemistry plus material science.
Prerequisites: Third Year Honours Chemistry registration or permission of the Department.
Staff

General Interest Courses

CHM 181 The Chemistry of Everyday Life 3-3-0
This course will discuss the chemistry underlying some everyday, or easily recognizable, products, processes, and policies. These may include: the chemistry of pollution, warfare, polymers and plastics, household products, and food.
This course cannot be taken for credit by students who have received credit for CHM 191 or the collegial equivalent course, Chemistry NYA, or equivalent credit elsewhere.
Course registration requires the instructor's permission.
Professor Gagnon

CHM 182 Beer 101 – The History and Science of Brewing 3-3-0
Beer is among the world's most popular beverages and the industry continues to grow at both the megabrewery and microbrewery levels. This course is a general interest course on the nature of beer from a historical, sociological, and scientific perspective. The diverse nature of beer will be explored, as well as how the beverage has developed from its origins many thousands of years ago to what it has become today. Of particular emphasis will be the development of a general understanding of the brewing process, and the science and engineering involved. Various examples of beer's impact on society and culture will also be discussed.
This course cannot be taken for science credit.
Dr. Wood

CHM 183 Experiential Learning Project in Brewing 3-3-0
This course is designed specifically for non-science students interested in gaining experience in brewing beer from scratch. Specifically, students will engage in recipe development by starting with a known formula and make changes, subtle or otherwise, to create a beer that is distinctly their own. The goal is to gain an understanding and appreciation of brewing process as well as the roles that the ingredients of beer (water, malt, hops, yeast, adjuncts) play in the taste, aroma, and mouth-feel of the final product. Due to limited space and the anticipated popularity of this course, interested students must submit a brief proposal outlining the beer they would like to produce and their reason for wanting to take the course. Two students per semester will be selected by the course instructor (Dr. Dale Wood) to participate.
Pre or Corequisites: CHM 182 – The History and Science of Brewing

CHM 184 Chemistry of Art Conservation and Restoration 3-3-0
This course is designed to introduce Fine Arts students to some of the scientific aspects affecting art works, collections and archives. Lectures will include a general survey of the properties, structure, decomposition and deterioration of organic and inorganic materials, the chemistry of pigments, scientific methods for the art conservator, and instrumental methods of analysis.
This course cannot be taken for science credit.
Not offered in 2012/2013

CHM 441 Quality Control and Product Analysis as Exemplified by Beer and Brewing 3-3-0
This course will familiarize interested students with the concepts of Quality Control and Product Analysis using beer and the brewing process as an industrial model. Students will gain hands-on experience brewing their own beer with the goal of producing a consistent, high-quality product by tracking the parameters that affect the critical steps in the brewing process. In particular, students will study the effects of temperature, pH, nutrient concentration, and yeast type and how they affect the mash-in, boil (hopping), and fermentation processes, using GC-MS, NMR, HPLC, and other applicable instrumentation. Due to space considerations, this course will be limited to two students per semester, with preference given to students in their final year of study.
Pre or Corequisites: BCH 210,CHM 131, CHM 141, CHM 111, CHM 211, CHM 341 and corequisite labs

Graduate Level Courses

CHM 531 Advanced Chemistry of the p-block Elements 3-0-0
This course focuses on the more recent chemistry of the elements of Groups 13 to 18. Particular topics covered will include p-block radicals, sulfur-nitrogen containing compounds, compounds of the noble gases, and new compounds of the pnictogens, chalcogens, and halogens.

CHM 532 Advanced Chemistry of the Transition Elements 3-0-0
This course will offer a survey of the recent chemistry of the transition metal elements with a focus on their synthesis and properties.

CHM 533 Advanced Chemical Kinetics 3-0-0
This course focuses on complex reactions mechanisms, oscillating patterns, kinetic control of complex chemical systems, cross-dependent and diffusion limited chemical processes, and statistical methods and theories for the determination of reaction rates.

CHM 534 Computation Modules for Symmetry Analysis, Group Theory, and Point/Space Group Analysis of Molecular Vibrations 3-0-0
This course focuses on alpha numeric representations of character tables, point and space groups, and Maple-assisted matrix-definitions. Other topics include Matrix-representation of symmetry operators, numerical representation of character and correlation tables, site-symmetry, space groups, and factor-group analysis.

CHM 535 Synthetic Methods in Organic Chemistry 3-0-0
This course provides an overview to the strategic design of synthetic routes for the preparation of complex target molecules. Techniques will include analysis of specific literature examples, including an overview of reactions, reagents, and stereochemical outcomes,. Advanced synthetic techniques including advanced applications of enolate chemistry, organometallic chemistry, oxidation/reduction methods, key ring forming reactions, and sterochemical control will also be covered.

CHM 536 Topics in Mechanistic Organic Chemistry 3-0-0
A review of mechanistic organic chemistry with considerable emphasis on problem solving assignments involving addition reactions, aromatic substitution reactions, carbonyl chemistry, elimination and substitution reactions, oxidation and reduction reactions, molecular rearrangement, and orbital symmetry.

CHM 538 Synthesis and Properties of Tetrahedral Semiconductors 3-0-0
This course focuses on the synthesis and properties of single crystals of Si, SiGe, SiC, and AIIIBV compounds. The course covers Czochralski (Cz) and Floating zone (Fz) growth of bulk single crystals, and epitaxial growth of AIIIBV thin films. The properties of these semiconductors are studied in detail in correlation with the synthesis method and with chemical and structural impurities. Effects of O, C, and N in the Cz-grown single crystals are extensively studied.

CHM 540 Graduate Seminar I 9-0-0
Students are required to participate in the departmental seminar series and to make a presentation on either their own work or on a research-related topic. Students are normally expected to enroll in this course at the beginning of their first year of studies. Students must successfully complete both CHM 540 and CHM 541 to qualify for the M.Sc. in Chemistry.

CHM 541 Graduate Seminar II 9-0-0
Students in the second year of their M.Sc. degree program are required to participate in the departmental seminar series and to make a presentation on either their own work or a research-related topic. Students must successfully complete both CHM 540 and CHM 541 to qualify for the M.Sc. in Chemistry.

CHM 600 Chemistry Thesis Research Dissertation 1 5-0-0
All students enrolled in the M.Sc. degree program in Chemistry are required to carry out independent, original research which must be presented in the form of a thesis. The research is conducted under the supervision of a Department of Chemistry faculty member. The thesis will be evaluated by all members of the Department of Chemistry and by one external referee with expertise in the student's field of study. The thesis must be successfully defended in an open forum to qualify for the M.Sc. in Chemistry.

Computer Science

Computer science is a subject related to almost every contemporary intellectual discipline, the arts (computer-generated art, verification of historical documents, syntax study of languages including translation, etc.), social sciences (correlating experimental data, simulation, artificial intelligence studies), natural sciences (has always had application in this area), business and government (the largest single groups of users), education (computer-aided instruction, artificial intelligence), medicine, etc.

The department offers a wide selection of programs, ranging from broad to specialized:

1) Master's Degree Program
2) Undergraduate B.Sc. Degree Programs:
   B.Sc, Honours in Computer Science
   B.Sc, Major in Computer Science
3) A multidisciplinary B.A. with a Major in Information Technology (BAIT)
4) Minor in Computer Science
5) Certificate Program in Computer Science

Note: *A Co-op program is offered for all students in programs 2) and 3) above. Please refer to the Co-op section.*

MASTER'S DEGREE PROGRAM

Entrance Requirements

The minimum requirements for admittance to the Master's program are an undergraduate degree with a major in Computing Science or equivalent, and a high upper-second class standing.

Candidates with high academic standing in an undergraduate degree other than computer science, who have some computer science background either academic or professional, may be admitted as graduate preparatory students. Preparatory students will be asked to complete up to one year of undergraduate courses to enhance their background.

In addition to academic performance, a combination of factors is taken into consideration in assessing the eligibility of a candidate for admission into graduate programs.

One important such a factor is the availability of a faculty member competent and willing to supervise the academic program of studies and research of the candidate; a candidate will not be admitted to the program under any circumstance unless such a faculty member exists.

Other factors include the performance of the candidate and the assessment provided by his/her referees as a measure of the likelihood that the candidate can successfully complete the course of studies and research.

Program Requirements

45 CSC credits:

15 cr:	five 500-level CS courses
6 cr:	Graduate Seminar CS 597
24 cr:	Masters Thesis CS

Graduate students should familiarize themselves with the University and divisional calendar and regulations. Some of the information herein is adapted from these regulations, but is not intended as a replacement.

Completing the degree normally requires five one-term 500-level courses, registration and participation in the Graduate Seminar (CS 597), together with a Master's thesis (CS 599). Courses are chosen by students in consultation with their supervisor. All courses prescribed for a student's approved program of study are designated as primary. Courses additional to the student's approved program are designated as secondary. Failure to attain a minimum of 65% in any of the primary courses may result in the student being required to withdraw from the program.

Under certain circumstances, it is permissible for a student admitted to the program to follow an approved graduate-level credit course at another university. All interested students should consult their supervisor and the chair of their department prior to registration in order to obtain further information on procedures and conditions of eligibility.

A thesis proposal should be completed as soon as possible and by the end of the second term in the program at the latest. Students are expected to present their proposal in the Graduate Seminar course and also expected to give more detailed seminars describing their work later.

Thesis topics are chosen after discussion with potential supervisors. The amount of flexibility allowed in pursuing a particular topic will vary according to the supervisor's needs and interests. Theses are defended before an examining committee consisting of two members of the department, and an external examiner.

Any candidate (full-time or part-time), after initial registration in a thesis must maintain this registration in all successive terms (including the term in which the student is examined) until his/her thesis is completed. Completion means submission of a final grade to the Division after modifications, any retyping involved, etc. Students should note that faculty approval to register in the thesis is given on the understanding that the student will be in regular contact with his/her supervisor, and that thesis research will be actively pursued in each term of registration.

Preparatory Students

Candidates who do not satisfy the admission requirements may be admitted to a qualifying program. If successful in this qualifying period and upon formal application to the Division, the student may eventually proceed to the Master's program. However, admission to the qualifying program does not imply automatic admission to the Master's program; at the end of the qualifying period the student will be required to apply for entry into the Master's program, at which time the department will determine the student's eligibility. If successful, the student will be informed of this decision by the Dean of the Division.

Credits taken to fulfill the requirements of the qualifying program may not be used for credit for the Master's degree. Courses taken extra to the program requirements of the qualifying year and which have been successfully completed may be considered for credit towards the Master's degree.

Graduate Courses

Master's students may take any five graduate courses as long as these are approved by their supervisor. Graduate students in the department may include in their programs relevant courses from other departments within the Division.

The department currently offers the following courses. The actual courses offered each term will be determined by student demand and the availability of faculty.

CS 502ab Digital Topology & Mathematical Morphology 3-3-0
Digital topology deals with topological properties of digital images. Its concepts and results are used to specify and justify some important image processing algorithms, including algorithms for thinning, boundary extraction, object counting, and contour-filling. Mathematical Morphology is a set-theoretic method of image analysis allowing to extract image components that are useful for representation and description. It can provide boundaries of objects, their skeletons, and their convex hulls. It is also useful for many pre-and post- processing techniques, especially in edge thinning. The goal of this course is to provide a full exposure to these techniques, their mathematical backgrounds, and their different applications.

CS 506ab Parallel Models and Algorithms 3-3-0
This course provides an introduction to the design and analysis of parallel algorithms and to the various models of parallel computation. The course will discuss parallel algorithms for problems such as: basic arithmetic, sorting, searching, selection, graph theory, matrix computations, combinatorial enumeration, optimization, computational geometry, and numerical analysis. Parallel computational models and their properties will be presented. Other typical topics include: complexity classes, and the parallel computation thesis.

CS 509ab Pattern Recognition 3-3-0
This course addresses the statistical pattern classification theory and techniques. The material presented is concerned with discrimination and classification in the context of computer vision applications. The course topics include Bayesian decision theory, maximum likelihood estimation, nonparametric techniques, stochastic methods and unsupervised clustering.

CS 510ab Model-Based Testing of Reactive Systems 3-3-0
Testing is the primary hardware and software verification technique used by industry today. Usually, it is ad hoc, error prone, and very expensive. In recent years, however, many attempts have been made to develop more sophisticated, formal testing methods. The goal of this course is to provide an in-depth exposure of this emerging area. Students are expected to participate in the presentation of the lecture material and perform independent research.

CS 512 Computer Games Design 3-3-0
Cross-listed with CS 412 – This course will explore the theory and practice of video game design and programming. Students will learn the basic concepts and techniques for the design and development of digital games. The topics covered in this course will include the history and taxonomy of video games, the basic building blocks of a game, computer graphics and programming, user interface and interaction design, and the software architecture for video games. Students are expected to prepare a research paper during the course, or pursue a larger applied project.

CS 515ab Concurrent & Real -Time Systems 3-3-0
Concurrent systems are complicated; they consist of many components which may execute in parallel, and the complexity arises from the multitude of combinations in which they interact. Concurrency by its very nature introduces phenomena not present in sequential systems, such as deadlock and livestock. This course provides an introduction to an algebraic language (such as CSP) for specification, analysis, and verification of conccurrent and real-time systems. It then goes and presents the use of such a language as a formal method for concurrency at different stages in the development process.

CS 516ab Volumetric Image Analysis & Visualization 3-3-0
Digital volumetric images are stacks of two dimensional image slices produced for instance by tomographic scanner. The goal of this course is to study the different techniques and algorithms for the analysis of volumetric images including a discussion about some sources of volumetric images, especially those occurring in medical imaging with different modalities (Radiology, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine, Ultrasound, Positron Emission Tomography). The course will also address the different techniques used to display and visualize volumetric images including volume slicing, surface rendering, and volume rendering.

CS 520 Advanced Topics in Software 3-3-0
The course will present topics of current interest or research directions in software and related areas. The course content is expected to vary to reflect the current interests of students and faculty. Students are expected to participate in the presentation of the lecture material and engage in independent research.

CS 555ab Automata Theory & Computational Complexity 3-3-0
Cross-listed with CS 455. The course will address finite-state machines, context-free languages and pushdown automata, computability. A systematic study of the known relations between the most important resource bounded complexity classes, reductions, separation results and translation techniques is also included. Students are expected to prepare a research paper during the course.

CS 557ab Database Software Design 3-3-0
Cross-listed with CS 457. This course covers how one can implement a Database Management system. Major topics are Storage management, Query processing, and Transaction management. As a basic assumption, data will not all fit in main memory, so algorithms and data structures appropriate for effective disk storage and quick access must be used. For example, one may use index structures such as B-trees or hash tables. We cover parsing of queries and optimizing of query plans. Finally, we cover durability of transactions using logging, and concurrency control for isolation of transactions. Additional topics in distributed databases are also presented. Students are expected to prepare a research paper during the course, or pursue a larger applied project.

CS 562ab Mathematical Models in Image Processing 3-3-0
Cross-listed with CS 462. Image processing is a rapidly growing field. As such, it requires and necessitates a number of mathematical models and domains to achieve efficient processing algorithms. Designing a successful processing technique invariably relies on having a successful model for images themselves. The mathematical techniques needed could range from Partial differential equations, Differential geometry, Morse theory, Topology, Algebraic topology, Wavelets, Statistical techniques, Calculus of variations, Numerical methods, Graph theory, and Optimization. The objective of this course is to discuss in depth a number of selected mathematical topics (and their use in image processing) that are of interest to the students at the moment the course is given.

CS 563ab Image Analysis 3-3-0
Cross-listed with CS 463. Image analysis is concerned with the development of machine algorithms in order mimic the biological organism's ability to see and understand images and videos. The course content include: camera models and calibration, image enhancement, features extraction and representation, shape from shading, stereo and texture, optical flow, motion analysis, high level vision and case studies.

CS 564ab Computer Networks & Distributed Algorithms 3-3-0
Cross-listed with CS 464. The course presents computer networks at a functional level, with strong emphasis on programming distributed applications over a network. Discussion will be based on open networking and application standards such as the TCP/IP protocol suite and the Portable Operating System Interface (POSIX). The concept of distributed algorithms together with the associated challenges and examples are then presented. Programming distributed applications (in C or C++) is an integral part of the course. Students are expected to work on a large, distributed, and practically meaningful application as part of the course.

CS 567ab Advanced Topics in Algorithms 3-3-0
Cross-listed with CS 467. The course covers some advanced aspects of algorithms and complexity. It studies the topic of NP- complete problems. Some specialized algorithms in several areas will be discussed, such as Bioinformatics, Computational Geometry and Network Flow.

CS 569ab Special Topics in Computer Science 3-3-0
Cross-listed with CS 469. The course will present topics of current interest in Computer Science. The course content varies reflecting the interests of the faculty. Students are expected to participate in the presentation of the lecture material and engage in independent research.

CS 596ab Research Topics in Computer Science 3-3-0
This course provides an introduction to the primary and secondary sources of information in the computing science literature. Faculty discuss their own research objectives and present an overview of research issues in the major subject areas of Computer Science. Students are required to submit and present a paper on a topic that relates to their research.

CS 597f Graduate Seminar 6-0-0
Students are expected to participate in the departmental seminars and give at a minimum two presentations (one outlining their thesis proposal, and another one about their thesis work). All Master's students are normally expected to enroll in this course in their first year in the program. Students will not receive credit for both this course and CS 598 at the same time.

CS 599ab Master's Thesis 24-0-0

UNDERGRADUATE BSC DEGREE PROGRAMS

Entrance Requirements

All students are admitted in a four-year, 120-credit (forty 3-credit courses) program.

Please refer to the Division of Natural Science and Mathematics section of this Calendar for advance credit information and admission requirements.

Students who possess another University degree recognized by the Quebec government, and who wish to obtain a Bachelor degree in Computer Science, are normally admitted in a 30-credit-minimum program. However, they have to satisfy the program requirements: Math and Physics prerequisites, in addition to the Computer Science, Math and Physics requirements.

All students in Bachelor programs must complete the English Writing Proficiency requirement (EWP) before graduation.

Program requirements:

I) Honours in Computer Science

A. Dissertation-based Honours

18 credits: Program prerequisites (please refer to Table II in the Divisional section of the Calendar)
57 CS credits:
42 required: CS 201, CS 211, CS 216, CS 304, CS 310, CS 311, CS 317, CS 321, CS 375 / CS 308, CS 403, CS 409, CS 455, CS 499
15 electives: must include 9 credits from 300-level courses and above
12 MAT credits
12 required: MAT 108, MAT 200, MAT 206, MAT 207
3 PHY credits: PHY 101
3 credits: Arts and Science requirement (please refer to the Divisional section of the Calendar)
27 credits of free electives

B. Course-based Honours

The course-based stream does not require a dissertation (i.e. CS 499) but requires 3 more CS courses. It is primarily designed for students wishing a specialization in Computer Science but are not interested in research and do not intend to pursue graduate studies:
18 credits: Program prerequisites (please refer to Table II in the Divisional section of the Calendar)
60 CS credits:
36 required: CS 201, CS 211, CS 216, CS 304, CS 310, CS 311, CS 317, CS 321, CS 375 / CS 308, CS 403, CS 409, CS 455
24 electives: must include 15 credits from 300-level courses
12 cr. MAT
12 required: MAT 108, MAT 200, MAT 206, MAT 207
3 PHY credits: PHY 101
3 credits: Arts and Science requirement (please refer to the Divisional section of the Calendar)
24 credits of free electives

General Notes for Honours

- after a minimum of 1 semester, a student with a grade of at least 80% in required courses may request entry to the Honours program
- the dissertation stream requires, in addition, departmental permission.
- students must maintain an average of 80% in required courses to stay in the program

II) Major in Computer Science

18 credits: Program prerequisites (please refer to Table II in the Divisional section of the Calendar)
45 CS credits:
30 required: CS 201, CS 211, CS 216, CS 304, CS 310, CS 311, CS 317, CS 321, CS 403, CS 409
15 electives
9 MAT credits
6 required: MAT 108, MAT 200
3 elective
3 PHY credits: PHY 101
3 credits: Arts and Science requirement (please refer to the Divisional section of the Calendar)
42 credits of free electives

B.A. PROGRAM, MAJOR IN INFORMATION TECHNOLOGY

Information Technology

Information Technology (IT) is defined by the Information Technology Association of America (ITAA), as the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer hardware. IT deals with the use of electronic computers and computer software to convert, store, protect, manage, transmit and retrieve data, securely.

This program provides the necessary skills and knowledge to work/design/participate within organizations that manage large amount of data and provide services to a large number of users. Students will develop skills and knowledge in Information Technologies, Management practices and Organizations, with the required fundamentals of Computer Science

Note: Students following this degree program are not eligible for a Business minor.

Program prerequisites: (12 credits) Please refer to Table II in the Divisional section of the Calendar.

Core curriculum (30 credits):

CS 201, CS 211, CS214, CS 304, CS 307
BCS 220, BHR 221, BMA 140, BMA 141, BMG 112

Secondary Core [1] (30 credits)

A minimum of 3 courses in Computer Science from the following list:

CS 203, CS 207, CS 230, CS 301, CS 305, CS 316, CS 321, CS 325,
CS 401, CS 404, CS 410, CS 457, CS 464

A minimum of 3 courses in Business from the following list:

BAC 121, BCS 210, BCS 212, BCS 216, BCS 313, BMG 214, BMG 318,
BMK 211, BMK 214, BMK 323, BMK 371, BMS 231, BMS 303, BMS 332

[1] Students are advised to consult the Calendar for prerequisites

Arts and Science requirements (3 credits)
Please refer to the Divisional section of the Calendar

Free electives (45 credits)

CO-OPERATIVE EDUCATION PROGRAM

The Co-operative Education Program combines a student's academic program with integrated work experiences through full-time work terms and regular academic sessions. The work terms are designed to present the students with the opportunity to blend theory and practice and to gain relevant work experience.

Each co-operative work term is between 12 and 16 weeks in length, and the student will be registered in a 3 credit Co-operative Placement course (CS 391, CS 392 or CS 393). These course credits are in addition to regular degree program requirements. **Each is graded on a pass/fail basis and this grade is not included in the student's cumulative average.** The evaluation is the responsibility of the Departmental Chair and will be based upon the submission of a work term report and a job performance report submitted by the employer. Normal academic regulations apply to the conduct and evaluation of the courses.

The number of work terms needed depends on the number of credits the students need to complete upon admission at Bishop's. Student who have been granted 30 advance credits (or more) will be required to complete two work terms (6 credits). Other students who have been admitted into a regular 120-credit degree program will be required to complete three work terms (9 credits). These credits will be added to the student's program and do not count as computer science courses, computer science electives, or free electives. All work terms must be completed before the student's final academic semester and a student's last semester before graduation cannot be a work term. While every effort will be made to find a suitable placement for all students in the program, no guarantee of placement can be made since the employment process is competitive and subject to market conditions.

Admission to the Co-operative Education Program

Full-time students in the Computer Science Department with a minimum cumulative average of 70% after completing 15 credits (1 semester) are admissible into the Co-op Program provided they submit their résumé (curriculum vitae) and a letter of intent for review. Admission is limited to full-time students in any Honours or Major program offered in the Computer Science Department. Students in the Co-op must maintain their 70% average in order to stay in the program.

Please consult the Co-operative Education section on the Bishop's University website for important dates, deadlines and updates at www.ubishops.ca/coop

Tuition and Fees

Each work term placement is a 3-credit course and students will pay tuition based upon their fee paying status (Quebec resident, Canadian out-of-province, International). In addition, an administrative fee *of $200 per placement* will be charged to help cover the cost of monitoring and evaluating work placement. Payment is to be made through the Business Office.

Work Term Evaluation

Successful completion of the work term is based upon the following:

- The receipt of a satisfactory job performance report from the employer
- The submission of a satisfactory work term report by the student.

The job performance report will be completed by the employer, using guidelines supplied by the Computer Science Department. It is the student's responsibility to ensure that the employer sends the completed evaluation to the Co-op Coordinator on or before the established deadline. Employer evaluations are confidential and are not reported on the student's transcript.

MINOR IN COMPUTER SCIENCE

24 CS credits

9 required:	CS 201, CS 211, CS 304
15 electives	from any CS course (except CS 102)

CERTIFICATE PROGRAM – 30 credits

Description and objectives:

The Certificate Program in Computer Science is designed for individuals who need to acquire a basic understanding of computers and programming and knowledge of the field in order to expand their area of interest and professional expertise. Topics include: Programming, Software Engineering, Web Design, Networks, Graphics, Artificial Intelligence and others. This program will help students to take full advantage of the computer technology available in the workplace.

Prerequisites to programs:

Applicants with insufficient Math background might be required to take an additional 3-credit Math course in their first semester (Math 190 or equivalent).

Program description

Certificate in Computer Science

- 9 required credits: CS 201, CS 211, CS 304
- At least 3 credits from each of Group A, Group B, Group C and Group D.
- 9 credits from any CS course (except CS 102)

Group A: CS 203, CS 230
Group B: CS 214, CS 216, CS 311
Group C: CS 305, CS 308, CS 401
Group D: CS 306, CS 316, CS 318, CS 321, CS 403

General Notes/Restrictions:

1. Only one of CS 404, CS 408 or CS 499 may be taken for credit, unless with a special departmental authorization
2. Computer Science courses that are double-listed in Math cannot be counted toward fulfilling the Math electives required for the Computer Science Honours/Major.
3. Students must fulfill their Arts and Science requirements and Humanities requirements outlined in the "Divisional" section of the Calendar.

Undergraduate Courses

CS 102ab Computers in Every Day Life 3-3-0
An introduction to the use of the personal computer as a tool by non-scientists. No prior knowledge of computers is assumed and a learning by doing approach is adopted wherever possible.
Survey of the basic hardware: I/O devices, secondary storage, communications. Systems Software: DOS and Windows fundamentals from the user perspective. Basic hands-on applications: Word Processing, Spreadsheets, Database Processing. Information and Decision Support systems, Communications and connectivity: E-mail and the Internet, Internet Resources. Workplace issues, privacy and security.
Note: This course cannot be taken for credit by Science students, by students in the BAIT program, or by students who have received credit for either BCS 114 or CS 201. This course is not offered on a regular basis.

CSL 102ab Computers in Every Day Life Laboratory 1-0-3
This is the practical laboratory for CS 102

CS 113ab Digital Imaging for Photography 3-3-0
The students in this course will learn the basic concepts of digital imaging as applied to photography. They will explore the techniques of acquiring, manipulating and outputting digital photographic images using a variety of modern hardware and software equipment. This course will also discuss lighting, color representation, gray scale and color adjustments, image filtering and special effects creation. The course is organized around assignments and a final project where the students will apply the studied techniques to their own photographic processes.

CSL 113ab Digital Imaging for Photography Laboratory 1-0-3
This is the practical laboratory for CS 113

CS 201ab Foundations of Computer Science 3-3-0
An introduction to Computer Science and selected applications suitable for both majors and science non-majors who want a broad overview of the field. The course provides a layered introduction covering hardware, system software and applications packages. The course includes elementary programming. Topics include Algorithmic foundations of Computer Science; The hardware world: number systems, boolean logic, computer circuits, Von-Newmann architecture; System software: assembly language, operating systems, high level languages, language translation; Models of Computation; Applications and Social Issues
Note: Registration priority is given to Science and IT students. CS students must take this course in their first year.

CSL 201ab Foundations of Computer Science Laboratory 1-0-3
This is the practical laboratory for CS 201

CS 203ab Interactive Web Page Design 3-3-0
In this course, students will learn the basics of HTML, the language describing web pages, and CSS, another web page language. By constructing fill-in forms and employing short sections of script, students will learn how to enable users of the Internet to interact with their web pages: sending data to be stored, and receiving customized responses. The course will include simple database operations. Extensive laboratory work will result in students creating their own set of personal web pages on a publicly accessible server. The course is open to anyone interested in the subject.

CSL 203ab Interactive Web Page Design Laboratory 1-0-3
This is the practical laboratory for CS 203

CS 207ab Databases and Dynamic Web Design 3-3-0
In this course students will build dynamic websites using SQL and PHP, learn the web technology that powers a million e-commerce sites, and enables dynamic, interactive tools and applications. Many real-world websites, and especially e-commerce sites, are complex and need flexibility. As a result, the use of databases as a back-end for websites is increasingly popular. Queries in the SQL language allow a high degree of selectivity, as well as easy storage and retrieval of large image and media content objects. This course expands upon the techniques of web programming introduced in CS 203, to teach the use of databases in web design. Applications are primarily drawn from the e-commerce area, but are not limited to this domain. Students will learn how to design and administer a database, set up mailing lists, build discussion forums, create a storefront, and even build a working shopping cart. This course emphasizes practical skills with hands-on-projects.
Prerequisite: CS 203 or permission of the instructor.

CSL 207ab Databases and Dynamic Web Design Laboratory 1-0-3
This is the practical laboratory for CS 207

CS 211ab Introduction to Programming 3-3-0
This course introduces algorithms, data structures and software engineering principles. The use of a high level language is the tool to develop these components. By the end of the course, a successful student should be 'fluent' in programming, and have a good base for simple data structures. The course provides the necessary programming skills needed for further studies in Computer Science.

CSL 211ab Introduction to Programming Laboratory 1-0-3
This is the practical laboratory for CS 211

CS 214ab Introduction to Networks 3-3-0
This course introduces and discusses the components and architectures of computer networks. Topics to be covered include: Resources Sharing (Network Interface Circuitry, Files Servers, Workstations, etc.), Network Protocols (TCP/IP, Apple Talk, Novel, etc.) and Network Infrastructure (Hubs, Routers, Gateways, Bridges, etc.).

CS 216ab System Programming Languages 3-3-0
System programmers need to understand how a computer works at a low level. They program primarily in C, with some assembly language. This course covers number systems, the C programming language, and an assembly language for a representative processor architecture. Topics covered include addressing modes, the stack, function calls and argument passing.

CSL 216ab System Programming Languages Laboratory 1-0-3
Practical work for CS 216 will consist of programming in C and MIPS assembly language.

CS 219ab General Topics in Computer Applications 3-3-0
The course will present general Computer Science-related topics, of interest to both Computer Science as well as non-Computer Science students. The course content is expected to vary to reflect the interest of students and Faculty, as well as market innovations.

CS 230ab Developing Mobile Apps 3-3-0
This course is designed to guide the student in how to develop a well thought out, robust App specifically for an iOS device (Apple). The foundation of how to develop a professional app will be taught. This course covers two sections: Section One (Development) covers areas such as: Design, Business/Economics, Monetizing an app, target users, native apps vs web apps. Section Two (Programming) teaches the objective C language, the MVC programming design pattern that is essential for a robust well programmed app. The goal of this course is to create an extremely strong foundation in the essentials that create great apps.

CSL 230ab Developing Mobile Apps Laboratory 1-0-3
This is the practical laboratory for CS 230

CSL 284 Unix System Administration Laboratory 1-0-0
This lab familiarizes students with the Linux and Unix environments covering system administration and user management. Students will start with isolated machines then learn how to interface a Unix system with a network. Advanced topics include the configuration and administration of email and Web servers, as well as techniques for the automation of system administrator tasks via scripting languages. All students will have root and console access to real machines, thus they will gain real networking experience.
Prerequisite: CS 211

CS 301ab Computer Ethics 3-3-0
Ethics is a branch of philosophy. Computers introduce arguably unique ethical issues in the way their use affects society. Technically minded professionals often give little attention to ethical issues. This course explores the basis for ethical reasoning, and examines ethical issues such as invasion of privacy, mischief including viruses, piracy and liability of software. It also considers broader issues of impacts on the individual and society, control of the technology, and the question of the difference between human understanding and rule-base processing of data. Students will be expected to participate in class discussions and role-playing scenarios, and to write a term paper.

CS 304ab Data Structures 3-3-0
An advanced course designed to expose the student to the latest programming theory and software engineering principles. Topics covered include modularization, data encapsulation, information hiding, data abstraction, and other object oriented software construction techniques will be discussed. Parallel design of algorithms and data structures, analysis of algorithms (including "big O" notation and software verification methods.) Standard data structures such as stacks, queues, trees and graphs will be examined. Programming examples are done in Java.
Prerequisite: CS 211

CS 305ab Data Mining for Scientists 3-3-0
Data is now created faster than humans are able to understand it and use it. There may be patterns hiding within this data with potentially useful information. This course will teach students, including Biology and Biochemistry students as well as those from Computer Science, how to discover these patterns for the purpose of solving problems, gaining knowledge, and making predictions. Topics covered in this course include data preparation, clustering, classification, association rules for mining and linear regression. This course includes assignments and a final project where the students are required to perform mining on real datasets drawn from the biological and physical sciences.
Prerequisites: PHY 101 (or equivalent)
See PHY 374ab
Students may not take this course for credit if they have received credit for PHY 374.

CSL 305ab Data Mining for Scientists Laboratory 1-0-3
This is the practical laboratory for CS 305

CS 306ab Functional and Logic Programming 3-3-0
There is much more than imperative programming. This course introduces two other programming paradigms, functional and logic. Topics normally include: functional programming languages, such as Lisp and Haskell; higher order functions, lazy evaluation, abstract and recursive types, structural induction, symbolic expressions; logic programming languages, such as Prolog; operational interpretation of predicates and terms, proof search, unification, backtracking; typical applications.
Prerequisite: CS 304b Allow cncurrent

CS 307ab Using and Designing Data Bases 3-3-0
This course presents data modeling (Entity-Relationship model, UML, etc..), relational algebra, normalization, SQL language. Implementation of databases using the relational model is discussed. Object-oriented modeling and implementation is also introduced. Other topics include: Concurrency control, transaction processing, client-server systems, distributed databases, and web-based delivery of data.
Prerequisite: CS 304
Note: Students may not take this course for credit if they received credit for either BCS 214 (Jan 98 and onward) or CSC 274 (prior to 2003).

CSL 307ab Using and Designing Data Bases Laboratory 1-0-3
This is the practical laboratory for CS 307

CS 308ab Scientific Programming 3-3-0
Scientific Programming is a course for students who want to learn more about the computing that goes on behind computational science. Students will learn the basic mathematical tools and computational techniques including the design and analysis of algorithms for solving mathematical problems that arise in many fields, especially science and engineering. Emphasis is placed on both the actual implementation and on the numerical and algebraic methods. The programming projects assigned in this course will make substantial use of C and C++ for numerical computations and Maple for symbolic computations.
Prerequisite: CS 304, Math 191, Math 192
Note: See PHY 378b. Students may not take this course for credit if they have received credit for Mat 279 or Phy 378.

CS 310 Introduction to Software Specifications 3-3-0
This course provides to all the students in CS degrees essential material on formal languages and automata, and also on program specification using logical predicates. The following topics will be addressed: introduction to techniques for specifying the behaviour of software, with applications of these techniques to design, verification, and construction of software; logic-based techniques such as loop invariants and class invariants; automata and grammar-based techniques, with applications to scanners, parsers, user-interface dialogs and embedded systems; computability issues in software specifications. These topics have been chosen because they are both theoretical and practical, and will be presented as such.
Prerequisite: CS 211, MAT 200

CS 311a Computer Organization and Logic Design 3-3-0
This is a theoretical course on computer organization and architecture. Different computer components and how they function are studied in detail. By the end of the course, students should be able to build (in theory) a small computer without interface. Topics covered are: boolean algebra and gates, combinational circuits (decoders, multiplexers, PLAs), logic design (flip-flops, shirts registers, counters, sequential circuits), the ALU, memory (RAM,ROM, secondary storage), I/O Devices and the control unit (hardwired, microprogramed). For those interested students, a follow-up course, largely consisting of lab experiments, is CS 312b.
Prerequisite: CS 201ab, CS 211ab.

CSL 311ab Computer Organization and Logic Design Laboratory 1-0-3
This is the practical laboratory for CS 311

CS 312b Microcomputer Interfacing 3-3-0
This course and integrated laboratory introduces the techniques used to interface a microcomputer to the real world with a robot as the main interface. Students will complete projects of increasing difficulty as they build and program a robot to accomplish a given task and brief the class on their design and findings. Topics will include: interactive programming, analog and digital inputs, use of the bus and registers to control output signals, simple electronic sensors, multiplexing and decoding and practical problem solving.
Prerequisite: CS 311a or equivalent programming and electronic knowledge.

CSL 312ab Microcomputer Interfacing Laboratory 1-0-3
This is the practical laboratory for CS 312

CS 315ab Data Communications 3-3-0
This is a theoretical course on Data Communications. It covers the basic and physical aspects involved when data is transmitted from one point to another, such as analog vs. digital transmission, various forms of encoding analog and digital data into appropriate signals, error detection techniques, multiplexing, etc... As well as an introduction is given on networking techniques, differences between circuit and packet switching, routing techniques, and Local Area Networks. The course is of mathematical and physical nature.
Prerequisites: CS 211ab, CS 216a
Note: See PHY 365. Students may not take this course for credit if they have received credit for PHY 365.

CS 316ab Artificial Intelligence 3-3-0
A course aiming to introduce students to the basic concepts and techniques of Artificial Intelligence. Topics will include: Search strategies; knowledge representation; AI languages; Rule-based inference systems, expert systems; computer vision; planning and problem solving; natural language understanding.
Prerequisite: CS 304, CS 306 or CS 403

CS 317ab Design and Analysis of Algorithms 3-3-0
This course is intended to make students familiar with most of the existing techniques for problem solving. It starts with an introduction to algorithms efficiency, solving recurrence relations and basic data structures. Then different techniques for algorithms design are discussed; the divide-and-conquer technique, the greedy technique and its applications to graph algorithms, dynamic programming, backtracking and branch and bound algorithms. With every technique presented, examples from different domains are studied and their algorithms analyzed. At the end, students are briefly introduced to the vast area of "difficult" problems, or NP-complete.
Prerequisite: CS 304 and MAT 200

CS 318ab Advanced C++ Programming 3-3-0
The C++ language has become an industry standard as an implementation language. The course aims at introducing the student to intermediate and advanced programming using C++, with particular emphasis on systems software and the use of the C++ object-oriented extensions in software engineering
C++ Programming basics (loops and decisions, arrays, structures, functions, pointers) Objects and Classes, Inheritance, Virtual functions, files and stream, I/O Structure and design of Class libraries, Standard Template Library, OOP Design basics.
Although no prior experience in C is required, it is assumed that the student is already fluent in some other programming language and in the programming of data structures.
Prerequisite: CS 304

CS 321ab Advanced Programming Techniques 3-3-0
The course is intended to be a sequel to introductory programming with emphasis placed on the architecture of software. It will go in depth into object-oriented techniques, reusability, data abstraction, class design, and implementation, design and structure of class libraries. Topics to be covered include: polymorphism, encapsulation, overloading, inheritance and delegation, types of inheritance (Inheritance for Extension, Specialization and Specification), composition, aggregation and design of collections. Static and dynamic types, downcasting, exception handling. The second half of the course will be devoted to software design patterns, with particular emphasis on the observer, iterator, visitor and selected creational patterns. Course work will involve significant programming projects. The teaching language will be Java.
Prerequisite: CS 211 Allow concurrent

CSL 321ab Advanced Programming Techniques Laboratory 1-0-3
This is the practical laboratory for CS 321

CS 325 Computer & Networking Security 3-3-0
This course provides an introduction to security and privacy issues in various aspects of computing, including cryptography, software, operating systems, networks, databases, and Internet applications. It examines causes of security and privacy breaches, and gives methods to help prevent them.
Prerequisite: CS 216
Co-requisite: CSL 284

CS 330 Advanced Programming for Mobile Apps 3-3-0
This is a Programming course that builds on knowledge acquired in CS 230. It covers topics such as localizing an app (making the app suitable for different world markets with different languages etc.). It will include animation and the use of some of the technologies available on the device such as the camera and accelerometer data. Also, date storage on the device and off the device will be covered. The goal of this course is to take the foundation from level 1 and give the student the ability to be able to be an expert in the technical programming of apps.
Prerequisite: CS 230
Co-requisite: CSL 330

CSL 330 Advanced Programming for Mobile Apps Laboratory 1-0-3
This is a practical laboratory for CS 330
Co-requisite: CS 330

CS 375b Numerical Methods 3-3-0
Numerical techniques for problem solving in mathematics, computer Science and Physics. Error analysis, roots of equations, QR-algorithm, interpolation, Numerical approaches to differentiation, integration and solutions of differential equations.
Prerequisite: CS 211ab, Mathematics 108 and 207.
Note: See Mat 325 and Phy 375. Students may not take this course for credit if they have received credit for MAT 325 or for PHY 375.

CS 379b Electric Circuits and Electronics 3-3-3
Review of D.C. circuits, Kirchoff's laws, network theorems. Network analysis for A.C. circuits, phasors. Diode circuits and filters. The physical basis of semiconductor devices including semiconductor diodes, junction transistors, and field-effect transistors. The operation of transistor amplifiers, digital electronics and integrated circuits will also be covered.
Note: See PHY 319. Students may not take this course for credit if they have received credit for PHY 319.

CS 391ab Co-operative Placement I 3-0-0
Students will integrate theory and practice through a related work placement
Prerequisite: admission to the Co-op Education Program

CS 392ab Co-operative Placement II 3-0-0
Students will integrate theory and practice through related work placement
Prerequisite: CS 391

CS 393ab Co-operative Placement III 3-0-0
Students will integrate theory and practice through related work placement
Prerequisite: CS 392

CS 394ab Stage in Bioinformatics 6-0-0
Students will integrate theory and practice through a related stage.
Prerequisite: CS 372 / BCH 342

CS 400ab Independent Studies 3-0-0
Individual study and research under the guidance of an advisor and Department staff.
Prerequisite: Permission of the department

CS 401ab Simulation Techniques 3-3-0
Computer simulation is defined and put into the context of other simulation methods. Two main techniques are studied, one involving automated spreadsheets (financial modelling) and the other queuing theory. A term project involving the simulation of an actual system is part of the course.
Prerequisite: CS 304, PHY 101 (or equivalent)
Note: Students may not take this course for credit if they received credit for BMS 343. This course will be offered in alternate years.

CS 402ab Computer Graphics 3-3-0
This is an introductory course to the principles of interactive raster graphics. Topics include an introduction to basic graphics concepts, scan conversion techniques, 2-D and 3-D modeling and transformations, viewing transformations, projections, rendering techniques, graphical software packages and graphics systems. Students will use OpenGL graphics API to reinforce concepts and study fundamental computer graphics techniques.
Prerequisites: CS 304b, MAT 108a

CSL 402ab Computer Graphics Laboratory 1-0-3
This is the practical laboratory for CS 402

CS 403ab Principles of Programming Languages 3-3-0
The objective of this course is to introduce, analyse and evaluate, on a comparative basis, the concepts on which programming languages and their implementations are based. Topics to be covered: definition of languages, syntax and semantics; Compilation techniques, top-down parsing, creating a parser; variables and binding, expressions, statements; data types; procedures scope, and run-time considerations; coroutines; implementation of block-structured languages; modularity and abstractions; concurrency exception handling and program correctness; functional programming object-oriented programming languages; logic programming and constraint languages.
The languages ML, Eiffel, Lisp, Scheme, Prolog, Haskell, 02, Java and Smalltalk will be used to illustrate the above concepts.
Prerequisites: CS 304 and one other Programming Language course

CS 404ab Project 3-0-3
This course is normally taken by CS students in their final year. The project must be approved in advance by the department. Students will be expected to submit a written report and to make a presentation.
Prerequisite: approval of the dept., 80% in CS courses

CS 406ab Compilers and Interpreters 3-3-0
This course is intended as an introduction to the fundamentals of language translation and compiler construction. Topics will include language theory and syntax; grammars, finite state machines, non-deterministic push-down automata; a thorough treatment of parsing methods covering top-down, bottom-up and precedence parsers; Syntax directed translation; Run-time environments; optimization and error recovery; code generation. Students will be required to construct a working interpreter of a Pascal-like language.
Prerequisite: CS 403a
This course will be offered on alternate years.

CS 408ab Project II 3-0-3
This course is normally taken in the final year of studies and may involve work on a theoretical topic or a practical implementation of a sizable software project. The topic must be approved in advance by the department. Students are expected to attend bi-weekly project meetings where they present and discuss their work. In addition, they will make a final presentation at the end of term and submit a report.
Prerequisite: approval of the dept. 80% in CS courses.

CS 409b Principles of Operating Systems 3-3-0
Basic concepts of computer hardware; program translation linking and loading; cooperating sequential processes; critical section problem, process synchronization primitives, parallel programming; introduction to multiprogramming; operating system nucleus; file systems; reliability and protection; system performance, measurement and evaluation. Memory Management. Paging and Virtual memory. Unix. Using and programming the Unix Shell, Unix implementation. Examination of the implementation of Unix clones Minix, Linux, Survey of state-of the-art operating systems. Distributed Systems, Communication and synchronization in distributed systems. Theoretical issues and implementation.
Prerequisites: CS 304b

CS 410ab Software Engineering 3-3-0
Software is an engineered product that requires planning, analysis, design, implementation, testing and maintenance. This course is a presentation of the techniques used in each step of the software product process. Topics: software requirements analysis and specifications; software design process, object oriented design; testing, reliability and maintenance; automated design tools, programming environments. Students will be expected to work jointly on several large software projects.
Prerequisites: CS 304b, CS 403a

CS 411ab Advanced Computer Architecture 3-3-0
The focus in this course is on basic principles, current practice, and issues in computer architecture and organization. At the end of the course students will have gained an understanding of how a computing system is organized, as well as why it is organized this way. The relation between hardware and the software that runs on it is emphasized, leading to an intuitive understanding of how the behavior of applications influences computer organization and design. Topics covered typically include (but are not limited to): instruction set design, micro-programed versus hardwired processors, pipelining and superscalar processors, memory organization (cache, primary, virtual), I/O and interrupts, multiprocessors. Comparative critical and quantitative analyses of various systems that currently exist are presented.
Prerequisites: CS 311 or instructor's permission.
All special topics courses require CS 211 and CS 304 as a prerequisite and/or any other course as specified by the instructor.

CS 412 Computer Games Design 3-3-0
This course will explore the theory and practice of video game design and programming. Students will learn the basic concepts and techniques for the design and development of digital games. The topics covered in this course will include the history and taxonomy of video games, the basic building blocks of a game, computer graphics and programming, use interface and interaction design, and the software architecture for video games. It is assumed that students have taken courses in programming (best if it includes C or C++) and data structures. A good background in algorithms and basic mathematics (matrix algebra, trigonometry, linear algebra, vector calculus) is an asset for this course.
Prerequisite: CS 304

CS 415ab Special Topics in Communications 3-3-0
The course will present topics of current interest or research directions in Computer Communications Networking and network programming. The course content is expected to vary to reflect the current interests of students and faculty. It will be offered by arrangement with the department.

CS 416ab Special Topics in Software 3-3-0
The course will present topics of current interest or research directions in Software Science. The course content is expected to vary to reflect the current interests of students and faculty. It will be offered by arrangement with the department.

CS 417ab Special Topics in Computer Applications 3-3-0
The course will present topics of current interest or research directions in Computer Applications. The course content is expected to vary to reflect the current interests of students and faculty. It will be offered by arrangement with the department.

CS 418ab Topics in Computer Science 3-3-0
The course will present topics of current interest or research directions in Computer Science. The course content is expected to vary reflecting the interests of the students and the faculty. It will be offered by arrangement with the department.

CS 420ab Concurrent Programming 3-3-0
Introduction to the principles and practice of concurrent programming. A vital topic in the design and implementation of operating systems, distributed systems, and distributed data structures. In addition, with the advent of commercially available multiprocessors, it is growing in practical significance as well. Topics to be covered: programming notation and logics for concurrent programming, concurrency and synchronization, specification and semantics of concurrent execution, safety and liveness properties, critical section problems, data parallel processes, semaphores, conditional critical regions, monitors, message passing: synchronous-asynchronous. Remote procedure call, rendezvous. Language Overviews: Turing Plus, Occam, Ada, SR, Linda.
Prerequisite: CS 409b
This course will normally be offered in the summer as an extension course.

CS 428ab Object-oriented Software Construction 3-3-0
Introduction to Object Oriented concepts and their application in programming and design. Encapsulation, polymorphism, dynamic binding and inheritance. Overview of Programming (C++, Smalltalk, Eiffel, Java and Scoops) and their implementations. Object Oriented Design, UML and Software design patterns. A survey of related fields such as Object Oriented Databases and Concurrent OOPLs. Practical programming assignments will be implemented in Java, Eiffel and/or C + +.
Prerequisite: CS 304b

CS 455ab Theoretical Aspects of Computer Science 3-3-0
The course will include several of the following topics: Computational models, Computational complexity; Finite-state machines; Context-free languages; Pushdown automata; Turing machines; Undecidable problems.
Prerequisite: CS 304, MAT 200

CS 457ab Database Software Design 3-3-0
This course covers how one can implement a Database Management system. Major topics are storage management, Query processing, and Transaction management. As a basic assumption, data will not all fit in main memory, so algorithms and data structures appropriate for effective disk storage and quick access must be used. For example, one may use index structures such as B-trees or hash tables. We cover parsing of queries and optimizing of query plans. Finally, we cover durability of transactions using logging, and concurrency control for isolation of transactions. Additional topics in distributed databases are also presented.
Prerequisite: CS 307

CS 462ab Image Processing 3-3-0
This course will introduce the area of Image Processing and present classical tools and algorithms in the field including: image perception, image acquisition and display, histogram techniques, image restoration, image enhancement, primitive operations for image analysis, segmentation, image transforms, and pattern and object recognition.
Some examples of industrial applications of image processing and some important developments in image processing research will be also addressed.
Prerequisites: CS 304, MAT 192, PHY 101 (or equivalent)

CS 463ab Computer Vision 3-3-0
This course is concerned with the computer acquisition and analysis of image data. Computer vision is the construction of explicit, meaningful descriptions of a physical object from images. Emphasis will be placed on: camera models and calibration, image representation, pattern recognition concepts, filtering and enhancing, segmentation, texture, motion from image sequences, deformable models, matching, stereovision, perceiving 3D from 2D images and tracking with dynamic models. The programming projects assigned in this course will make substantial use of the C and C++ programming languages
Prerequisites: CS 304, CS 318, MAT 192, PHY 101 (or equivalent)

CS 464ab Computer Networks 3-3-0
This course elaborates on the material considered in CS 315 (Data Communications). It presents computer networks at a functional level, with strong emphasis on programming distributed applications over a network. Discussion will be based on open networking and application standards such as the TCP/IP protocol suite and the Portable Operating System Interface (POSIX). Topics normally covered are TCP/IP architecture and programming, the client-server model, network file systems, streaming, tunnelling. Programming distributed applications (in C or C++) is an integral part of the course.
Prerequisite: CS 318 and CS 315 or equivalent experience in computer networks.

CS 467ab Special Topics in Algorithms 3-3-0
The course builds on the techniques covered in CS 317 to present some specialized algorithms in several areas, including Bioinformatics, Computational Geometry, and Network Flow.
Prerequisite: CS 317 or permission of the instructor

CS 469ab Special Topics in Computer Science 3-3-0
The course will present topics of current interest or research directions in Computer Science. The course content is expected to vary from year to year to reflect the current interests of students and faculty. It will be offered by arrangement with the department.

CS 471ab Graph Theory 3-3-0
An introduction to the combinatorial, algorithmic and algebraic aspects of graph theory.
Prerequisite: CS 304, MAT 200
Note: See MAT 421. Students may not take this course for credit if they have received credit for MAT 421.

CS 499f Honours Dissertation 6-0-0
The student is required to complete a theoretical or applied project. The subject is arranged with the student's supervisor during the first four weeks of term. A written dissertation is required as well as two seminar presentation.
Note: This course is open only to final year Computer Science Honour Students in the dissertation stream, and only by permission of the department.

Environmental Science – Major and Minor

Objective

The purpose of the Environmental Science program at Bishop's University is to provide students with an interdisciplinary, scientific education in the science of the environment, from a quantitative, physical science-based approach. The program is offered as both a Major, leading to a Bachelor of Science degree, and as a minor, to complement a student's other Honours or Major program of study.

Major Program – Outcomes

A student in the Major program will become versed in the chemical and physical aspects of the environment (atmosphere, energy, thermodynamics, fluid dynamics, etc.) in order to understand global phenomena such as climate change, pollution, environmental impact, and resource management. Students will gain knowledge of the Earth's ecosystems and how they are affected in both negative and positive ways by human activity. A broad selection of electives related to this field of study will allow students to pursue their own interests as they relate to the environment as well. Given that the search for solutions of complex environmental problems involves not only scientific, but also economic (and social and political) aspects, the Major program includes an Economics component to better prepare students to face such issues in their professional lives. Graduates from this program will be qualified to pursue further studies in graduate school or environmental law, or to seek employment in the ever expanding fields and disciplines involving environmental issues.

Minor Program – Outcomes

A student may add a Minor in Environmental Science to any other degree program (except a Major in Environmental Science). The exposure to introductory scientific and quantitative aspects of the physics and chemistry of the environment gained from this Minor program, will complement and broaden the education and skills of students majoring in other fields of study.

Entrance Requirements

Students are considered for admission to a B.Sc. degree program, Major in Environmental Science, based on the criteria specified in the Admissions section at the beginning of this academic calendar. Please refer to the Admissions section for all details concerning application and admission. Normally, students will have completed a Québec Diploma of Collegial Studies (DEC), or possess a high-school, grade 12 diploma, or the equivalent level of education from international origins. Students are admitted to a four-year, 120-credit program of study. Québec CEGEP graduates will receive up to one year of advanced standing (30 credits). If a student's DEC (from a Québec cegep) does not include some or all of the following seven courses: General Biology, General Chemistry, Solutions Chemistry, Mathematics: Differential Calculus, Mathematics: Integral Calculus, Physics: Mechanics, Physics: Electricity and Magnetism, then the advanced standing received for their DEC will be reduced accordingly.

Humanities Requirement

All Environmental Science Majors must complete six credits (two courses) of humanities studies, normally in their first year at Bishop's. Students who have a Québec Collegial Diploma (DEC), students admitted as "mature students", and 2nd Bachelor's degree students, are all given advanced credit to exempt them from this requirement. The Humanities Requirement is: ELA 116 Effective Writing, or another English course (coded "ENG"), and one additional course selected from courses in Classical Studies, English, History, Liberal Arts, Philosophy or Religion (courses coded CLA, ENG, HIS, LIB, PHI, or REL).

Arts and Science Requirement

All successful Environmental Science Majors will have atuomatically filled the University's Arts and Sciences requirement.

Environmental Science Major

Program Requirements

Students in the major program must fulfill the following credit requirements:

U1 science courses	21 credits / 7 courses
U1 humanities requirement *	6 credits / 2 courses
Environmental Science core	33 credits / 11 courses
Concentration Stream	21 credits / 7 courses
Environmental Studies and Geography cognates	9 credits / 3 courses
Economics cognates	12 credits / 4 courses
Free Electives	18 credits / 6 courses
Total	**120 credits / 40 courses**

**All students with a Québec DEC will be given advanced standing to satisfy this requirement.*

Notes:

1. Students with a Québec DEC will receive up to 30 credits of advanced standing in this program. Such students who are missing some/all of the collegial equivalents of the seven Bishop's U1 science courses: BIO 196, CHM 191 / 192, MAT 191 / MAT 192 and PHY 191 / PHY 192 (see table below) will have their advanced standing reduced accordingly.
2. Many science lecture courses have co-requisite laboratories, worth one additional "laboratory" credit. While the laboratories are mandatory, the lab credits earned do not count as lecture credits in meeting the program's total (lecture) credit requirements, as per the list above.
3. All students must also satisfy the English Writing Proficiency requirement, either by an exam or by registering in the course, EWP 099.

Required Courses – Program Schedule

(120 lecture credits + EWP + labs)

	Fall	Winter
U1	ENV 101 (Intro. Env. Science)	CHM 192 / CHL 192
	CHM 191 / CHL 191	PHY 192 / PHL 192
	PHY 191 / PHL 191	MAT 192
	MAT 191	HUMANITIES OPTION
	ELA 116	FREE OPTION 1
U2	CHM 141 / CHL 141 (Anal. Chem.)	ENV 241 (Env. Chem. I)
	CHM 111 / CHL 111 (Org. Chem. I)	PHY 207 (Thermal & Fluid Phy.)
	PHY 101 (Stats for Exp. Sci.)	ESG cognate 1 (chosen from list below)
	BIO 196 / BIL 196	Stream Course 1
	ESG 127 (Intro. Phys. Geog.)	Stream Course 2
U3	ECO 102 (Microeconomics)	ECO 103 (Macroeconomics)
	BIO 207 / BIL 207 (Ecology)	ENV 242 / EVL 242 (Env. Chem. II)
	ESG cognate 2 (from list below)	BIO 327 / BIL 327 (Adv. Ecology)
	Stream Course 3	ESG cognate course 3 (from list below)
	Stream Course 4	FREE OPTION 2
U4	ENV 337 (Economics of the Env.)	ENV 437 (Ecological Economics)
	Stream Course 5	ENV 375 (Environmental Physics)
	Stream Course 6	Stream Course 7
	FREE OPTION 3	FREE OPTION 5
	FREE OPTION 4	FREE OPTION 6

Concentration Streams

In addition to completing the required courses listed above, all students must choose either the Environmental Chemistry, or the *Environmental Physics concentration stream*. There are 7 courses to complete in the chosen concentration stream as per the lists below.

Environmental Chemistry Stream – *7 courses*

*(courses with an * have an associated lab)*

CHM 121	Inorganic Chemistry (winter)
CHM 131a*	Physical Chemistry I (fall)
CHM 211b*	Organic Chemistry II (winter)
CHM 221a*	Elements and Minerals (fall)
CHM 231b*	Physical Chemistry II (winter)
CHM 311a*	Organic Chemistry III (fall)
CHM 341a*	Molecular Spectroscopy (fall)

Environmental Physics Stream – *7 courses*

*(courses with an * have an associated lab)*

PHY 206*	Waves and Optics (fall)
PHY 319	Electric Circuits & Electronics
PHY 270	Ordinary Differential Eqns. (fall)
CS 211*	Programming Methodology (fall or winter)
MAT 108	Matrix Algebra (fall)
MAT 206	Advanced Calculus I (fall)
MAT 207	Advanced Calculus II (winter)

Environmental Studies and Geography Cognate Courses

All ENV students (3-year and 4-year) must choose 3 ESG courses from the following list:

ESG 226	Physical Oceanography
ESG 227	Biogeochemical and Environmental Oceanography
ESG 250	Geomorphology
ESG 251	Soils and Vegetation
ESG 265	The Atmosphere and Weather
ESG 267	Global Environmental Changes
ESG 361	Glacial Environments
ESG 367	Climate Change

Required Course List by components

(120 credits + EWP + labs)

I. U1 Science and Humanities Requirements

(9 courses / 27 credits + labs)

BIO 196 / BIL 196	Introductory Biology (and lab)
CHM 191 / CHL 191	General Chemistry I (and lab)
CHM 192 / CHL 192	General Chemistry II (and lab)
MAT 191	Calculus I
MAT 192	Calculus II
PHY 191 / PHL 191	Introductory Physics I: Mechanics (and lab)
PHY 192 / PHL 192	Introductory Physics II: Electricity and Magnetism (and lab)
ELA 116	Effective Writing

Humanities Elective Course 1xx – chosen from CLA, ENG, HIS, LIB, PHI, REL

II. Environmental Science Core

(11 courses / 33 credits + labs)

ENV 101	Introduction to Environmental Science

CHM 141 / CHL 141	Analytical Chemistry – An Environmental Approach (and lab)
CHM 111 / CHL 111	Organic Chemistry I (and lab)
ENV 241	Environmental Chemistry I – Energy and the Atmosphere
PHY 207	Thermal and Fluid Physics
BIO 207 / BIL 207	Introduction to Ecology (and lab)
ENV 242 / EVL 242	Environmental Chemistry II (and lab)
BIO 327 / BIL 327	Advanced Ecology (and lab)
ENV 375	Environmental Physics
ESG 127	Physical Geography
PHY 101	Statistics

III. Concentration Stream
(7 courses / 21 or 22 credits + labs)

All ENV students choose one concentration stream as per the table above.

IV. Environmental Studies & Geography Cognate Courses
(3 courses / 6 credits)

All ENV students must choose 3 ESG courses from the list above.

V. Economics Cognate Courses
(4 courses / 12 credits)

ECO 102	Introduction to Microeconomics
ECO 103	Introduction to Macroeconomics
ECO 237 / ENV 337	Economy of the Environment
ECO 337 / ENV 437	Ecological Economics

VI. Free Elective Courses *(6 courses / 18 credits)**

TOTAL **40 courses + labs**

**One of these courses must be chosen from the Divisions of Humanities or Social Sciences (to fulfill the "Arts and Science" requirement).*

Recommended Courses for Free Electives

Students in the four-year program must complete six free electives courses while the three-year students only complete five free electives. All courses in the concentration stream not chosen are recommended, plus any in the lists below:

Biology

BIO 197	The Evolution of Life
BIO 205 / BIL 205	Diversity of Life I (fall)
BIO 208 / BIL 208	Genetics (winter)
BIO 321	Biogeography
BIO 359	Human Genetics

Biochemistry

BCH 210	General Biochemistry
BCH 382	Environmental Biochemistry and Toxicology
BCH 383	Molecular Genetics

Chemistry

CHM 222 / CHL 222	Inorganic Chemistry III (winter)
CHM 331 / CHL 331	Physical Chemistry III (winter)
CHM 411	Organic Chemistry IV
CHM 431	Computational Chemistry and Molecular Modeling

Computer Science

CS 305	Data Mining for Scientists
CS 308	Scientific Programming

Mathematics

MAT 103	Environmental Modeling
MAT 209	Linear Algebra (winter)

Physics

PHY 208	Introduction to Mechanics (winter)
PHY 317	Statistical and Thermal Physics
PHY 371	Mathematical Methods of Physics (winter)

Environmental Studies and Geography

ESG 100	Introduction to Environmental Studies
ESG 126	Introduction to Human Geography
ESG 224	Human Impact on the Environment
ESG 249	Resource Management
ESG 266	Environmental Policy
ESG 358	International Environmental Issues
ESG 366	Ethical Perspectives on Environmental Problems

Marketing & Economics

ECO 270	Public Economics (winter)
BMK 350	Marketing Strategies for Environment Sustainability

Environmental Science Minor *(24 Credits)*

A Minor in Environmental Science consists of 24 credits or 8 courses after the completion of collegial science, or of receiving credit for U1 science at Bishop's, or the equivalent.* Among the 8 courses, 4 are required, namely,

ENV 101a	Introduction to Environmental Science
PHY 101a	Statistical Methods in Experimental Science
ESG 127a	Introduction to Physical Geography
ENV 241b / CHM 241b	Environmental Chemistry I: Atmosphere and Energy

The remaining 4 courses must be chosen from the following list** (and must include any co-requisite laboratories):

CHM 141a	Analytical Chemistry
CHM 111a	Organic Chemistry I: Introductory
PHY 207	Thermal and Fluid Physics
BIO 207a	General Ecology
ENV 242b / CHM 242b	Environmental Chemistry II: Water and Soil
ENV 337 / ECO 237	Economics of the Environment
BIO 327b	Advanced Ecology
ENV 375 / PHY 335	Environmental Physics
ENV 437 / ECO 337	Ecological Economics

Note: PHY 207, ECO 237, ECO 337, ENV 375 also require MAT 191a, MAT 192b, and/or ECO 102, and ECO 103 as prerequisites (or equivalent prerequisite calculus and introductory economics credit).

** Students without the CEGEP science background would be required to add the following U1 science courses to this minor: BIO 191a, CHM 191a, CHM 192b, PHY 191a and PHY 192b (and each of their co-requisite laboratory courses).*

*** One (1) of the 4 choices may be either MAT 103 Environmental Modeling, or an ESG course (200 level or higher), chosen from the "ESG cognate" list for the BSc. Environmental Science Major (list is above).*

Courses

ENV 101 Introduction to Environmental Science 3-3-0
This survey course introduces the student to environmental science from the physical, chemical, and biological points of view. Contents include a general introduction to the environment, energy, pollution, climate and weather, limits on renewable resources, and the Hubbert model. All of these topics are examined from a rigorous scientific perspective and include empirical analyses.

ENV 241 Environmental Chemistry I: Atmosphere and Energy 3-3-0
Note: See CHM 241. Students may not take this course for credit if they have received credit for CHM 241.

ENV 242 Environmental Chemistry II 3-3-0
Note: See CHM 242. Students may not take this course for credit if they have received credit for CHM 242.

EVL 242 Environmental Chemistry Laboratory 1-0-4
Note: See CHL 242. Students may not take this course for credit if they have received credit for CHL 242.

ENV 337 Economics of the Environment 3-3-0
Note: See ECO 237. Students may not take this course for credit if they have received credit for Economics 237.

ENV 375 Environmental Physics 3-3-0
This quantitative, calculus-based, course discusses fundamental environmental problems within a physical context. Topics covered include: the greenhouse effect, blackbody radiation, the ozone problem, mathematical techniques, heat transfer, electricity, the transport of pollutants, plumes, and basic groundwater hydrology.
Prerequisites: ENV 101; PHY 207.
Note : See PHY 335. Students may not take this course for credit if they have received credit for PHY 335

ENV 437 Ecological Economics 3-3-0
Note: See ECO 337. Students may not take this course for credit if they have received credit for ECO 337.

Mathematics

Mathematics is the language of the sciences, a language which allows scientists to quantify, model, understand and predict behaviour in an enormously diverse range of phenomena of interest. Simultaneously, Mathematics is often regarded as an art, as it is the creative study of patterns and of problem solving. Mathematics covers a wide range of disciplines including algebra, analysis, combinatorics and discrete mathematics, and differential equations. In first-year courses, mathematics students are joined by other science students, particularly from Physics and Computer Science. In the advanced courses, classes are very small, and some are given on an individual or tutorial basis.

The highest level of specialization is Honours, and Honours programs prepare students for direct entry into graduate work leading to a Master's or Ph.D. degree. All honours mathematics students have an opportunity to study independently and thus develop their reading and problem solving skills, and there is some chance to pursue special interests. The Majors programs provide students with an excellent general preparation for the career world, while not preventing entrance into graduate school (sometimes after a qualifying year). The Majors programs have sufficient electives to allow students to combine their major with a second major or at least a minor (the least specialized type of program) in another discipline. Students are encouraged to add a minor or major and many do so. Popular choices include computer science, physics, music, English, French, Spanish, drama, and philosophy. The Department of Mathematics offers several specialized, interdisciplinary programs, jointly with other departments, including Hispanic Studies and the School of Education.

Entrance Requirements

To enter a Mathematics program, a student will normally have completed either a Québec Collegial Diploma (DEC), or grade 12 in another Canadian province or the U.S.A., or the equivalent level of education internationally. All students will be admitted into a 120-credit program. Students with a DEC will generally be granted 30 advanced credits. All Bishop's students must additionally complete the English Writing Proficiency (EWP) requirement.

Students entering a Mathematics program at Bishop's from another Canadian University or College, or from accredited international post-secondary institutions, will have their transcripts of grades examined individually for possible transfer credit against a Bishop's program's requirements.

The requirements for Mathematics students differ depending on whether the degree being pursued is a B.Sc. or a B.A., and whether the student entered Bishop's after completing CEGEP in Québec, or after completing grade 12 (or the equivalent) in another province or elsewhere. Two or more Mathematics programs may not be combined in any Bishop's degree.

First-year Calculus requirement

All Mathematics students require six course credits of Calculus studies, normally in their first year. Students with a Québec collegial diploma (DEC) shall be granted advance credit for these courses if they have completed a course in Differential Calculus and a course in Integral Calculus at CEGEP. If one or both of these courses were not completed at CEGEP, they must be completed at Bishop's and advanced credits shall be reduced accordingly. Students entering four-year programs in Mathematics with a grade 12 diploma (or equivalent) must register in MAT 191 and MAT 192 in their first year. These courses are included in the 120 total credit requirement. Students transferring into Mathematics programs may use credit for MAT 198 to replace MAT 191, and MAT 199 to replace MAT 192. Credit for MAT 197 with a grade of 80% or higher will also be accepted to replace MAT 191. Mathematical Contexts Minor program students normally complete MAT 198 and MAT 199 (instead of MAT 191 and MAT 192, although these are also acceptable), and do not need to do so in their first year.

First-year Physics requirement

Mathematics students pursuing the Bachelor of Science (B.Sc.) degree require six course credits of introductory physics studies in their first year. Students in the Bachelor of Arts (B.A.) degree program are exempt from this requirement. Students with any DEC are exempt from this requirement if they have completed two introductory Physics courses, Mechanics, and Electricity and Magnetism, at CEGEP. If one or both of these courses were not completed, they must be completed at Bishop's and advanced credits shall be reduced accordingly. Students entering four-year

B.Sc. programs in Mathematics with a grade 12 diploma (or equivalent) must register in PHY 191 and PHY 192 in their first year.

Humanities requirement

Students must complete six course credits of humanities studies, normally in their first year at Bishop's. Students who have a Québec Collegial Diploma (DEC), students admitted as "Mature Students", and 2nd Bachelor's degree students are all exempt from this requirement. The Humanities requirement must include ELA 116 Effective Writing, or another English course (coded 'ENG'), and one additional course selected from Humanities courses in Classical Studies, English, History, Liberal Arts, Philosophy or Religion (courses coded CLA, ENG, HIS, LIB, PHI, or REL).

Arts and Science requirement

In addition to the Humanities requirement above, all students are required to complete at least three credits in either the Division of Humanities or the Division of Social Sciences. Students with program combinations which require more than 72 credits are exempt from this requirement.

Computer Science requirement

All Mathematics majors and honours students (except those in the Mathematics Education double major program) are required to complete the course CS 211 Programming Methodology.

Science Elective requirement

Mathematics students pursuing a Bachelor of Science degree must complete three courses (at least nine course credits) of science electives in their degree program. Students in any B.A. degree program are exempt from this requirement.

Mathematics Electives

Mathematics students (in any program) may not include courses from the list: MAT 190, MAT 191, MAT 192, MAT 196, MAT 197, MAT 198, MAT 199, as mathematics elective credits. Courses at the 460 level are only open to Honours students.

The courses MAT 190, MAT 196, MAT 197 are not accepted as credits for any Science or Mathematics degree. Mathematics courses MAT 190, MAT 191, MAT 192, MAT 196, MAT 197, MAT 198, MAT 199 may not be taken for credit by students who have already passed equivalent course(s) elsewhere. Students in Science programs, including Mathematics B.A., may receive a maximum of three credits in elementary statistics courses.

Matemáticas en Español

This is a unique program combining a Major in Mathematics, a Minor in Hispanic Studies as well as one year of Spanish immersion at the Universidad San Francisco de Quito in Ecuador. Contact the Chair of the department for more details.

Mathematics Education double Major; B.Sc., B.A.

These students will find their program course list and additional program requirements listed in the School of Education's section of this Calendar.

Mathematics Honours; B.Sc., B.A.

Normally a student is admitted to an Honours program after completing a minimum of 12 credits in Mathematics courses with an average of at least 70% and having achieved an average of 65% in all courses taken at Bishop's.

To continue in an Honours program the student must obtain an average of at least 70% in Mathematics courses in each academic year.

In order to graduate with a Mathematics Honours degree, the student must have an overall average of 70% in all Mathematics courses.

Requirements:

U1 (normally): MAT 191, MAT 192, ELA 116*, Humanities 1xx option*, PHY 191 & PHY 192 (for B.Sc. only).

MAT 108, MAT 200, MAT 206, MAT 207, MAT 209, MAT 220, CS 211, MAT 310, MAT 313, MAT 314, MAT 315, MAT 317, MAT 322, MAT 323

6 optional credits of Mathematics courses at the 100 level or higher,

9 optional credits of Mathematics courses at the 300 level or higher,

6 optional credits of Mathematics courses at the 400 level or higher,

6 optional credits of Mathematics courses at the 460 level,

3 credits to satisfy the Arts and Science requirement.

B.Sc. students must include at least 9 additional Science credits among their options.

**Students with a CEGEP DEC or mature students may be granted advanced credits for these courses.*

Total credits:

B.Sc.:	72 Mathematics, 6 Physics, 3 Computer Science, 9 Science options, 6 Humanities, 3 Arts and Science options, 24 credits of free electives
B.A.:	72 Mathematics, 3 Computer Science, 45 credits of free electives

The Programs

The Department of Mathematics offers the following degree programs:

Name of Program	Code	Levels of Specialization Available	Degree Types Available
Mathematics	MAT	Honours, Major or Minor	B.Sc. or B.A.
Mathematics Education	EDM	double Major with Education	B.Sc. or B.A.
Matemáticas en Español	n/a	Major in Mathematics combined with a Minor in Hispanic Studies	B.Sc. or B.A.
Mathematical Contexts	MAC	Minor	add to any

Recommended schedule:

	Fall	Winter
Year 1		
(for students in a four-year program or lacking some CEGEP requirements)		
	MAT 191	MAT 192
	PHY 191 (B.Sc. students)	PHY 192 (B.Sc. students)
	ELA 116	Humanities electives
	elective (B.A. students)	elective (B.A. students)
	elective	elective
	elective	elective
Year 2	MAT 200	MAT 220
	MAT 206	MAT 207
	MAT 108	MAT 209
	CS 211	elective
	elective	elective
Year 3	MAT 1xx	MAT 1xx
	MAT 313	MAT 314
	MAT 322	MAT 323
	MAT 3xx	MAT 3xx
	elective	elective
Year 4	MAT 315	MAT 317
	MAT 310	MAT 3xx
	MAT 4xx	MAT 4xx
	MAT 46x	MAT 46x
	elective	elective

This schedule is provided as a recommendation only. The order in which the courses are taken is subject to change. Students are encouraged to consult the Chair of the department before registering for their courses. The code MAT nxx refers to any 3-credit MAT course at the n-hundred level or higher.

Mathematics Major; B.Sc.,B.A.

Requirements:

U1 (normally) : MAT 191, MAT 192, ELA 116*, Humanities 1xx option*, PHY 191 & PHY 192 (for B.Sc. only)

MAT 200, MAT 206, MAT 207, MAT 108, MAT 209, CS 211

3 credits from the list {MAT 202, MAT 203 OR MAT 220}, MAT 310, MAT 313, MAT 314, MAT 315, MAT 322,

6 optional credits of Mathematics courses at the 100 level or higher,

9 optional credits of Mathematics courses at the 300 level or higher.

3 credits to satisfy the Arts and Science requirement.

B.Sc. students must include at least 9 additional Science credits among their options.

**Students with a CEGEP DEC and mature students will be granted advanced credits for these courses.*

Total credits:

B.Sc.:	54 Mathematics, 3 Computer Science, 6 Physics, 6 Humanities, 9 Science options, 3 Arts and Science options, 39 credits of free electives.
B.A.:	54 Mathematics, 3 Computer Science, 63 credits of free electives.

Recommended schedule:

	Fall	Winter
Year 1		
(for students in a four-year program or lacking some CEGEP requirements)		
	MAT 191	MAT 192
	PHY 191 (B.Sc. students)	PHY 192 (B.Sc. students)
	ELA 116	Humanities elective
	elective (B.A. students)	elective (B.A. students)
	elective	elective
	elective	elecive
Year 2	MAT 200	MAT {202 or 203 or 220}
	MAT 206	MAT 207
	MAT 108	MAT 209
	CS 211	elective
	elective	elective
Year 3	MAT 1xx	MAT 1xx
	MAT 313	MAT 314
	MAT 322	MAT 3xx
	elective	elective
	elective	elective
Year 4	MAT 315	MAT 3xx
	MAT 310	MAT 3xx
	elective	elective
	elective	elective
	elective	elective

This schedule is provided as a recommendation only. The order in which the courses are taken is subject to change. Students are encouraged to consult the Chair of the department before registering for their course. The code MAT nxx refers to any 3-credit MAT course at the n-hundred level or higher.

Mathematics Minor; B.Sc., B.A.

U1 (normally): MAT 191, MAT 192.

MAT 206a, MAT 207b, MAT 108a, MAT 209b or MAT 200a plus 12 additional mathematics credits, including at least 6 credits at the 300 level or higher.

Minor in Mathematical Contexts; B.A.

The ancient, rich and universal endeavor which is mathematics, underlies all of science and engineering. Increasingly however, mathematical contexts are entwined in the fabric of modern humanistic studies.

The mathematics of social choice is enlightening the study of politics, sociology and anthropology. The modern mathematics of management science is essential not only in the world of Business and Economics, but also to the work of human geographers who rely on mathematical modeling. Mathematical contexts reach even

to the creative arts. Here, new geometries, elliptic, hyperbolic, and most recently, fractal, are providing fresh and exciting sources of pattern and inspiration, the raw materials of the visual artist.

Statistics are encountered daily in every media, while statistical analyses have invaded every facet of modern life. Indeed, if for no other reason, educated persons today must understand mathematical concepts for the critical evaluation of data. Such is required in order to avoid deception and bogus claims based on false or misleading representations of statistics. Finally, the information age has given new context to an ancient mathematics: coding theory. From data encryption to internet security, mathematics is the context of modern human communication.

Many students of the Liberal Arts and Humanities, of Education and the Social Sciences, come to the discipline of Mathematics relatively late. Recently convinced of the necessity of broadening the mathematical context of their education, they nevertheless now face a language barrier. Not having pursued mastery of the high-school "advanced math" curriculum, or having gone "rusty" from lack of recent use, they now find the language of mathematics, that of quantitative reasoning, unfamiliar, foreign, and even intimidating.

It is for such students, that the Minor in Mathematical Contexts is intended. Here, mathematical concepts are developed and analytical thinking is employed, to systematically study patterns (raw materials of mathematics), discovered in diverse fields of study. The emphasis will be on mathematical context and thinking; not on techniques, computations, and prerequisite skills. An adult willingness to think deeply, and academic admission to Bishop's University, are the only prerequisites. In no way should these courses be confused with the "remediation" courses of other institutions: rectifying shortcomings in algebraic skills is not the goal. Rather, developing analytical problem solving skills in mathematical contexts is the objective. Successful students will find, incidentally, that their Bishop's B.A. degree has been significantly enhanced by this innovative program of study for citizens of the 21st century.

The minor in Mathematical Contexts can be added to any degree program and consists of the following courses:

MAT 200	Discrete Mathematics
MAT 108	Matrix Algebra
PHY 101	Statistical Methods
MAT 198*	Calculus I (for Life Sciences) prereq: Precalculus
MAT 199*	Calculus II (for Life Sciences) prereq: MAT 198

** (Remedial Precalculus and Algebra courses are available)*

An additional 15 course lecture credits in Mathematics must be chosen from among:

MAT 100	Excursions in Modern Mathematics*
MAT 101	Further Excursions in Modern Mathematics**
MAT 104	History of Mathematics
MAT 209	Linear Algebra prereq: MAT 108
MAT 202	Modern Geometry: Euclidean to Fractal prereq: MAT 200
MAT 220	Further Discrete Mathematics prereq: MAT 200
MAT 203	Number Theory
MAT 322	Introduction to Modern Algebra I prereq: MAT 200, MAT 209
MAT 323	Introduction to Modern Algebra II prereq: MAT 322

Notes: *The two courses, PMA 160 and PMA 260 may replace PHY 101 in the required list of courses. A student may not graduate with a double minor in mathematics.*

** The science version of this course, MAT 110 is also accepted.*

*** The science version of this course, MAT 111 is also accepted.*

Courses:

Note: See also the list of cognate courses at the end of this section.

MAT 100a Excursions in Modern Mathematics 3-3-0
An introduction to modern applied mathematics: social choice, management science, growth, symmetry, and descriptive statistics. Not intended as a numeracy course, nor for the remediation of algebraic shortcomings: computational complexity is minimal, and math prerequisites are absent. Instead, the methodology of mathematics is addressed: the use of unambiguous language and simplification to model practical problems, the types of answers the discipline can provide, and the notions of generalization and "open" problems. The course will allow the student to develop a sense of the nature of mathematics as a discipline, and an appreciation of its role in the modern world.
Note: Science students must enroll in MAT 110 instead of this course. Students may only receive credit for one of MAT 100 or MAT 110.

MAT 101b Further Excursions in Mathematics 3-3-0
Further topics in modern applied mathematics. A continuation of the style and subjects in MAT 100, this course is also not intended to redress deficiencies in numeracy, nor does it have any mathematical prerequisites. Topics may include growth models, game theory, linear programming, fractal geometry, coding theory, non-Euclidean geometry and selected current readings.
Note: Science students must enroll in MAT 111b instead of this course. Students may only receive credit for one of MAT 101 and MAT 111.

MAT 103 Environmental Modeling 3-3-0
The course will teach students to apply mathematical modeling principles and techniques to problems arising in the environmental sciences. Students will gain some understanding of basic mathematical models and techniques employed in the environmental sciences, and will practice the important skill of interpreting the results obtained from these models. The course will consist of a topics based, interdisciplinary approach to basic mathematical modeling. Topics covered may include ground water transport, air pollution such as modeling of ground-level ozone, hazardous materials disposal modeling, mathematical models for population growth, environmental economics, oil spill mitigation and avoidance, micro-climate weather predication, or others. The mathematics involved will be largely elementary, at a level suitable for a high-school graduate with credit for a university-preparatory level mathematics course.
Prerequisite: MAT 190 or equivalent, or permission of the instructor.

MAT 104 History of Mathematics 3-3-0
This course is designed to help history, philosophy, and education students come to a deeper understanding of the mathematical side of culture by means of writing short essays. Mathematics majors acquire a philosophical and cultural understanding of their subject by means of doing actual mathematics problems from different eras. Topics may include perfect numbers, Diophantine equations, Euclidean construction and proofs, the circle area formula, the Pell equation, cubic equations, the four square theorem, quaternions, and Cantor's set theory. The philosophical themes of infinity and Platonism recur repeatedly throughout the course.

MAT 108a Matrix Algebra 3-3-0
Operations on matrices, transpose and inverse. Systems of linear equations. Determinants. Linear transformations. Eigenvalue and eigenvectors. Vector spaces. Bases and dimension. Rank and nullity. Applications.

MAT 110a Excursions in Modern Mathematics 3-3-0
This is the same course as MAT 100 but it is intended that science students would enroll in this course and complete assignments that are more appropriate to their needs.
NOTE: Students may only receive credit for one of MAT 100 or MAT 110.

MAT 111b Further Excursions in Mathematics 3-3-0
This is the same course as MAT 101b but it is intended that science students would enroll in this course and complete assignments that are more appropriate to their needs.
Note: See MAT 101b. Students may only receive credit for one of MAT 101 and MAT111.

MAT 190ab Precalculus Mathematics 3-3-0
Review of algebra. Sets, Functions, graphs. Slope and equation of a straight line. Equation of a circle. Exponential and logarithm functions with applications. Arithmetic and geometric progressions. Permutations and Combinations.
Students who have received credit for an equivalent course may not receive credit for this course.
Students who have received credit for any math class numbered MAT 19X or higher may not receive credit for this course.
Science students may only receive credit for this course with consent of their Departmental Chair.

MAT 191a Enriched Calculus I 3-3-0
Elementary functions, limits, continuity. The derivative, differentiability, mean value theorem. Maxima and minima, Fermat's theorem, extreme value theorem, related rates, L'Hospital's rule. Applications. Riemann sums, definite integral. Emphasis is on an analytical understanding.
This course is for students who lack collegial MAT 103 or the equivalent.
This course is required for all students in Mathematics, Physics and Computer Science.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of MAT 191a, MAT 197ab, and MAT 198ab.

MAT 192b Enriched Calculus II 3-3-0
Area. The definite integral. The Fundamental Theorem of Calculus. Techniques of integration. Volumes, centres of mass, moments of inertia, arclength and other applications of integration. Mean value theorem for integrals. Emphasis is on analytical understanding.
Prerequisite: MAT 191a or a grade of at least 70% in MAT 198a or 80% in MAT 197ab.
This course is for students who lack Collegial Mathematics NYB or the equivalent.
This course is required for all students in Mathematics, Physics and Computer Science.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of MAT 192b and MAT 199b.

MAT 196ab Finite Mathematics for Business Students 3-3-0
This course aims to familiarize business students with the fundamentals of linear algebra required by disciplines such as Statistics, Finance, Management, Economics, and others. Topics covered in this course include: review of high school algebra, arithmetic and geometric sequences, sums of sequences, inequalities in one and two variables, linear equations, introduction to matrices, matrix algebra: addition, multiplication ,inverses, and Gaussian elimination.

MAT 197ab Calculus for Business Students 3-3-0
This course aims to familiarize business students with the fundamentals of calculus required by disciplines such as Statistics, Finance, Management, Economics, and others. Topics covered include: introduction to limits, differential calculus with one variable with applications, functions with several variables, partial derivatives, area under a curve.
Prerequisite: MAT 196 or the equivalent or consent of the instructor.

MAT 198a Calculus I (for Life Sciences) 3-3-0
Elementary functions, limits, tangent line approximations. The derivative, and differentiation rules. Continuous optimization in one variable. Applications to Biology, Chemistry, Medicine and Environmental Science. The emphasis is on conceptual understanding and computational competency.
This course is intended for students who lack collegial Mathematics NYA or the equivalent.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of MAT 191a, MAT 197ab, and MAT 198ab.

MAT 199b Calculus II (for Life Sciences) 3-3-0
The definite integral, area, integration by substitution and parts. Applications to Biology, Chemistry, Medicine and Environment Science. Separable and linear differential equations. The emphasis is on conceptual understanding and computational competency.
Prerequisite: MAT 198ab or MAT 191a or the equivalent.
This course is intended for students who lack collegial Mathematics NYB or the equivalent.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of MAT 192b and MAT 199b.

MAT 200a Introduction to Discrete Mathematics 3-3-0
Combinatorics. Propositional logic. Induction. Sets. Quantifiers. Recursion relations.

MAT 202b Modern Geometry: Euclidean to Fractal 3-3-0
Particularly recommended for elementary and high-school teachers. Euclidean, elliptic and hyperbolic geometries, and applications: modern graphics, fractal images and the work of analytical artists like M.C. Escher.
This course must be taken concurrently with Mathematics laboratory 202b (MAL 202b)
Prerequisite: MAT 200
Corequisite: MAL 202b

MAL 202b Mathematics Lab: Modern Geometry by Laboratory Explorations 1-0-3
Geometry explorations using Geometer's Sketchpad software. Projects will enhance the learning of the curriculum of the course MAT 202 which must be taken concurrently.
Corequisite: MAT 202b

MAT 203a Number Theory 3-3-0
A classical discipline, number theory has become the spectacularly successful language of modern cryptography and coding theory. This course is a gentle introduction to the classical theory and modern applications. Topics may include: unique factorization and congruences, group of integers modulo n and its units, Fermat's little theorem, Fermat's last theorem, Euler's function, Wilson's theorem, Chinese remainder theorem, quadratic repricocity, Gaussian integers.
Prerequisite: MAT 200

MAT 206a Advanced Calculus I 3-3-0
Vector-valued functions,parametric curves, arc-length, curvature. .Functions of 2 and 3 variables. Partial Derivatives, directional derivatives, differentials. Lagrange multipliers. Multiple integrals and applications. Change of variables and Jacobians.
Prerequisite: MAT 192b or a grade of at least 80% in MAT 199b.
Corequisite: MAT 108a

MAT 207b Advanced Calculus II 3-3-0
Line integrals. Surface integrals. Green's theorem. Divergence theorem. Stoke's theorem. Differential operator. Sequences and series. Taylor series and polynomials. Power series.
Prerequisite: MAT 206a

MAT 209b Linear Algebra 3-3-0
Diagonalization. Inner product spaces. Gram-Schmidt process. Change of basis. Complex vector spaces. Systems of differential equations. Applications.
Prerequisite: MAT 108a

MAT 220b Further Discrete Mathematics 3-3-0
Relations: functions, equivalence relations, partially ordered sets. Zorn's lemma. The axiom of choice. Cardinality and counting. Graph theory. Solving recurrence relations.
Prerequisite: MAT 200a

MAT 310a Ordinary Differential Equations 3-3-0
Techniques for solving first and second order linear differential equations. Systems of first order equations. Power series solutions for second order equations including the method of Frobenius. Various applications of differential equations.
Prerequisite: MAT 206
See PHY 270
Students may not take this course for credit if they have received credit for PHY 270

MAT 311b Mathematical Methods of Physics 3-3-0
Discussion of series solutions in connection with the gamma function and Bessel, Legendre and hypergeometric functions. Laplace transform with applications. Elementary trigonometric Fourier series and boundary value problems. Certain partial differential equations of physics.
Prerequisites: MAT 310a
See PHY 371
Students may not take this course for credit if they have received credit for PHY 371

MAT 313a Introduction to Probability 3-3-0
Discrete and continuous distributions. Moments, mean and variance. Moment generating functions. Multivariate distributions. Laws of large numbers. Sampling distributions. Central Limit Theorem.
Prerequisite: MAT 206a

MAT 314b Introduction to Mathematical Statistics 3-3-0
Further sampling distributions: Chi-square, t and F. Estimation, confidence intervals. Hypothesis testing, theory and practice. Regression and correlation. Analysis of Variance. Nonparametric methods.
Prerequisite: MAT 313a

MAT 315a Real Analysis I 3-3-0
Real number system. Completeness theorem. Sequences of real numbers. Bolzano-Weierstrass Theorem. Cauchy sequences. Series of real numbers. Limits. Continuous functions. Differentiation. Mean-Value Theorem. L'Hospital's rule. Riemann integration. Fundamental Theorem of Calculus.
Prerequisite: MAT 207b.

MAT 316b Real Analysis II 3-3-0
The generalized Riemann interal (improper integrals). Sequences and series of functions. Pointwise and uniform convergence. Power series. Taylor series. Classical theorems (integration, differentiation, Weierstrass M-test. Cauchy-Hadamard theorem). Equicontinuity. Ascoli-Arzela theorem. Stone-Weierstrass approximation theorem).
Prerequisite: MAT 315a

MAT 317b Complex Analysis 3-3-0
Sequences and series of complex numbers. Functions. Limits. Continuous functions. Analytic functions. Cauchy-Riemann equations. Contour integration. Cauchy's theorem. Cauchy integral formula. Taylor and Laurent series. Singularities and residues.
Prerequisite: MAT 207b

MAT 322a Introduction to Modern Algebra I 3-3-0
Introduction to the theory of groups. Symmetries of a square. The dihedral groups. Cyclic groups, permutation groups. Isomorphisms, external and internal direct sums. Cosets and Lagrange's theorem. Factor groups.
Prerequisite: MAT 200a, MAT 209b

MAT 323b Introduction to Modern Algebra II 3-3-0
Additional topics from group theory. Introduction to Ring Theory. Integral Domains and Fields. Factorization of Polynomials. Finite Fields. Introduction to Algebraic Coding Theory.
Prerequisite: MAT 322a

MAT 324 Cryptography 3-3-0
Cryptography is a key technology in electronic security systems. The aim of this course is to explain the basic techniques of modern cryptography and to provide the necessary mathematical background. Topics may include: the classical encryption schemes, perfect secrecy, DES, prime number generation, public-key encryption, factoring, digital signatures, quantum computing.
Prerequisites: MAT 200, MAT 108
Professor Brüstle

MAT 325b Numerical Methods 3-3-0
Numerical techniques for problem solving in Mathematics, Computer Science and Physics. Error analysis, roots of equations, QR-algorithm, interpolation, Numerical approaches to differentiation, integration and solutions of differential equations.
Prerequisites: CS 211. MAT 207, MAT 108.
Note: See CS 375 and PHY 375.
Students may not take this course for credit if they have received credit for CS 375 or PHY 375.

Mathematics 326a Mathematical Problem Solving 3-3-0
A course designed to foster problem solving abilities in mathematics. New mathematical concepts will be introduced to the student through solving specific problems. Problems will be taken from Putnam and Mathematics Olympiad competitions and from actuarial examinations.
Prerequisites: MAT 200, MAT 207, MAT 108

Mathematics 401b Vector Analysis 3-3-0
Algebra of vectors. Vector-valued functions. Vector differential and integral calculus. Theorems of Gauss, Green and Stokes. Differential forms. Differentiability in Rn. Inverse function theorem.
Prerequisite: MAT 207b.

MAT 402b Tensor Analysis 3-3-0
General curvilinear coordinates. Differential forms. Bilinear forms and tensors of rank two. Tensor algebra and tensor calculus.
Prerequisite: MAT 401a.

MAT 405b Calculus of Variations 3-3-0
Euler-Lagrange equations for constrained and unconstrained single and double integral variational problems. Parameter-invariant single integrals. General variational formula. The canonical formalism. Hilbert's independent integral. Hamilton-Jacobi equation and the Cavatheodory complete figure. Fields and the Legendre and Weierstrass sufficient conditions.
Prerequisites: MAT 207, MAT 310
See PHY 376
Students may not take this course for credit if they have received credit for PHY 376

MAT 406b Differential Geometry 3-3-0
Curves in 3-space. Euclidean motions, surface theory. Introduction to differential manifold, Guassian and mean curvature, imbedding conditions. Geodesics, parallel transport and the Gauss-Bonnet Theorem.
Prerequisite: MAT 207, MAT 310

MAT 421a Graph Theory 3-3-0
An introduction to the combinatorial, algorithmic and algebraic aspects of graph theory.
Prerequisite: MAT 200

MAT 431b Metric Spaces and Topology 3-3-0
Sets, functions, images and preimages. Topological spaces, metric spaces. Open and closed sets, accumulation points, continuous functions, homeomorphisms. Some topological properties, particularly connectedness and compactness.
Pre-requisite: MAT 315a, or consent of the instructor.

MAT 446 Independent Study 3-3-0
This course aims to familiarize mathematics students with fundamental knowledge, skills and techniques in a chosen field of mathematics.
Offered by arrangement

460 level courses are for Honours students only

MAT 460a, MAT 461b Topics in Algebra I and II 3-3-0
A selection is made to suit the interests of students from such topics as: ring theory, introduction to homological algebra, introduction to group representations or commutative algebra.
Prerequisite: MAT 209b, MAT 323b or consent of instructor.
Offered by arrangement.

MAT 462a Topics in Analysis I 3-3-0
Normed spaces, Banach and Hilbert spaces, Hilbert space operators, Normed algebras, Stone-Weierstrass theorem. Special function spaces.
Prerequisite: MAT 316b.

MAT 463b Topics in Analysis II 3-3-0
Theory of integration. Measurable functions, measures and integrable functions. Lebesque spaces. Models of convergence. Decomposition and generation of measures. Product measures.
Prerequisite: MAT 316b.
Offered by arrangement.

MAT 464a, MAT 465b Topology 3-3-0
Offered by arrangement.

MAT 466a Independent Studies I 3-0-0
Open to final-year honours students by arrangement with the department.

MAT 467b Independent Studies II 3-0-0
See MAT 466a.

Cognate Courses:

The following courses may count as 200-level Mathematics options:

EMA 262ab Mathematical Economics I

PHY 208a Introduction to Mechanics

The following courses may count as 300-level Mathematics options:

CS 308 Scientific Programming

CS 317 Design and Analysis of Algorithms

CS 455 Theoretical Aspects of Computer Science

EMA 361ab Econometrics II

EMA 362ab Mathematical Economic II

PHY 318 Advanced Mechanics

Physics

Physics is often regarded as the cornerstone of the Natural Sciences. It encompasses a diverse range of disciplines including photonics, electronics, astrophysics, particle physics, and solid state physics. The BSc Major program prepares students for industry, education and, on completion of a qualifying year, graduate work in physics. The Major program has sufficient electives to allow a substantial number of courses to be taken in another discipline (minor program), or even a second Major program in a related discipline. The BSc Honours program prepares students for direct entry into graduate work in physics (leading to an MSc or PhD degree). Students may be admitted into the Honours program after one year is completed in the Physics Major program.

The **Master of Science** (MSc) program is designed to give students a deeper appreciation of physics while at the same time training them to become independent researchers. Graduate supervision is available in a wide variety of disciplines including astrophysics, theoretical cosmology and gravitational theory, and particle physics.

Undergraduate Programs

Minor:

A minor in Physics consists of PHY 101, PHY 206, PHL 206, PHY 207, PHY 208 and four other lecture courses in Physics selected from 200 and 300 level courses. The total course credit requirement for the minor is 24 credits.

Major:

The following courses are required for a Physics Major: PHY 101, PHY 206, PHY 207, PHY 208, PHY 270, PHY 315, PHY 316, PHY 317, PHY 318, PHY 319, PHY 320, PHY 321, PHY 361, PHY 371; MAT 108, MAT 206, MAT 207, MAT 209; CS 211.

Total: 42 lecture-course credits physics, 12 credits mathematics, 3 credits computer science, 30 credits options, = **87 lecture-course credits.**

Physics labs: PHL 206, PHL 385, PHL 386, PHL 387, PHL 388, Computer Science lab: CSL 211. Total of **10 lab-course credits.**

When any lecture course (e.g., PHY 206), also has an associated laboratory course (e.g. PHL 206), both the lecture and laboratory courses must be taken concurrently.

Laboratory credits thus obtained are in addition to the total required lecture credits specified above for the program.

Honours:

The following courses are required for the Physics Honours: PHY 101, PHY 206, PHY 207, PHY 208, PHY 270, PHY 315, PHY 316, PHY 317, PHY 318, PHY 319, PHY 320, PHY 321, PHY 361, PHY 371, PHY 462, additional 400-level course, 480; MAT 108, MAT 206, MAT 207, MAT 209, MAT 317; CS 211.

Total: 54 lecture-course credits physics, 15 credits mathematics, 3 credits computer science, 15 credits options, = **87 lecture-course credits**.

Physics labs: PHL 206, PHL 385, PHL 386, PHL 387, PHL 388, Computer Science lab: CSL 211. Total of **10 lab-course credits.**

When any lecture course (e.g., PHY 206) also has an associated laboratory course (e.g. PHL 206), both the lecture and laboratory courses must be taken concurrently. Laboratory credits thus obtained are in addition to the total required lecture credits specified above for the program.

Entrance Requirements for Honours Program:

A student will normally be admitted to the honours program after obtaining at least a 70% average on all required second-year (200-level) physics and mathematics courses. In order to complete an honours degree, a student must normally obtain an average of at least 65% in required physics courses in each academic year.

Laboratory Courses:

When any lecture course (e.g., PHY 206) also has an associated laboratory course (e.g. PHL 206), both the lecture and laboratory courses must be taken concurrently. Laboratory credits thus obtained are in addition to the total required lecture credits specified above for the program.

Graduate Programs

Entrance Requirements (MSc):

Students who have completed a BSc degree in physics with at least a B average will be considered for admission into the graduate program. Students who have completed only a major in the subject may be required to take additional courses at the Master's level. Students who have been admitted will be assigned a supervisor by the Chair of Physics. The student's research interests will be taken into consideration when a supervisor is assigned. Current areas of research in the department include astrophysics, gravity and cosmology, particle physics and theoretical physics.

Course Requirements (MSc):

The MSc degree requires the successful defense of a thesis (15 credits), participation in the seminar series (18 credits), and the completion of a minimum of 12 credits in course work. Course selection is determined in consultation with the thesis supervisor and departmental chair. All MSc students must make an oral presentation and defense of their thesis before graduating. The normal period for completion of the M.Sc. degree requirements is two academic years (four semesters). The minimum number of credits required to complete the program is 45.

COURSE GROUPINGS

Elective Courses (Liberal Science Options)

These courses are open to any students with little or no scientific background.

PHY 111	Physics of Everyday Phenomena
PHY 112	Introduction to Holography
PHY 113	Introduction to Astronomy

Physics Major and Honours Courses

Four-year Program (BSc) for High School Graduates

1st year: Courses have numbers that start with 100 to 199.
2nd year: Courses have numbers that start with 200 to 299.
3rd year: Courses have numbers that start with 300 to 399
4th year: Courses have numbers that start with 400 to 499.

Note that 3rd year students may take 400-level courses if they have the prerequisites.

Three-year Program (BSc) for CEGEP Graduates in Pure Science

1st year: Courses have numbers that start with 100 to 299.
2nd year: Courses have numbers that start with 300 to 399.
3rd year: Courses have numbers that start with 400 to 499.

Note that 3rd year students may take 400-level courses if they have the prerequisites.

Physics Honours Courses

Final-year Honours physics courses have numbers that start with 400 and end at 480.

Graduate Courses

All graduate MSc courses have numbers that start with 500 or above.

COURSE DESCRIPTIONS

PHY 101 Statistical Methods in Experimental Science 3-3-0
This course is specifically designed to meet the needs of students of physics, chemistry, biology, mathematics and computer science. Topics include: errors of observation, graphical visualization of data; descriptive analysis, elementary probability, permutations and combinations; the binomial, normal and Poisson distributions; random sampling; testing hypotheses, significance levels, confidence limits, large and small sampling methods; regression and correlation; chi-square test; analysis of variance (ANOVA).
Note: In order for students to obtain credit for both PHY 101 and MAT 315, PHY 101 must be taken first or concurrently. Students who are enrolled in, or who have credit for, PMA 160, BMA 141, or EMA 141 may not enrol in this course.

PHY 111 The Physics of Everyday Phenomena 3-3-1
This course is designed to meet the needs of non-science students by providing them with a practical introduction to physics and science as it is applies to everyday life. Students are assumed to have no background in math or science. By allowing students to practice science through practical demonstrations of physical phenomena and engaging in small-group inquiry and discussion, they will learn to think logically when solving problems, enhance their scientific literacy, and develop their physical intuition. Typical questions that will be addressed include: Why is the sky blue? Why purchase a car with an anti-locking brake system (ABS)? Where is lightning most likely to strike and how can you best protect yourself? How do medical scanning procedures such as MRI work? Does a curve ball really curve or is it an optical illusion?
Note: Students enrolled in a program in the Division of Natural Sciences and Mathematics cannot use this course for science credits.

PHY 112 / FIN 209 Introduction to Holography 3-3-0
This course is designed to give students an introduction to the principles of laser holography (3-D photography) while at the same time providing them with the opportunity to create holograms in the laboratory. Students are assumed to have no background in mathematics or science. Students will make holograms using single and multiple beam reflection and transmission techniques. Special topics related to the making of rainbow, colour, and other types of holograms will be discussed and attention will be given to the application of this medium as a form of visual expression. In addition students will be able to apply their knowledge to create holograms at home (sandbox holography).
Prerequisite: permission of the instructor.
See FIN 209
Students may not take this course for credit if they have received credit for FIN 209
Students enrolled in a program in the Division of Natural Sciences and Mathematics cannot use this course for science credits.

PHY 113 Introduction to Astronomy 3-3-1
An outline of our knowledge of the size, structure and possible origin of the Universe. Starting with the primitive speculations of the Greeks, the course ends with the theory of the expanding universe and its origin in the "Big Bang".
Prerequisite: Students should have a background in high school mathematics.

PHY 191a Introductory Physics I (Mechanics) 3-3-0
This course is designed to give students an introduction to classical mechanics. Topics that will be covered include statics, particle kinematics in one and two dimensions, particle dynamics and Newton's Laws, conservation of energy and momentum, and rotational kinematics and dynamics.
Corequisite: MAT 191a, or MAT 198a
This course should be taken concurrently with Physics Lab 191 (PHL 191). This course is for students who lack collegial Physics NYA. Students who have received credit for an equivalent course taken elsewhere may not register for this course. Credit will be given for only one of PHY 191a, PHY 193a or PHY 199f.

PHL 191a Introductory Physics Laboratory I 1-0-3
A series of experiments in General Physics to complement the material covered in PHY 191a.
This course must be taken concurrently with PHY 191a. May not be taken for credit if credit has been granted for PHL 193a.

PHY 192b Introductory Physics II (Electricity and Magnetism) 3-3-0
This course is designed to give students an introduction to electromagnetism and its applications. Topics that will be covered include Coulomb's Law, electric fields, electric potential, capacitance, direct current circuits, magnetism, electromagnetic induction, alternating current circuits, and electromagnetic waves.
Prerequisite: PHY 191a, PHY 193a, or the permission of the instructor.
Corequisite: MAT 192b, or MAT 199b
This course should be taken concurrently with PHL 192b. This course is for students who lack collegial Physics NYB. Students who have received credit for an equivalent course taken elsewhere may not register for this course. Credit will be given for only one of PHY 192b, PHY 194b or PHY 199f.

PHL 192b Introductory Physics Laboratory II 1-0-3
A series of experiments in General Physics to complement the material covered in PHY 192b.
This course must be taken concurrently with PHY 192b. May not be taken for credit if credit has been granted for PHL 194b.

PHY 193a Physics for the Life Sciences I 3-3-0
This course is designed to emphasize topics of particular relevance to the life sciences. Topics that will be covered include: mechanics (statics, kinematics, dynamics, conservation of energy and momentum, rotational motion); fluid dynamics (pressure, elasticity, viscosity, diffusion); and thermodynamics (temperature, heat transport, kinetic theory of gases). Concepts and problem-solving skills are emphasized.
Corequisite: MAT 191a or MAT 198a
This course should be taken concurrently with PHL 193a. This course is for students who lack collegial Physics NYA.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of PHY 191a, PHY 193a, and PHY 199f.

PHL 193b Physics for the Life Sciences Laboratory I 1-0-3
A series of experiments in college physics to complement the material covered in PHY 193a.
This course must be taken concurrently with PHY 193a. May not be taken for credit if credit has been granted for PHL 191a.

PHY 194b Physics for the Life Sciences II 3-3-0
This course is designed to emphasize topics of particular relevance to the life sciences. Topics that will be covered include: vibrations and waves; sound; electrostatics (charges, electric fields and potential); circuits; magnetism (forces, induction, electromagnetic waves); optics (interference, diffraction, instruments); and modern physics (atoms, radioactivity, MRI, CAT).
Prerequisite: PHY 191a or PHY 193a or the permission of the instructor.
Corequisite: MAT 192b or MAT 199b.
This course should be taken concurrently with PHL 194b. This course is for students who lack collegial Physics NYB.
Students who have received credit for an equivalent course taken elsewhere may not register for this course.
Credit will be given for only one of PHY 192b, PHY 194b, and PHY 199f.

PHL 194b Physics for the Life Sciences Laboratory II 1-0-3
A series of experiments in college physics to complement the material covered in PHY 194b.
This course must be taken concurrently with PHY 194b. May not be taken for credit if credit has been granted for PHL 192b.

PHY 199 Introduction to University Physics 6-6-0
An introduction to the fundamentals of classical physics. Concepts and problem-solving skills are emphasized. Topics in the area of mechanics include: translational, rotational, and oscillatory motion; Newtonian dynamics; conservation of energy, linear momentum, and angular momentum; heat and the kinetic theory of gases. Topics in the area of electricity and magnetism include: electric fields and potentials; AC and DC circuit theory; magnetism and the properties of magnetic materials; electromagnetic waves and optics.
Prerequisites: Students must normally have completed upper-level high school physics and mathematics courses, or must satisfy admission requirements into the B.Sc. degree at Bishop's University. Students taking this course require a knowledge of basic calculus which may be gained concurrently.
Corequisite: PHL 199
Students may not have credit for both PHY 199 and other introductory physics courses (i.e., PHY 191 and PHY 192 or their equivalents).

PHL 199 Introduction to University Physics Laboratory 2-0-6
A series of experiments that complements the lecture material in PHY199. This laboratory course includes experiments in measurement and uncertainty, statics, dynamics, collisions, AC and DC circuit analysis, electrostatics, magnetism optics and thermodynamics.
Corequisite: PHY 199
Students may not have credit for both PHL 199 and other introductory physics laboratory courses (i.e., PHL 191a and 192b or their equivalents).

PHY 206 Waves and Optics 3-3-0
Wave phenomena. Wave and photon theories of light. Huygen's Principle and its applications. Geometrical optics. Optical instruments. Basic models of Interference, Diffraction and Polarization of light.
Prerequisite: PHY 191 or PHY 193
Corequisite: PHL 206

PHL 206 Waves and Optics Laboratory 1-0-3
Experiments in geometrical and physical optics and wave motion. This course must be taken concurrently with PHY 206.

PHY 207 Thermal and Fluid Physics 3-3-0
Pressure, hydrostatics, and hydrodynamics. Properties of materials and Young's Modulus. Temperature and Heat. Kinetic theory of gases. Energy, work, heat. First, second, and third laws of thermodynamics. Entropy and Disorder. Specific heat of solids, black body radiation, statistical thermodynamics involving different distributions and their applications.
Prerequisite: PHY 191 (or equivalent)

PHY 208 Introduction to Mechanics 3-3-0
Statics: equilibrium of bodies subject to many forces. Kinematics; rectilinear, plane, circular and simple harmonic motion. Dynamics: conservation of mechanical energy and momentum; plane and circular motion of particles; rotation of macroscopic bodies. Non-Inertial Frames.
Prerequisite: PHY 191 or equivalent and PHY 270 (or equivalent), or permission of the instructor

PHY 214 Astronomy and Astrophysics 3-3-0
A survey of our understanding of the physical properties of the universe. Topics to be studied include: observational astronomy, stellar evolution, binary stars, white dwarfs, neutron stars, black holes, galaxies, quasars, large scale structure of the universe, and cosmology.
Prerequisite: PHY 191 (or equivalent), MAT 191 (or equivalent), or permission of the instructor.

PHY 270 Differential Equations 3-3-0
Techniques for solving first and second order linear differential equations. Systems of first order equations. Power series solutions for second order equations including the method of Frobenius. Various applications of differential equations.
Corequisite: MAT 206
Note: See MAT 310. Students may not take this course for credit if they have received credit for MAT 310.

PHL 286 Waves, Optics, & Electromagnetism Laboratory 1-0-3
A series of experiments in wave motion, geometrical and physical optics, and electricity and magnetism to complement the material covered in the lecture courses PHY 191 and PHY 206.
Corequisites: PHY 191 and PHY 206

PHY 315 Relativity Theory 3-3-0
Special Relativity. Lorentz Transformations. The geometry of space-time. Relativistic mechanics of massive and massless particles. Elementary Particles.
Corequisite: PHY 208
Offered alternate years

PHY 316 Physical and Contemporary Optics 3-3-0
Wave theory, polarization, interference diffraction. Basics of coherence theory, lasers, holography. Quantum nature of light.
Prerequisite: PHY 206
Offered alternate years

PHY 317 Statistical and Thermal Physics 3-3-0
The statistical definition of entropy and temperature. Statistical Ensembles. The Planck and Maxwell-Boltzmann distributions. The Fermi and Bose distributions. Thermodynamic functions. Applications of Fermi-Dirac and Bose-Einstein statistics.
Prerequisite: PHY 207
Offered alternate years

PHY 318 Advanced Mechanics 3-3-0
Newtonian gravitation and central forces: planetary orbits; tides. The Lagrangian and Hamilton's Principle. Applications to the dynamics of particles. Theory of Vibrations and Small Oscillations. Dynamics of macroscopic bodies. Non-linear dynamics.
Prerequisite: PHY 208, PHY 270, or permission of the instructor.
Offered alternate years

PHY 319 Electric Circuits and Electronics 3-3-0
Review of D.C. circuits, Kirchoff's laws, network theorems. Network analysis for A.C. circuits, phasors. Diode circuits and filters. The physical basis of semiconductor devices including semiconductor diodes, junction transistors, and field-effect transistors. The operation of transistor amplifiers, digital electronics and integrated circuits will also be covered.
Prerequisite: PHY 192 or NYB or permission of instructor.
Note: See CS 372.
Students may not take this course for credit if they have received credit for CS 372.

PHY 320 Electromagnetism I 3-3-0
Review of vector calculus. Electrostatics: fields and potentials of point charges, dipoles, and distributed charges; Gauss's theorem; Poisson's and Laplace's equations; dielectrics; capacitance. Current electricity.
Prerequisite: PHY 192, PHY 208; MAT 207
Offered alternate years

PHY 321 Electromagnetism II 3-3-0
Magnetic phenomena, magnetic induction, Ampere's Law, and solenoids. Faraday's Law and the displacement current. Magnetic and dielectric materials. Magnetic and electric fields: Maxwell's equations of the electro-magnetic field; plane electromagnetic radiation in dielectrics and conducting media. Radiation and Antennae.
Prerequisite: PHY 320
Offered alternate years

PHY 335 / ENV 375 Environmental Physics 3-3-0
This quantitative, calculus-based, course discusses fundamental environmental problems within a physical context. Topics covered include: the greenhouse effect, blackbody radiation, the ozone problem, mathematical techniques, heat transfer, electricity, the transport of pollutants, plumes, and basic groundwater hydrology.
Prerequisites: Environmental Science 101; PHY 207.
Note : See Environmental Science 375. Students may not take this course for credit if they have received credit for Environmental Science 375.

PHY 361 Quantum Mechanics I 3-3-0
Topics to be studied include: foundations of quantum mechanics, angular momentum quantization, the Schrodinger equation, central potentials, one-dimensional systems, and the hydrogen atom.
Corequisite: PHY 318, or permission of the instructor.
Offered alternate years

PHY 365 Data Communications 3-3-0
This course will cover how data flows in communications networks. Topics: Hardware, software and basic components of data communications; frequency domain representation, modulation, multiplexing; network configurations.
Prerequisite: CS 211, or permission of the instructor.
Note: See CS 315. Students may not take this course for credit if they have received credit for CS 315.

PHY 371 Mathematical Methods of Physics 3-3-0
Discussion of series solutions in connection with the gamma function and Bessel, Legendre and hypergeometric functions. Laplace transform with applications. Elementary trigonometric Fourier series and boundary value problems. Certain partial differential equations of physics.
Prerequisites: MAT 310 or PHY 270
Note: See MAT 311. Students may not take this course for credit if they have received credit for MAT 311.

PHY 374 Data Mining for Scientists 4-3-3
Data is now created faster than humans are able to understand it and use it. There may be patterns hiding within this data with potentially useful information. This course will teach students, including Biology and Biochemistry students as well as those from Computer Science, how to discover these patterns for the purpose of solving problems, gaining knowledge, and making predictions. Topics covered in this course include data preparation, clustering, classification, association rules for mining and linear regression. This course includes assignments and a final project where the students are required to perform mining on real datasets drawn from the biological and physical sciences.
Prerequisites: PHY 101 (or equivalent)
See CS 305
Students may not take this course for credit if they have received credit for CS 305.

PHY 375 Numerical Methods 3-3-0
A course introducing those numerical methods best suited to a computer. Error analysis, roots of equations, QR-algorithm, interpolation, Numerical approaches to differentiation, integration and solutions of differential equations.
Prerequisites: CS 211. MAT 108, MAT 207
Note: See MAT 325 and CS 375. Students may not take this course for credit if they have received credit for MAT 325 or CS 375.

PHY 376 Calculus of Variations 3-3-0
Euler-Lagrange equations for constrained and unconstrained single and double integral variational problems. Parameter-invariant single integrals. General variational formula. The canonical formalism. Hilbert's independent integral. Hamilton-Jacobi equation and the Caratheodory complete figure. Fields and the Legendre and Weierstrass sufficient conditions.
Prerequisite: Permission of the Instructor
Note: See MAT 405. Students may not take this course for credit if they have received credit for MAT 405.

PHY 378 Scientific Programming 3-3-3
This course is designed as an introduction to programming languages and environments suitable for the numerically intensive applications in the natural sciences and mathematics. Examples will be given to illustrate the use of Fortran in numerical calculations. Other examples will be tackled using the Maple language initially developed to handle problems in symbolic computation.
Prerequisite: CS 404, or permission of the instructor
Note: See CS 408. Students may not take this course for credit if they have received credit for CS 408.

PHY 380ab Experiential Learning in Astronomy 3-3-0
Students will be expected to work in the Observatory as a telescope operator, guide, and/or public speaker. These activities will help fulfill the Observatory's role as a resource for public outreach in the field of science. Students will be expected to become conversant with the essentials of observational astronomy and to develop their ability to articulate the importance of astronomy and science to the general public through oral and/or written communication. Students must seek out an internal supervisor (a full-time faculty member) who will supervise their activities. Assessment of the student will be based on a mark assigned by the supervisor and will reflect the quality of the work carried out by the student. Students must also submit a journal detailing the actual daily work that was accomplished. Projects may be intensive in nature (i.e., 3 weeks during the summer), or may extend over longer durations (i.e., 6-8 hours per week during the semester).
Students may only take one experiential learning course for credit. Permission of the instructor.

PHL 385 Intermediate Physics Lab I 2-0-6
Introduction to data acquisition and analysis of experiments which serve to measure the fundamental constants or properties of nature (e.g., Planck's constant, Boltzmann's constant, speed of light, charge of electron, Landé g-factor). Data will be collected by using a variety of instruments including oscilloscopes, computer interfaces using A/D converters, and other data sensors.
Offered alternate years

PHL 386 Intermediate Physics Lab II 2-0-6
Experiments in quantum physics, non-linear dynamics (chaos), thermodynamics, and low-temperature physics will be carried out. Computer interfaces and nuclear counters will be used to collect and analyze data.
Offered alternate years

PHL 387 Intermediate Physics Lab III 2-0-6
Introduction to data acquisition and the analysis of data related to experiments in electricity and magnetism, electronics, and physical optics. Experiments include the magnetization of various materials, the Hall effect, and advanced spectroscopy. Computer interfaces will be used to collect and analyze data.
Offered alternate years

PHL 388 Intermediate Physics Lab IV 2-0-6
Experiments in electricity and magnetism, electronics, holography, and optical astronomy will be carried out. Students will also be allowed to carry out numerical simulations in any area pertaining to computational physics.
Offered alternate years

PHY 462 Quantum Mechanics II 3-3-0
Matrix mechanics and applications of quantum mechanics to various branches of physics. Perturbation theory, scattering, molecular applications, and Hartree-Fock Theory.
Prerequisite: PHY 361

PHY 463 Nuclear Physics 3-3-0
Nuclear structure and systematics; alpha emission, beta decay, gamma emission, two-body systems and nuclear reactions; neutron physics; sub-nuclear particles.
Prerequisite: PHY 361

PHY 464 Condensed Matter Physics 3-3-0
Topics to be studied include the one-electron theory of solids, energy bands, lattice vibrations, transport theory, and thermodynamic properties.
Prerequisite: PHY 317, or permission of the department.

PHY 465 Electromagnetic Theory 3-3-0
Static and dynamic electric and magnetic fields; Maxwell's equations and solutions involving plane waves. Covariant formulation of electromagnetic field theory.
Prerequisite: PHY 321

PHY 466 Theoretical Topics 3-3-0
Topics to be studied will be selected from the areas of special and general relativity, particle physics, astrophysics and cosmology. In particular, the covariant nature of physics and various physical symmetries will be investigated.
Prerequisites: PHY 317, PHY 318; or the permission of the instructor

PHY 467 Statistical Mechanics 3-3-0
Derivation of the laws of thermodynamics from statistical principles. Quantum statistics, arbitrarily degenerate and relativistic perfect gases, transport theory, thermodynamic fluctuations, and low-temperature physics will also be studied.
Prerequisite: PHY 317

PHY 469 Independent Studies I 3-0-0

PHY 470 Independent Studies II 3-0-0

PHY 474 Relativistic Astrophysics 3-0-0
Topics to be studied include: Cosmology, inflation, dark energy, compact objects, relativistic fluid dynamics, gravitational lensing and gravitational waves.
See PHY 574
Students who take this course for credit may not receive credit for PHY 574.

PHY 475 Numerical Methods and Simulations 3-3-0
This course will cover selected topics in High Performance Computing including cellular automata, finite element methods, molecular dynamics, Monte Carlo methods, and multigrid methods. Applications of the algorithms to the study of classical fields, fluid dynamics, materials properties, nanostructures, and biomolecules will be addressed depending on the interests of the students.
See PHY 575. Students may not take this course for credit if they have received credit for PHY 575.

PHY 476 Stellar Astrophysics 3-3-0
An introduction to the properties of stellar atmospheres and interiors. The equations of stellar evolution, nuclear energy generation, radiative transport and stellar model building will be studied. Further topics include the formation of stars, and the physics associated with supernovae, white dwarfs, neutron stars, pulsars and black holes.

PHY 480 Honours Research Dissertation 6-1-6
Each student is required to carry out either an experimental or theoretical project under the supervision of a faculty member. A plan outlining the proposed research must be submitted for approval during the first four weeks of the course. Each student will present his/her results in the form of a seminar and a written dissertation.
Prerequisite: U3 Honours Physics registration or permission of the department.

PHY 561 Quantum Mechanics I 3-3-0
Foundation of quantum mechanics; Schrodinger equation, angular momentum, central potentials, harmonic oscillator, hydrogen atom.
Students who have received credit for PHY 461 may not enrol in this course.

PHY 562 Quantum Mechanics II 3-3-0
Matrix mechanics and applications of quantum mechanics to various branches of physics. Perturbation theory, scattering, molecular applications, and Hartree-Fock Theory.
Students who have received credit for PHY 462 may not enrol in this course.

PHY 564 Condensed Matter Physics 3-3-0
Topics to be studied include the one-electron theory of solids, energy bands, lattice vibrations, transport theory, and thermodynamic properties.
Students who have received credit for PHY 464 may not enrol in this course.

PHY 565 Electromagnetic Theory 3-3-0
Static and dynamic electric and magnetic fields: Maxwell's equations and solutions involving plane waves. Covariant formulation of electromagnetic field theory.
Students who have received credit for PHY 475 may not enrol in this course.

PHY 566 Theoretical Topics 3-3-0
Topics to be studied will be selected from the areas of special and general relativity, particle physics, astrophysics and cosmology. In particular, the covariant nature of physics and various physical symmetries will be investigated.

PHY 567 Statistical Mechanics 3-3-0
Derivation of the laws of thermodynamics from statistical principles. Quantum statistics, arbitrarily degenerate and relativistic perfect gases, transport theory, thermodynamic fluctuations, and low-temperature physics will also be studied.
Students who have received credit for PHY 467 may not enrol in this course.

PHY 571 Advanced Quantum Theory 3-3-0
Topics to be studied include: Path integral and second quantization approaches to non-relativistic quantum mechanics. Feynman rules and diagrams. Relativistic quantum field of spin-zero particles.

PHY 572 Particle Physics 3-3-0
Quantum field theory of spin 1⁄2 and spin 1 particles will be introduced. Topics include: renormalization and the renormalization group; quantum electrodynamics and quantum chromodynamics; the Standard Model of particle physics; overview of string theory.

PHY 573 Advanced General Relativity 3-3-0
Topics to be studied include: differential geometry, Einstein equations, junction conditions, shell and dust collapse, gravitational waves and black hole thermodynamics.

PHY 574 Relativistic Astrophysics 3-3-0
Topics to be studied include: Cosmology, inflation, dark energy, compact objects, relativistic fluid dynamics, gravitational lensing, and gravitational waves.

PHY 575 Numerical Methods & Simulations 3-3-0
This course will cover selected topics in High Performance Computing including cellular automata, finite element methods, molecular dynamics, Monte Carlo methods, and multigrid methods, with applications to classical fields, fluid dynamics, materials properties, nanostructures, and biomolecules.

PHY 576 Stellar Astrophysics I 3-3-0
An introduction to the properties of stellar atmospheres and interiors. The equations of stellar evolution, nuclear energy generation, radiative transport and stellar model building will be studied. Further topics include the formation of starts, and the physics associated with supernovae, white dwarfs, neutron stars, and pulsars.

PHY 577 Many-Body Quantum Theory in Condensed Matter Systems 3-3-0
The following topics will be studied: Green's functions at zero and finite temperature; the interacting electron gas; the Hubbard model and strongly correlated systems; electron-phonon interaction; superconductivity and superfluidity.

PHY 578 Selected Topics in Astronomy & Astrophysics 3-3-0
Topics to be determined in consultation with prospective students.

PHY 579 Selected Theoretical Topics 3-3-0
Topics to be determined in consultation with prospective students.

PHY 580f Graduate Seminar I 9-0-0
Students are expected to participate in the departmental seminar series and to make a presentation on either their own work or on a research-related topic. All M.Sc. Students are normally expected to enrol in this course at the beginning of their first year of studies.
Offered alternate years with PHY 581.

PHY 581f Graduate Seminar II 9-0-0
Students in the second year of their degree program are expected to participate in the departmental seminar series and to make a presentation on either their own work or on a research-related topic.
Offered alternate years with PHY 580.

PHY 586 Stellar Astrophysics II 3-3-0
A detailed study of the physics that determines the evolution of stars during all of their possible phases. This includes radiative hydrodynamics and atmospheric modeling, specialized equations of state, and the nuclear physics needed to understand the various channels that lead to the creation of the heavy elements. The physics of neutrino production and detection will also be investigated. These topics will form the basis for a study of the evolution of supernovae and other high-energy phenomena in stellar astrophysics.

PHY 600ab Thesis Research Dissertation 15-0-0
Each student is required to carry out independent, publishable research that is presented in the form of a thesis. The research is conducted under the supervision of a faculty member. The thesis will be evaluated externally and must be successfully defended in a meeting for which the presentation of the thesis results is open to all members of the academic community.

Pre-Medicine Double Major (B.Sc.)

The pre-medicine double major allows students to complete all the necessary pre-requisites to apply to medical schools while at the same time pursuing a liberal arts education. The required and optional courses listed below correspond to the entrance requirements of Canadian and most American medical schools, but also address the requirements of most related professional schools (such as dentistry or physiotherapy). Students must register in a separate, primary major as well as the pre-medicine major and complete all of the requirements of both majors in order to graduate. Students can select their primary major from any discipline offered at Bishop's, including Biology, Biochemistry, Chemistry, Business, Liberal Arts, or Psychology. Courses can be double-counted towards both the primary major and the Pre-Medicine major.

Entrance Requirements, B.Sc.

Please see page 9 for information regarding admission into any B.Sc. program.

Students must already be admitted to their primary major at Bishop's. Students must meet two criteria to be considered for entry into the B.Sc. Premedicine double major:

- 60 completed course credits (not including lab credits), including advanced credits
- An overall average of 75%

Quebec students with a completed D.E.C. will be granted credit for Year 1 courses (30 credits) if they successfully completed collegial courses in Chemistry (General Chemistry, Solutions Chemisty), Physics (Mechanics, Electricity and Magnetism), Mathematics (Differential Calculus, Integral Calculus) and Biology (General Biology, Cell and Molecular Biology). Students lacking any of these courses can take their equivalents at Bishop's, and their advanced credits will be reduced accordingly.

Non-Quebec students will be admitted on the basis of their Grade 12 (or equivalent) marks. Students should have completed Grade 12 courses in Chemistry, Physics, Mathematics, and Biology, but exceptions will be considered.

Program Requirements

1. B.Sc. Y1 Year *(30 credits; non-Quebec students)*

BIO 196	Introductory Cellular and Molecular Biology
BIO 197	Evolution of Life
CHM 191	General Chemistry I
CHM 192	General Chemistry II
PHY 193	Physics for the Life Sciences I
PHY 194	Physics for the Life Sciences II
MAT 198	Calculus I for Life Sciences
MAT 199	Calculus II for Life Sciences
ELA 116	Effective Writing (or other ENG)

HUM (CLA, ENG, HIS, REL, PHI or Lib. Arts)

2. Pre-Medicine Required Courses: *(27 Credits)*

The following courses must be taken in order to meet the requirements of the major.

CHM 111	Organic Chemistry I
CHM 211	Organic Chemistry II
BCH 210	General Biochemistry
BCH 313	Metabolism
PHY 101	Statistical Methods in Experimental Science
PSY 101	Introduction to Psychology
BIO 201	Cell and Molecular Biology
BIO 336	Animal Physiology I
BIO 337	Animal Physiology II

3. Pre-Medicine Required Options: *(15 Credits)*

At least 2 Second Language Courses.
At least 2 Courses in English Literature
At least 1 Course from the Social Sciences.

4. Free Electives: *(48 Credits)*

These credits can be used to fulfill the requirements of the primary major.

Useful Electives

These courses are not required for the Pre-Medicine Major, but will deepen your background in biomedical topics and may enhance your success in writing the MCAT, preparing your application essay, and/or performing well in the interview.

BIO 233	Human Anatomy
BIO 208	Genetics
BIO 212	Evolution
CHM 121	Structure and Bonding
CHM 131	Physical Chemistry I
CHM 141	Analytical Chemistry
CHM 311	Organic Chemistry III
PBI 275	Health Psychology 1
PBI 276	Health Psychology 2

Division of Social Sciences

The Division of Social Sciences offers a wide array of courses and programs in the areas of Economics, Environmental Studies and Geography, Politics and International Studies, Psychology, Sociology and Sports Studies.

Degrees and Programs

Detailed descriptions of the degrees and programs offered are found under the respective Departmental sections of this calendar. The Division of Social Sciences offers a wide range of Major programs leading to a Bachelor of Arts (B.A) degree, and the Department of Psychology also offers a Bachelor of Science (B.Sc.) degree in Neuroscience. In addition, the Departments offer Honours programs directed towards students that wish to attain higher levels of specialization in their discipline and that intend to pursue graduate studies. In addition, several departments offer Minor programs that can be added to one's Honours/Major program and some departments offer certificate programs.

Divisional Major

The Division offers an entry level program for a limited number of students, allowing them to register as Divisional Majors (rather than into a specific program) for a maximum of two semesters. After two semesters of full-time study are completed, students must enroll into a specific program (Major). Students who are not accepted into one of the regular programs must consult with the Dean of Arts and Science to determine an academic plan.

Arts & Science Requirement

In order to encourage students enrolled in the Division of Social Sciences to broaden the scope of their education, all majors and honours are required to complete at least three credits in the Division of Natural Sciences & Mathematics. While this requirement will not in itself ensure against excessive specialization, it is hoped that it will lead students to find and pursue various areas of interest. Students with program combinations which require more than 72 credits are exempt from this requirement.

Transfers from Other Programs

Students may normally transfer into a program in the Division of Social Sciences or between programs within the Division provided they have a minimum cumulative average of 65% on at least 24 course credits completed at Bishop's, or, provided they have demonstrated an aptitude for the program by achieving an average of 65% in all program courses attempted (minimum of 12 credits). For the purpose of these regulations, the cumulative average and course averages used will be those existing at the time the program change request is made.

Graduation "with Distinction"

The notation "with Distinction" will appear on the transcript of students who graduate with a cumulative average of 80% or more. It is only available for first degree student

Divisional Courses

ILT 104 Information Retrieval and Evaluation Skills for the Social Sciences (Lab) 1-0-
(Not mandatory unless indicated)

The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments, including the correct use of library resources, such as the online catalogue, periodical indexes, and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet, and the critical evaluation of retrieved resources. Academic integrity, plagiarism, and the correct citation of print and online sources are also covered. Taught in conjunction with a research-based course, the specific resources relevant to research in the Social Sciences are introduced, and the students retrieve the material necessary to complete the essays for their particular course. The course is taught in the library's electronic classroom, and each week the students are given the opportunity for practical experience.

INT 300 International Development Assistance Internship 3-0-0

Students must secure the approval of a Department and of a faculty member in that Department to supervise an AUCC/Canada Corps Internship, a Champlain Regional College-Bishop's University Mai-Sot Internship, a Champlain Regional College Peru Internship or any other international internship sponsored by an NGO or accredited institution that is recognized by a Selection Committee chaired by the Vice-Principal. Application for selection and funding must be addressed to the Vice-Principal's Office normally by December 1. The number of internships is subject to acceptance by sponsoring agencies and availability of funding.
Prerequisite: Final-year students only or permission of the Selection Committee.

Economics

Studying Economics provides students with valuable skills that will serve them well in many careers. A BA degree in Economics allows graduates to pursue varied careers in areas such as economic forecasting, economic policy analysis, financial markets and institutions, and public policy. The undergraduate degree in economics also provides a basis for entry into graduate work in Economics, Finance, Business Administration, Law, Political Science, and Public Administration.

Economics is concerned with the fundamental principle upon which human activity revolves — our wants are unlimited while the resources available for their satisfaction are not. Any economic system must determine what is to be produced from these limited resources, and how the resulting output is to be distributed amongst its population. The human organization and economic machinery necessary for the resolution of this problem is a very complex matter, especially in a highly decentralized decision-making society such as our own private enterprise economy. The objectives of the discipline of economics are to explain how an economy works, how well it is performing, and how it may perform better. It may be noted here that economics is the only discipline within the Social Sciences where a Nobel Prize is awarded.

In addressing these concerns economics uses its own particular approach or manner of thinking. The goal of the Department of Economics is to develop in the student the capacity to "think like an economist". To achieve this objective requires that our students become familiar with disciplined economic reasoning and therefore familiar with the analytical tools of economic science. The process involves the development of both problem-solving and creative skills. These attributes, in turn, increase the understand-

ing of present day economic phenomena as well as promoting effective predictions of the consequences of changes in our evolving world. The student is prepared for the present and forearmed for the future.

The breadth of programs available allows students to tailor their studies in line with their objectives. Choices may be made from the outline below in honours, major, minor, and joint programs such as Political Economy.

REGULATIONS APPLYING TO ALL PROGRAMS IN ECONOMICS

1. Admission

Rules and regulations for admission into degree programs in Economics are detailed in the section of this Calendar entitled "Admission and Registration" with the following additional specification:

a) Mathematics

(i) MAT 196 and MAT 197 (or their equivalent) are required courses for all Economics programs except the Minor and B.A. (Major in International Political Economy).*

(ii) MAT 191 or MAT 192 (or their equivalent) are required courses for B.A. (Honours Economics).

A student having a Québec Collegial Diploma (D.E.C.) including Mathematics 201-NYC (201-105) and Mathematics 201-NYA (201-103) may be exempted from MAT 196 and MAT 197. OAC Calculus, with 70%, is equivalent to MAT 197. Students granted exemption must substitute these courses with free elective courses. Students lacking the appropriate preparation for MAT 191 or MAT 197 will be required to take an additional credit course MAT 190.

*Note that MAT 196 and MAT 197 are prerequisites for ECO 208 and ECO 212

b) Statistics

Students are also required to have completed a course in Introductory Statistics, equivalent to BMA 140 as a prerequisite for all Economics programs. Students who are required to take BMA 140 will use this course as a free elective.

2. Transfers from Other Bishop's Programs

To be eligible to transfer into any Major or Honours program in Economics, including joint programs with Political Studies, from a non-Economics program, a student normally must have successfully completed at least 30 credits at Bishop's, and have achieved a minimum cumulative average of 65% based on all courses attempted, or an average of 65% in all Economics courses attempted (minimum of 12 credits).

3. Double Failure Rule

Any student who twice receives a failing grade in a course offered by the Department of Economics will not be permitted to repeat the course again. If this is an economics course that is required in order to graduate from a degree program offered by the Department of Economics (Economics Honours, Economics Major, Economics Minor), the student will not be eligible to graduate with that degree. This regulation applies to students in non-Business programs where a business course is required to complete their degree. This implies that having twice received a failing grade in the same economics course at Bishop's precludes a student from receiving transfer credits for the same course. Please see Double Failure regulation in the Business section of this calendar.

PROGRAMS IN ECONOMICS

I. B.A. (Honours Economics)

The Honours B.A. program in Economics consists of 90 credits + ILT104 (1 lab credit). In order to register in the Honours program students must have completed at least 12 credits in ECO, BMA or EMA (Quantitative Methods) courses. In order to graduate with an Honours B.A. degree in Economics, students must maintain an average of at least 70% in all ECO and EMA courses. Requirements of the program are:

Quantitative Methods	9 credits
Mathematics	6 credits
Required courses in Economics	30 credits
Elective courses in Economics**	21 credits
Free Electives*	24 credits
Total	**90 credits + ILT104 (1 lab credit)**

** For students in higher-credit programs, the number of credits in this category are adjusted accordingly. At least 12 credits in this category must be earned outside of the Department of Economics.*

*** Up to 9 of the total required credits in this category can be met, with departmental approval, by a selection of courses in cognate areas.*

**** For students in higher-credit programs, the number of credits in this category are adjusted accordingly. At least 12 credits in this category must be earned outside of the Department of Economics.*

Information Retrieval

ILT 104	-Information Retrieval and Evaluation Skills for the Social Sciences*

Quantitative Methods

BMA141	Statistical Analysis for Business Decisions II
EMA 261	Econometrics I
EMA 361	Econometrics II

Mathematics

MAT 191	Enriched Calculus I
MAT 192	Enriched Calculus II
OR	
MAT 197	Calculus for Business and Economics
EMA 262	Mathematical Economics I

Required courses in Economics

ECO 102	Principles of Economics: Microeconomics
ECO 103	Principles of Economics: Macroeconomics
ECO 208	Intermediate Microeconomics I
ECO 209	Intermediate Microeconomics II
ECO 212	Intermediate Macroeconomics I
ECO 213	Intermediate Macroeconomics II
ECO 342	Advanced Macroeconomics
ECO 343	Advanced Microeconomics

ECO 365 Honours Seminar
ECO 370 Honours Thesis

For those Economics Honours students who intend to proceed to graduate school, the following additional courses in Mathematics are strongly recommended:

MAT 206 Advanced Calculus I
MAT 207 Advanced Calculus II
MAT108 Matrix Algebra
MAT 209 Linear Algebra
MAT 313 Introduction to Probability
MAT 314 Introduction to Mathematical Statistics

As well, it is strongly recommended that these students take additional courses in Mathematics as electives. Students should also consider a Minor in Mathematics.

II. B.A. (Major Economics)

The Major B.A. program in Economics consists of 90 credits + ILT 104 (1 lab credit). Requirements of the program are:

Mathematics and Quantitative Methods .....12 credits
Required courses in Economics .....15 credits
Elective courses in Economics* .....18 credits
Free Electives** .....45 credits
Total ..... 90 credits + ILT 104 (1 lab credit)

**Up to 6 of the total required credits in this category can be met, with departmental approval, by a selection of courses in cognate areas.*

***For students in higher-credit programs, the number of credits in this category are adjusted accordingly. At least 15 credits in this category must be earned outside of the Department of Economics.*

**** For students in higher-credit programs, the number of credits in this category are adjusted accordingly. At least 15 credits in this category must be earned outside of the Department of Economics.*

Information Retrieval

ILT 104 -Information Retrieval and Evaluation Skills for the Social Sciences

Mathematics and Quantitative Methods (12 credits)

MAT 196 Linear Algebra for Business Students
MAT 197 Calculus for Business and Economics
OR
MAT 191 Enriched Calculus I
BMA 141 Statistical Analysis for Business Decisions II
EMA 261 Econometrics I

Required Courses in Economics (15 credits)

ECO 102 Principles of Economics: Microeconomics
ECO 103 Principles of Economics: Macroeconomics
ECO 208 Intermediate Microeconomics I
ECO 212 Intermediate Macroeconomics I
ECO 361 Applied Economic Analysis

CONCENTRATIONS IN ECONOMICS

Students wishing to develop expertise in specific areas of Economics can elect to follow a concentration according to the following:

Concentration in Business Economics

Any six of the following:

ECO 200 Money and Banking
ECO 204 Labour Economics
ECO 205 Industrial Organization
ECO 217 International Economics
ECO 270 Public Economics
ECO 305 Game Theory
ECO 308 Managerial Economics

With departmental approval, students can satisfy up to 6 of the 18-credit requirement from courses in Business

Concentration in Public Policy

Any six of the following

ECO 126 Economics of Crime and Criminal Justice
ECO 204 Labour Economics
ECO 217 International Economics
ECO 237 Economics of the Environment
ECO 270 Public Economics
ECO 336 Contemporary Economic Issues
ECO 337 Ecological Economics

With departmental approval, students can satisfy up to 6 of the 18-credit requirement from courses in other disciplines

Concentration in Global Economy

Any six of the following:

ECO 175 Economic Geography
ECO 217 International Economics
ECO 220 Economic Development I
ECO 320 Economic Development II
ECO 237 Economics of the Environment
ECO 280 Contemporary Perspectives in Political Economy
ECO 337 Ecological Economics

With departmental approval, students can satisfy up to 6 of the 18-credit requirement from courses in other disciplines

III. Minor in Economics

A minor in Economics consists of any 24 credits* in Economics including ECO 102 and ECO 103, plus ILT 104 or its equivalent. Students considering a minor in Economics should consult the Chairperson of the Department. If Economics is required as a Cognate in another program, economics courses so taken will also be counted towards the minor. The course BMA 141: Statistical Analysis for Business Decisions II can be included within the required 24 credits.

**Up to 3 of the total required credits in this category can be met, with departmental approval, by a selection of courses in cognate areas such as Business Administration, Mathematics, Computer Science, and Political Studies.*

JOINT PROGRAMS

Numerous possibilities exist for joint programs that allow you to tailor your studies in line with your objectives. Popular joint programs are a double-major program in Mathematics and Economics, BBA and Major in Economics, and International Political Economy.

I. Bachelor of Arts (Major and Honours) in International Political Economy

These programs are offered jointly by the Departments of Economics and Politics and International Studies. As an area of academic inquiry, International Political Economy examines the relations between modes of production and distribution in the private and public spheres. Note that, in light of the impacts of globalization pressures on the political economies of the state, these programs have a decidedly international focus.

The B.A. Major Program in International Political Economy consists of at least 48 credits, with 24 credits drawn from Politics and International Studies and 24 from Economics. The Honours program in International Political Economy consists of at least 60 credits, with 30 credits drawn from Politics and International Studies and 30 from Economics.

To enter or continue in an Honours program, students must normally obtain and sustain a cumulative average of 75 % in the Politics and International Studies and Economics courses. Honours students who do not fulfill the above requirements will automatically revert to the Major program. To be awarded Honours at graduation, students must be registered in the Honours program at Bishop's during their last thirty (30) credits of study. Honours standing at graduation will be determined by the students overall record in the Honours program.

(1) Major in International Political Economy (48 credits)

ECONOMICS REQUIREMENTS (24 CREDITS)

Required Courses in Economics (9 credits):

ECO 102 Principles of Economics: Microeconomics
ECO 103 Principles of Economics: Macroeconomics

One of the following courses:

ECO 175 Economic Geography
ECO 217 International Economics
ECO 220 Economic Development I
ECO 251 History of Economic Thought I
ECO 270 Public Economics
ECO 280 Contemporary Perspectives in Political Economy

Elective Courses in Economics (15 credits):

The remaining 15 credits to be taken from any area of Economics

POLITICS AND INTERNATIONAL STUDIES REQUIREMENTS (24 CREDITS)

Required Courses:

POL 101 Introduction to Modern Governments
POL 140 International Relations
POL 240 International Political Economy

Plus two of:

POL 235 American Political Economy
POL 241 International Affairs
POL 242 International Organizations
POL 317 Globalization and the Canadian State
POL 329 Classical Political Philosophy II
POL 344 Politics of International Trade and Investment
POL 346 Politics of Global Finance

Plus Free Elective Courses in Politics and International Studies:

9 credits

Note that some of these courses may have prerequisites or, alternatively, require permission from the instructor.

(2) Honours in International Political Economy (60 credits)

ECONOMICS REQUIREMENTS (30 CREDITS)

Required Courses in Economics (15 credits):

ECO 102 Principles of Economics: Microeconomics
ECO 103 Principles of Economics: Macroeconomics
ECO 212 Intermediate Macroeconomics I
ECO 270 Public Economics

One of the following courses:

ECO 175 Economic Geography
ECO 217 International Economics
ECO 220 Economic Development I
ECO 251 History of Economic Thought I
ECO 280 Contemporary Perspectives in Political Economy

Elective Courses in Economics (15 credits):

The remaining 15 credits to be taken from any area of Economics

POLITICS AND INTERNATIONAL STUDIES REQUIREMENTS (30 CREDITS)

Required Courses:

POL 101 Introduction to Modern Governments
POL 140 International Relations
POL 240 International Political Economy
POL 261 Techniques of Empirical Research

Plus two of:

POL 241 International Affairs
POL 242 International Organizations
POL 317 Globalization and the Canadian State
POL 329 Classical Political Philosophy II
POL 235 American Political Economy
POL 344 Politics of International Trade and Investment
POL 346 Politics of Global Finance

Plus:
One POL 400 level-course

Plus Free Elective Courses in Politics and International Studies:
9 credits

Note that some of these courses may have prerequisites or, alternatively, require permission from the instructor.

Additional note: To enter and remain in the Honours program, students must normally attain a cumulative average of 75% in program courses.

Any additional course can count as one of the electives.

ECONOMICS COURSES

ECO 102ab Principles of Economics: Microeconomics 3-3-0
A general introduction to the study of Economics and the nature of economic problems. Of primary concern is the behaviour of individual consumers and firms in particular markets, and the results of their actions as they appear in production, sales, costs, prices, wages, interest and profits.

ECO 103ab Principles of Economics: Macroeconomics 3-3-0
A general introduction to the study of Economics and the nature of economic problems. The course is largely concerned with the determinants of the level of national income, employment and the accompanying stabilization problems — all in a Canadian context.

ECO 109ab Introduction to Economic Policy 3-3-0
Economics is studied for its policy implications. This course will take the basic micro and macroeconomic models from ECO102 and ECO103 and elaborate on them, examining problems, policies, institutions, and controversies in public policy regarding the economy in Canada from both an analytical and a historical perspective.
Prerequisites: ECO 102, ECO 103

ECO 115ab The Making of Economic Society 3-3-0
A non-technical introduction to the history of the development of the modern market economy, from its beginnings in Medieval Europe up to the Twenty-first Century. An exploration of the economic events, resources, institutions, ideas and technologies that have shaped the evolution of Western civilization and led to the westernization of the global economy.
Note: Not open to students with credit in ECO 122.

ECO 118a Canadian Economic Development I 3-3-0
A study of historical factors which have determined Canada's present economic structure, from the first penetration of European civilization into what is now the territory of Canada, to the dawn of the 20th century. Topics include the staple export industries (e.g. fur, fish, lumber, wheat, minerals, newsprint, energy), agriculture, changes in technology, state administration and policy, foreign investment.
Prerequisites: none. Not open to students with credit in ECO 120.

ECO 119b Canadian Economic Development II 3-3-0
A study of historical factors of the 20th century which have shaped the development of the modern Canadian economy including staple industries, agriculture, energy, crown corporations and other financial and political institutions, federal-provincial relations, regionalism, industrial organization, technical change, foreign investment and transnational firms, international trade, and globalization.
Prerequisites: none. Not open to students with credit in Eco 120.

ECO 126ab Economics of Crime and Criminal Justice 3-3-0
This course discusses the economic elements underlying the behaviour of criminals, victims, and law enforcement agencies. Major topics covered include the supply of crime by criminals, the demand for crime prevention by victims, and public policy issues like crime control, and the allocation of criminal justice resources.

ECO 131 A History of Major Economic Events: 1750 to the present 3-3-0
This course is a non-technical introduction to some of the basic concepts of economics through an historical review of the most important economic events of the last two hundred years. A variety of topics are discussed from the Industrial Revolution in Great Britain, the Great Depression, the construction of Europe, to the most recent Financial Crises that led to the Great Recession. Special attention is given to the parallels that can be drawn from past economic events with current ones.

ECO 175ab Economic Geography 3-3-0
The production of, and trade in, goods and services vary by city, region, and country. In recent years, these spatial variations have widened in some cases, and narrowed in others. But common to all are the drivers-of-change. These include major geo-political events, the adoption of innovative cost-saving practices, and the creation and evolution of entrepreneurial networks and industrial clusters. This course will explore the key elements of these dynamics, and explore the ongoing debate about the appropriate role of government in an increasingly-globalized world.
This course is cross-listed with ESG 175.

ECO 200ab Money and Banking 3-3-0
Nature and functions of money and credit, financial institutions, commercial and central banking in the Canadian economy. Aims, instruments, and effectiveness of monetary policy.
Prerequisite: ECO 103

ECO 204ab Labour Economics 3-3-0
An analysis of the demand for and the supply of labor, wage differentials, and wage structures, as well as an analysis of the effects of unions, and the rationale for current supply-side or passive employment policies in Canada and other OECD countries.
Prerequisites: ECO 102, ECO 103

ECO 205ab Industrial Organization 3-3-0
An analysis of the behavior of firms in the market place. The conduct and performance of firms based on the efficiency and profitability criteria. Behavior of firms facing different market structures in terms of their pricing strategies, quantity decision, and product choice under a strategic environment are analyzed using examples of the structure of certain industries. The policy/regulatory environment faced by firms in the global market, the impact of Canadian public policy on industry structure and firm performance are also discussed.
Prerequisites: ECO 102

ECO 206ab Agricultural Economics 3-3-0
Application of microeconomics principles to the problems of agricultural production and resource use, agricultural supply and demand analysis, price determination, market structure and income distribution in competitive and imperfectly competitive markets.
Prerequisites: ECO 102, ECO 103

ECO 208a Intermediate Microeconomics I 3-3-0
Consumer theory, production and cost theory, output and price determination by market structures, introduction to game theory, general equilibrium analysis, choice under uncertainty and imperfect information.
Prerequisites: ECO 102, and MAT 197 or equivalent.

ECO 209b Intermediate Microeconomics II 3-3-0
Consumer Theory, Decision Theory under Risk and Uncertainty, Information, and Microeconomic applications.
Prerequisites ECO 208

ECO 210ab Economics and the Law 3-3-0
An introduction to the application of economic principles and methodology to a variety of legal problems with particular emphasis on the theory of property rights and the allocation of resources. Problems under imperfect information, such as the principal-agent problem, the "market for lemons," job market signaling and screening, are also discussed.
Prerequisite: ECO 102

ECO 212b Intermediate Macroeconomics I 3-3-0
This course examines business cycles, monetary and fiscal stabilization policies, unemployment and labour market frictions, inflation, exchange rate determination, exchange rate systems, and introduction to economic growth.
Prerequisites: ECO 103

ECO 213a Intermediate Macroeconomics II 3-3-0
An examination of economic growth, the microeconomic foundations of the basic aggregate demand and aggregate supply model, and various issues in macroeconomic policy. Topics to be covered include economic growth, consumption, investment, money demand and supply, the labour market, and fiscal, monetary, and exchange rate policies.
Prerequisites: ECO 212

ECO 217ab International Economics 3-3-0
The course provides an introduction to international economics. The first half of the course examines trade theory and policy, including the Classical and modern theories of international trade, policies restricting trade, and international trade liberalization. The second half of the course examines international monetary economics, including foreign exchange markets, exchange rate determination, and open-economy macroeconomic policy.
Prerequisites: ECO 102 and ECO 103

ECO 220ab Economic Development I 3-3-0
An introduction to the concept of economic development and models of economic growth. An analysis of domestic problems facing developing countries: poverty and inequality, population growth, education, rural development, unemployment, the environment, and the reform of financial systems.
Note: Not open to students who have taken ECO 330 and/or ECO 331
Prerequisites: ECO 102, ECO 103

ECO 222 Real Estate Economics 3-3-0
This course provides students with an understanding of two essential components to real estate analysis. First, it introduces the techniques of investment and statistical analysis in a real estate valuation context. Topics here include: cash flow analysis, discounting, and compounding. Second, it looks at the economics behind real estate price fluctuations. Topics here include: factors affecting the demand for real estate, and the relationship between land use, land value, and location.
Prerequisite: ECO 102

ECO 237ab Economics of the Environment 3-3-0
Application of concepts and methods of economic analysis to environmental problems. Pros and cons of selected policies for environmental protection. Economic growth and environmental decay. Private vs social costs of environmental decay.
Prerequisites: ECO 102, ECO 103
Cross-listed with ENV 337

ECO 251a History of Economic Thought I 3-3-0
An introductory analysis of the methodological foundations of the more prominent schools of thought within mainstream Economics. This is a seminar course, and students are required to prepare one or more essays.
Prerequisite: ECO 102, ECO 103
Offered in rotation with ECO 280

ECO 260ab Topics of Applied Economics 3-3-0
Content of this course varies year by year. The topics are determined by the instructor of the course. A writing component is emphasized in this course.
Prerequisite: ECO 102, ECO 103

ECO 270ab Public Economics 3-3-0
This course examines key policy issues related to government expenditure and taxation. Topics covered include the rationale for government provision of goods in a market economy, public choice, fiscal federalism, cost-benefit analysis, and an analysis of tax incidence and efficiency.
Prerequisites: ECO 102

ECO 280ab Contemporary Perspectives in Political Economy 3-3-0
This course develops core contemporary perspectives in political economy within an international context. This course is neither a course in political science nor a course in economics, but rather a course that stresses the interaction of the two disciplines.
Prerequisites: ECO 102 and ECO 103
Offered in rotation with ECO 251

ECO 305ab Game Theory with Applications to Economics 3-3-0
Game Theory studies the causes and consequences of the actions of decision-makers who are aware that their choices affect each other. The theory includes: non-cooperative games, cooperation and reputation, and dynamic games. Applications include: bargaining, auctions, industrial organization, asymmetric information, and social choice theory (the economics of democratic institutions).
Prerequisites ECO 208

ECO 308ab Managerial Economics 3-3-0
An introduction to the principal topics in managerial economics. These include decision-making under uncertainty, demand analysis and estimation, cost analysis and estimation, and pricing theory and practices.
Prerequisites: ECO 208, EMA 141

ECO 310 Economics Internship 3-0-0
The Economics Internship provides an opportunity for a continuing student to gain valuable experience working alongside professional economists. The internship is subject to acceptance and supervision by the Department of Economics and by the participating institution. The participating institution can be located outside of the Lennoxville/Sherbrooke community, and thus may require the student to reside in another city. The internship takes place over some or all of the summer months.

ECO 320ab Economic Development II 3-3-0
An analysis of international issues facing developing countries: international trade and trade policy, foreign investment and foreign aid, the balance of payments, and third world debt. The techniques of evaluating development projects.
Note: Not open to students who have taken ECO 330 and/or ECO 331
Prerequisites: ECO 208, ECO 212

ECO 336ab Contemporary Economic Issues 3-3-0
Application of tools of economic analysis to selected issues and problems in Canada.
Prerequisites: ECO 102 and ECO 103

ECO 337ab Ecological Economics 3-3-0
This course explores the principles underlying a truly sustainable ecological economy in a "full world". Topics such as sustainability, the nature of work, quality in production and consumption, ecological cost, peak oil, inequality, the scale and distribution of economic activity, and the purpose of economic activity and economic development are entertained. Seminar course in which student presentations feature prominently. Intended for students who have completed at least 45 credits at the university, including at least 12 in economics.
Prerequisites: ECO 102 and ECO 103
Cross-listed with ENV 437

ECO 342ab Advanced Macroeconomics 3-3-0
Selected topics in theoretical and applied macroeconomics, including growth theory, real business cycles, new Keynesian models of fluctuations, consumption, investment, unemployment, monetary policy, and fiscal policy. Tutorial.
Prerequisites: ECO 213, EMA 261 (EMA 261 can be taken concurrently)

ECO 343ab Advanced Microeconomics 3-3-0
A selection of core topics from Microeconomics, including unconstrained and constrained optimization, direct and indirect utility functions, duality in consumption and production, the expenditure function, ordinary and compensated demand functions, the Slutsky equation, the Envelope Theorem, Roy's Identity, Hotelling's Lemma, and the Expected Utility Hypothesis.
Prerequisite: ECO 209, EMA 261 (EMA 261 can be taken concurrently)

ECO 344 Independent Study 3-0-0
Individual study and research under the guidance of an advisor.
Prerequisites: Permission of the Department and instructor. ECO 208, ECO 212

ECO 345 Independent Study 3-0-0
Individual study and research under the guidance of an advisor.
Prerequisites: Permission of the Department and instructor. ECO 208, ECO 212

ECO 351b History of Economic Thought II 3-3-0
An advanced analysis of the methodological foundations of the more prominent schools of thought within mainstream Economics. This is a seminar course, and students are required to prepare one or more essays.
Prerequisite: ECO 102 and ECO 103, and ECO 251

ECO 361 Applied Economic Analysis 3-3-0
The purpose of this course is to provide students with a basic understanding of conducting applied economic analysis. It builds upon the student's knowledge of basic econometrics and allows him/her to use this knowledge to analyze real-world data and undertake original empirical analyses. Written and oral dissemination of results is also emphasized as important skills.
Prerequisite: EMA261, ECO 208, ECO 212
Note: Not open to students who have taken ECO 340

ECO 365a Honours Seminar 3-3-0
The purpose of this course is to prepare the student for advanced economic research leading up to original empirical and/or theoretical research undertaken by the student for his/her honours thesis and for research undertaken at the graduate level and beyond. Areas covered include: selection of a research topic, literature survey, theoretical and empirical analyses including model building, formulation of a research question and hypothesis, and testing hypotheses.
Prerequisite: ECO 209, ECO 213, EMA 261

ECO 370ab Honours Thesis 3-0-0
Continuation of ECO 360. Under the supervision of a faculty member of the Department of Economics, the student in the final year of his Honours program will complete the research agenda developed in ECO 360. The student will present the research results in a seminar to be scheduled in the last two weeks of class.
Prerequisite: ECO 365

Mathematics

BMA 140ab Statistical Analysis for Business Decisions I 3-3-0
Data summarization: frequency distributions, measures of central tendency and variability; probability; introduction to statistical decision analysis; discrete probability distributions: binomial, Poisson probability distributions; continuous probability distributions: normal, uniform and exponential probability distributions.
Prerequisite: MAT 196ab
This course is not open to students with credit for EMA 140

BMA 141ab Statistical Analysis for Business Decisions II 3-3-0
Topics include: Sampling methods and sampling distributions; statistical inference; estimation and hypothesis testing; simple linear regression and correlation; multiple and curvilinear regression; chi-square tests for independence and goodness-of-fit; introduction to analysis of variance; nonparametric tests.
Prerequisite: BMA 140 or equivalent, or MAT 197
Note: this course may not be taken for credit by Science students.

EMA 261ab Econometrics I 3-3-0
An introduction to econometrics. Topics include the classical assumptions, ordinary and generalized least squares estimation, hypothesis testing, the statistical implications of violating of the classical assumptions, common remedial measures, and the distributed lag and autoregressive models.
Prerequisite: ECO 102, ECO 103, BMA 141, EMA 141 or equivalent

EMA 262ab Mathematical Economics I 3-3-0
The application of matrix algebra and multivariate calculus to model-building and problem-solving in Economics.
Prerequisites: ECO 102, ECO 103, MAT 196, MAT 192
Cross-listed with MAT 172

EMA 361ab Econometrics II 3-3-0
Ordinary and generalized least squares estimation, and hypothesis testing, using matrix algebra. Additional topics include simultaneous-equation estimation, the identification problem, two-stage least squares estimation, a stationary series, the unit-root test, spurious regression, the Granger causality test, cointegration, and the error-correction model.
Prerequisites: EMA 261, ECO 208, ECO 212

EMA 362ab Mathematical Economics II 3-3-0
The application of differential and difference equations, and mathematical programming, to model-building and problem-solving in Economics.
Prerequisites: EMA 261, ECO 208, ECO 212

ILT 104 Information Retrieval and Evaluation Skills for the Social Sciences (Lab) 1-0-1
The objective of this laboratory course is to introduce students to the skills necessary to effectively complete their research assignments, including the correct use of library resources such as the online catalogue, periodical indexes and other relevant databases. Other areas of study include the identification of key terms for effective searching, productive use of the internet and the critical evaluation of retrieved resources. Academic integrity, plagiarism and the correct citation of print and online sources are also covered. Taught in conjunction with a research-based course, the specific resources relevant to research in the Social Sciences are introduced, and the students retrieve the material necessary to complete the essays for their particular course. The course is taught in the library's electronic classroom, and each week the students are given the opportunity for practical experience.
Equivalent to ILT 100 or ILT 102 as part of the Economics Honours, Major, and Minor programs.

Cognate Courses

A number of cognate courses may be taken in such areas as Business Administration, Mathematics, Computer Science, Environmental Studies and Geography and Political Studies. Consult the Chairman of the Department for the full range of possibilities.

Environmental Studies and Geography

The Environmental Studies and Geography Department offers a wide variety of courses focusing mainly on the academic area of Environmental Studies. The intention is to provide students with the systematic elements essential for an understanding of environmental impacts, policy, history and thought. It is possible for students to develop their interests in three areas: the physical processes underlying environmental systems; the human impacts on these systems, including policy creation; or the history and philosophy of environmental issues. In order for a complete understanding of the impacts people are having on their environment, whether they be at a local, regional or global scale, we must understand the how and why the environment is changing. Climate change, acid precipitation, ozone depletion, waste management and water conservation are issues which require thorough examination in order that proper decision-making processes can be implemented by leaders in government, industry and non-governmental organizations. We carefully and systematically examine all aspects of the environment so that our graduates can play an important role in the future of our environment.

A degree in Environmental Studies and Geography often leads to degrees in higher education, including an M.A. and/or Ph.D. It is also a sound basis for a career in law and/or politics, teaching, journalism, environmental consulting or government service. Former graduates have been very successful in attaining admission to Graduate and Law Schools, and obtaining employment in various occupational fields related to the environment, in both the public and private sectors.

Bishop's location in the midst of an area of great economic, cultural and physical diversity provides many opportunities for students to take part in practical fieldwork and applied projects. Such studies are integral parts of several courses, especially those relating to elements of physical geography and human impact on the environment. Students enrolling in ESG courses should be prepared to devote time to fieldwork outside of normal class time. Details of field studies will be discussed within individual courses.

The Eastern Townships Collection of the Bishop's University Library provides an important source of research materials for local area studies dealing in particular with the geography of southern Quebec.

The Program

Areas of Concentration

Students must register in either the Environmental Studies Concentration or the Geography Concentration. The details of the concentrations are given below:

A) Environmental Studies Concentration

48-credit Major

1. Core Required Courses 11 courses 33 credits

Students must take all of the following courses, preferably in the annual sequence noted:

Year 1:

ESG 100	Introduction to Environmental Studies
ESG 126	Introduction to Human Geography
ESG 127	Introduction to Physical Geography
MAT 190	Precalculus Mathematics
ELA 116	Effective Writing **OR** a University-level English Literature 3-credit course

Year 2:

ESG 260	Research Methods
ESG 262	Introduction to Geographic Information Systems
ESG 224	Human Impact on the Environment
ESG 267	Global Environmental Change: a physical perspective

One of the following quantitative analysis courses:

ESG 261, BMA 140, , PMA 160 or PHY 101

Year 3:

ESG 300	Environmental Studies Seminar

2. Additional Required Courses 5 courses 15 credits

Students must complete 5 courses from one of the three following lists (laboratory credits do not count toward the total credits required):

a) Environmental Impact and Policy:

ESG 175	Economic Geography
ESG 212	Urban Geography
ESG 248	Geography of Food
ESG 249	Resource Management
ESG 264	Outdoor Recreation
ESG 266	Environmental Policy
ESG 339	The Canadian Arctic
ESG 340	The Circumpolar North
ESG 348	Urban Planning
ESG 349	Watershed Management
ESG 350	Environmental Justice
ESG 354	Environmental Impact Assessment
ESG 358	International Environmental Issues
ESG 362	Advanced Geographic Information Systems
ECO 103	Macroeconomics
ECO 102	Microeconomics
ECO 237	Economics of the Environment
ECO 337	Ecological Economics
POL 101	Introduction to Modern Governments
POL 214	Public Administration
POL 334	Public Policy Analysis
PBI 241	Evolutionary Psychology
PSY 293	Multicultural Psychology
SOC 322	Urban Sociology

b) Science and the Environment

ESG 226	Physical Oceanography
ESG 227	Biogeochemical and Environmental Oceanography
ESG 250	Geomorphology
ESG 251	Soils and Vegetation
ESG 265	The Atmosphere and Weather
ESG 269	The Earth's Crust
ESG 361	Glacial Environments
ESG 362	Advanced Geographic Information Systems
ESG 363	Natural Hazards
ESG 364	Field Course in Environmental Studies and Geography
ESG 365	Mid-latitude Weather Systems
ESG 367	Climate Change
BIO 196	Introduction to Cellular and Molecular Biology
BIO 197	The Evolution of Life
BIO 205	Diversity of Life I
BIO 206	Diversity of Life II
BIO 207	General Ecology
BIO 327	Advanced Ecology
BIO 321	Biogeography
MAT 191	Enriched Calculus I
PHY 191	Introductory Physics I
CHM 191	General Chemistry I
CHM 192	General Chemistry II
CHM 241	Environmental Chemistry I
CHM 242	Environmental Chemistry II

c) Environmental History and Thought:

ESG 162	Canada: A Nation of Regions
ESG 163	Introduction to Landscape and Cultural Geography
ESG 211	Historical Geography of the Eastern Townships
ESG 268	Human Landscape and Environmental Change
ESG 339	The Canadian Arctic
ESG 340	The Circumpolar North
ESG 353	Landscape
ESG 366	Ethical Perspectives on Environmental Problems
ENG 118	Literature of the Environment
HIS 104	The Development of the West
HIS 105	The 20th Century World
HIS 211	Canada Since 1945
PHI 140	Introduction to Ethics
PHI 240	Topics in Business Ethics
PHI 245	The Philosophy of Science
PHI 246	Philosophy of Art
REL 100	Western Religions
REL 101	Eastern Religions
SOC 107	Canadian First Nations
SOC 207	North American First Nations

3. Honours Requirements:

60-credit Honours

Same Required courses as for the Major, plus:
ESG 461 Honours Research Proposal
ESG 462 Honours Thesis
Six additional ESG credits, for a total of 60 ESG credits.
A minimum of 70% overall average

***Note**: Some of the required courses listed may have one or more prerequisites. It is the student's responsibility to ensure these prerequisites are completed; these completed prerequisites may be counted as Electives.*

B) Geography Concentration

1. For a Major, the student must take at least 45 credits in Environmental Studies and Geography. Honours and Majors students must complete ESG 126, ESG 127, ESG 260 and ESG 261.

2. Honours Requirements:

Honours in the Geography Concentration requires at least 60 credits in Environmental Studies and Geography, including ESG 461 and ESG 462. The Honours program requires a minimum 70% average and permission of the Department.

Departmental regulations of particular note include:

ESG 100, ESG 126 and ESG 127 are normally prerequistes for all upper-year courses.

Departmental Minors:

Environmental Studies Minor

The Environmental Studies Minor encompasses the study of several major natural systems including the atmosphere, the hydrosphere and the lithosphere, as well as the effects of human activities on the three systems. The program is intended to provide students with an interdisciplinary approach to the natural environment, an approach that is embedded in the Liberal Arts and Science tradition of Bishop's University. The objectives of the program are not only to equip students with the scientific knowledge of their environment, but also to enrich this knowledge with a study of the social, political and policy aspects necessary to effectively analyse complex environmental systems.

The Environmental Studies Minor consists of the following four required courses:
ESG 100 Introduction to Environmental Studies
ESG 126 Introduction to Human Geography
ESG 127 Introduction to Physical Geography
ESG 224 Human Impact on the Environment

In addition, students must take four more ESG courses for a total of 8 courses, 24 credits, from the Department of Environmental Studies and Geography.

Geography Minor

The Geography Minor consists of two required courses, ESG 126 and ESG 127 plus six additional ESG courses for a total of 24 credits from the Department of Environmental Studies and Geography.

Certificate in Environmental Studies and Geography (30 credits)

The Certificate in Environmental Studies and Geography offers students the opportunity to explore the distribution and interrelationships of physical and human phenomena on the earth. It combines concepts, methodologies and field work from both the natural and social sciences, offering flexibility and a vast array of course options to choose from.

Required: 9 credits (3 courses):
ESG 100 Introduction to Environmental Studies
ESG 126 Introduction to Human Geography
ESG 127 Introduction to Physical Geography

The remaining 21 credits (7 courses) may be chosen from any of the other ESG course offerings. Please bear in mind that many courses have prerequisites that need to be observed.

ESG 100 Introduction to Environmental Studies 3-3-0
An introductory approach toward understanding the global environment and the human impact on this environment. Topics covered include processes operating in natural systems, the identification of problems caused by human interaction with these systems, solutions to these problems and the implementation of possible solutions.

ESG 126 Introduction to Human Geography 3-3-0
An introduction to the field of human geography; its scope and methods. The aim is to focus on the relationship between people and their environment, including population trends, resource use, political and economic forces and urban planning.

ESG 127 Introduction to Physical Geography 3-3-0
An introduction to the principles and methods of climatology and geomorphology. Topics discussed include Earth's radiation balance, atmospheric wind systems, major climate types, and the work of geomorphic agents, such as water and wind, on the development of physical landscapes.

ESG 162 Canada: A Nation of Regions 3-3-0
This course examines Canada's evolving regional geography through an exploration of the natural, social, political, cultural and economic forces involved in creating a distinctly Canadian landscape. The course divides Canada into various regions: The Atlantic Region, St. Lawrence-Great Lakes Lowlands, The Canadian Shield, The Western Interior, British Columbia and The North in an effort not only to understand the vast differences within Canada, but also to deepen our understanding of Canada as a whole.

ESG 163 Introduction to Landscape and Cultural Geography 3-3-0
Cultural geography is concerned with making sense of people and the places that they occupy, an aim that is achieved through analysis and understandings of cultural processes, cultural landscapes and cultural identities. This course explores contemporary cultural geography and landscape studies by applying and evaluating - at different scales - the concepts of cultural diffusion, cultural region, cultural ecology and cultural landscape. Particular attention will be placed on interpretations of how cultural spaces are constructed, contextualized and conserved.

ESG 175 Economic Geography 3-0-0
The production of, and trade in, goods and services vary by city, region, and country. In recent years, these spatial variations have widened in some cases, and narrowed in others. But common to all are the drivers-of-change. These include major geo-political events, the adoption of innovative cost-saving practices, and the creation and evolution of entrepreneurial networks and industrial clusters. This course will explore the key elements of these dynamics, and explore the ongoing debate about the appropriate role of government in an increasingly-globalized world.
This course is cross-listed with ECO 175.

ESG 211 Historical Geography of the Eastern Townships 3-3-0
A retrospective approach to the Eastern Townships blending history and landscape. Various themes will be presented to examine the principle elements of landscape change during the 19th and 20th centuries in relation to the spread of the agricultural frontier, the changing cultural geography of the region, and the introduction of the area as a recreational retreat.

ESG 224 Human Impact on the Environment 3-3-0
Changing environmental relationships in the modern context of population growth and technological advance. The human impact on the world's atmosphere and climate, water, land and soils, vegetation, and animal life.
Prerequisite: ESG 100 or ESG 126

ESG 226 Physical Oceanography 3-3-0
An introduction to physical and geological oceanography. Topics to be covered include: the history of oceanography, plate tectonics and the origin of the oceans basins, marine sediments, seawater properties, ocean climates, geostrophic currents, deep ocean circulation, waves and tides.
Prerequisite: ESG 127 or permission of the Instructor

ESG 227 Biogeochemical and Environmental Oceanography 3-3-0
An introduction to marine life and the interaction between the oceans and society at large. Topics will include: biological productivity (phytoplankton, zooplankton), biogeochemical, cycles in the oceans, life in various marine habitats, marine resources, fisheries, mariculture, pollution, coastal development and other environmental issues affecting the oceans.
Prerequisite: ESG 226a (Oceans I) or ESG 127

ESG 248 Geography of Food 3-3-0
This course examines the growing harvesting, processing, packaging, transporting, marketing, consumption, and disposal of food and food-related items. By employing spatial concepts and analysis the impacts of food systems on the natural environment, this course examines conventional/industrial food systems, as well as alternatives such as organic food, local food, community-supported agriculture, farmers' markets, slow food movements and others.
Prerequisites: ESG 100 and ESG 126

ESG 249 Resource Management 3-3-0
This course examines the interactions between natural and social processes in the development, use and conservation of natural resources. Theories and concepts explored are: integrated resource management, ecosystem management, adaptive management and the role of public participation. Case studies explore trends in forestry, fisheries, agriculture, mining, wildlife and water management.
Prerequisites: ESG 100

ESG 250 Geomorphology 3-3-0
Selected topics in geomorphology with particular emphasis on fluvial processes and land forms of southern Quebec. Aspects of applied physical geography may be covered. Fieldwork is an integral part of this course.
Prerequisite: ESG 127

ESG 251 Soils and Vegetation 3-3-0
The systematic examination of the development and distribution of the major soil and vegetation types of the world and of the ways in which these elements of the physical environment have become resources subject to varying utilization patterns.
Prerequisite: ESG 127

ESG 260 Research Methods 3-3-0
An introduction to research methodology and its application to environmental studies and geography. Course modules include research design, hypothesis testing, sampling techniques, interview techniques, archival techniques and other approaches to primary and secondary data gathering.
Prerequisite: ESG 126 and ESG 127

ESG 261 Quantitative Methods 3-3-0
Quantitative methods in environmental studies and geography; the nature of explanation; problems of observation and data collection; descriptive statistical analysis; inferential statistical analysis.
Prerequisite: ESG 126 and ESG 127

ESG 262 Introduction to Geographic Information Systems 3-3-0
An introduction to geographic information systems including cartographic concepts, basic remote sensing (aerial photography and digital imagery), vector and raster digital spatial data models, data input and editing, database management, structured query language, and elementary spatial analysis.
Prerequisites: ESG 126 and ESG 127; Open only to ESG students in the Environmental Studies Concentration

ESG 264 Outdoor Recreation 3-3-0
This course examines: (i) theories and concepts concerning the recreational use of natural settings (the human dimensions), (ii) the nature, capabilities and limitations of natural settings (the natural dimensions) and, (iii) the institutional arrangements which exist to manage outdoor recreation settings (the management dimensions), including national parks and protected areas.
Prerequisite: ESG 100 or ESG 126

ESG 265 The Atmosphere and Weather 3-3-0
A comprehensive description of the principal characteristics of Earth's atmosphere including air temperature, density, pressure and moisture; the development of clouds, wind and precipitation, and physical explanations of weather events such as mid-latitude cyclones, thunderstorms and hurricanes.
Prerequisite: ESG 127 or permission of the Instructor

ESG 266 Environmental Policy 3-3-0
An introduction to the field of environmental policy, with an emphasis on the regulation of technological hazards. Consideration will also be given to different approaches to environmental policy, including "command-and-control" regulation and enforcement as well as the emergence of market incentives and voluntary initiatives. Topics will include: air quality, water quality, solid and hazardous waste, toxic substances, pollution-prevention and environmental assessment.
Prerequisite: ESG 224 or permission of instructor

ESG 267 Global Environmental Change: a physical perspective 3-3-0
An examination of the general trends and concepts associated with global environmental change using a physical geographic approach. This includes analysis of the complex interlinkages of the atmosphere-ocean-terrestrial-biosphere systems, of environmental changes during the Quaternary Period, and of the environmental issues associated with these changes. The human response to global environmental change will be covered in less detail.
Prerequisite: ESG 100 and ESG 127

ESG 268 The Human Landscape and Environmental Change 3-3-0
This course uses various aspects of environmental change to identify links between the sciences and the humanities. A convergence of these two conceptual approaches can provide a more holistic understanding of the long-term processes impacting both human and physical environments. How different cultures conceptualise their relationships with the physical environment is central to how environmental management decisions are made.
Prerequisite: ESG 100, ESG 126, ESG 162 or ESG 163

ESG 269 The Earth's Crust 3-3-0
The course is a general study of the materials and dynamics of Earth's crust. Students will learn about igneous, metamorphic sedimentary rocks, rock weathering and transport of material at the surface. They will also learn the basic principles of physical geology and how the Earth works: volcanic activity, earthquakes, rock deformation, mountain building, and plate tectonics. We will also explore the vastness of geologic time.
Prerequisite: ESG 127

ESG 300 Environmental Studies Seminar 3-3-0
Selected topics in Environmental Studies will be examined. The course allows detailed study of particular areas of environmental research through student-led seminars and general class discussion.
Prerequisites: ESG 224 and ESG 267; open only to U3 ESG Honours and Majors in the Environmental Studies Concentration

ESG 339 The Canadian Arctic 3-3-0
The ecology of traditional Eskimo occupance; socio-economic change through contact with explorers, whalemen, traders, missionaries, and administrators. Demographic centralization; industrial development; nunamiut and kabloonamiut; frontier or homeland? The outlook for renewable resources. Problems of sovereignty over arctic space.
Prerequisite: ESG 100, ESG 126, ESG 162 or ESG 163

ESG 340 The Circumpolar North 3-0-0
An introduction to the physical and cultural geography of the Circumpolar North. This course will focus upon the cultural and political ecology of the human population in this region. The emphasis will be upon the contexts of human life and human experience in the North. This course also includes discussions of the northern landscape: nunamiut and kabloonamiut; demographic centralization; challenges to sovereignty over arctic space. The emphasis will be on lectures and class participation. There will be time set aside to discuss lecture topics and to add concerns of interest to the students; class participation is highly encouraged.
Prerequisite: ESG 100, ESG 126, ESG 162 or ESG 163

ESG 346 Independent Study I / Internship I 3-0-0
Open to U3 majors and honours students at the discretion of the Department.

ESG 347 Independent Study II / Internship II 3-0-0
Open to U3 majors and honours students at the discretion of the Department.

ESG 348 Urban Planning 3-3-0
Consideration of several aspects of the city planning process: the legal basis of planning, the official Plan, zoning, transportation, planning procedure and implementation, the goals of planning.
Prerequisite: ESG 126 or permission of the instructor.

ESG 349 Watershed Management 3-3-0
This course examines integrated watershed management, including assessment of biophysical freshwater systems, implications of natural resource development and land use on water quality and quantity, as well as institutional arrangements and the role of stakeholder involvement in watershed-scale decision-making. Field studies in the St. Francis River Watershed.
Prerequisite: ESG 249

ESG 350 Environmental Justice 3-3-0
An introduction to the field of environmental justice, with an emphasis on fairness and equity in environmental management. The course will examine the history of activism and the development of theoretical work and empirical evidence regarding the connections between race, class and the environment.
Prerequisite: ESG 224 or permission of instructor

ESG 353 Landscape 3-3-0
This course explores landscapes as products of interacting physical and human processes, and examines how those processes can change landscapes over time. The course uses an integrated approach to examine and interpret contemporary landscapes and reconstruct landscapes of the past, and highlights the utility of landscape science for environmental management applications. The course will be conducted through lectures and student-led seminars.
Prerequisite: ESG 126 and ESG 127

ESG 354 Environmental Impact Assessment 3-3-0
Environmental impact assessment (EIA) is intended to provide a basis for deciding whether and how to proceed with a proposed resource development project so as to prevent or minimize environmental degradation. This course will examine the theory, methods, regulatory frameworks and social implications of EIA with emphasis on recent Canadian case studies.
Prerequisite: ESG 249

ESG 358 International Environmental Issues 3-3-0
Environmental factors and their impact on global agricultural production, population growth and distribution. Fresh water and its effect on socio-economic development and political stability. Issues in trans-boundary pollution are discussed. Case studies from developed and developing countries.
Prerequisite: ESG 224 or permission of the instructor.

ESG 361 Glacial Environments 3-3-0
The study of processes in glaciated environments. Particular emphasis will be placed on the effects of past glaciations on the Canadian landscape and on the action of contemporary Canadian glaciers. Arctic and alpine environments provide many excellent examples of these processes.
Prerequisite: ESG 250 or permission of instructor.

ESG 362 Advanced Geographic Information Systems 3-3-0
Project-based applications stress the utility of advanced GIS analysis in environmental studies and geography.
Prerequisite: ESG 262

ESG 363 Natural Hazards 3-3-0
The course is an examination of the occurrence, nature and explanation of hazardous natural processes. Attention will be given to defining natural hazards, describing their physical characteristics and discussing the human response to these events. Geological hazards, such as earthquakes, floods and volcanoes, and climatological hazards, such as hurricanes, tornadoes and blizzards, will be studied.
Prerequisite: ESG 250, ESG 269 or ESG 265

ESG 364 Field Course in Environmental Studies and Geography 3-0-0
The course will introduce students to field techniques and data collection and analysis in human, environmental and physical geography. Sometimes offered during Spring semester, depending on faculty resources and student enrollments. A field camp fee will be assessed.
Prerequisite: Open to U3 majors and honours students at the discretion of the Department.

ESG 365 Mid-Latitude Weather Systems 3-3-0
Examination of several of the major factors in mid-latitude cyclones including: air masses, upper and middle atmospheric structure, baroclinic instability, vorticity, divergence and geostrophic flow. Discussion of normal and extreme weather events such as blizzards, thunderstorms, extra-tropical cyclones, tornadoes and Nor'easters. An introduction to weather forcasting and weather on the internet.
Prerequisite: ESG 265

ESG 366 Ethical Perspectives on Environmental Problems 3-3-0
An introduction to the major philosophical traditions in the field of environmental ethics: natural law, utilitarianism, virtue theory and deontology. The use of case studies in environmental problems, e.g. ocean dumping, nuclear wastes, air pollution, greenhouse gases, etc., as a way of exploring several contemporary positions such as biocentrism, ecocentrism, the land ethic and deep ecology.
Prerequisite: ESG 126 and ESG 127

ESG 367 Climate Change 3-3-0
The course examines the debate surrounding global climate change with climatic and paleo-climatic perspectives. The climate system's natural variability, and predicted impacts and environmental implications are examined. The course will include a short review of the present climate system, and a section on the Holocene climate. We will also examine how predictive climate models are developed and tested against recent and Holocene paleo-climatic data.
Prerequisite: ESG 267

ESG 370 Special Topics in Environmental Studies and Geography 3-3-0
A lecture/seminar course offered by regular and visiting faculty on environmental/geographical topics related to their research interests. Topics are determined by the instructor therefore content of the course varies year by year. The course will be offered on an occasional basis.
Prerequisite: Open only to U3 Honours and Majors in Environmental Studies and Geography.

ESG 461a Honours Research Proposal 3-0-0
An introduction to the planning, execution and reporting of Environmental and Geographic research. The student is required to select an appropriate research project and, under the supervision of a faculty member, complete a formal research proposal. The proposal must include a detailed Introduction, including the purpose, objectives and research hypothesis, a detailed Conceptual Background, with associated Literature Review and Bibliography, and a description of the Research Methods and Data Collection Techniques to be used in the project. Preliminary data collection should also take place. The Proposal will be presented at a Departmental seminar to be scheduled during the last two weeks of classes.
Prerequisite: Permission of Department

ESG 462b Honours Thesis 3-0-0
The continuation of ESG 461. Information and data collected for the Honours Research Proposal, plus additional data collected will be analysed, discussed and presented in an Honours thesis. Research findings will be presented at a Departmental seminar to be scheduled during the last two weeks of classes; the final submission of the thesis must occur before the last day of the formal examination period. The completion of both ESG 461 and ESG 462 is necessary to satisfy the requirements for Honours in Environmental Studies and Geography.
Prerequisite: ESG 461 and permission of the Department

Politics and International Studies

The Department of Politics and International Studies offers the following programs of study: Honours, Major and Minor in Political Studies; Honours, Major and Minor in International Studies; Honours and Major in International Political Economy.

CREDIT REQUIREMENTS FOR PROGRAMS OFFERED BY THE DEPARTMENT OF POLITICS AND INTERNATIONAL STUDIES

PROGRAM	Honours*	Major	Minor
Political Studies	60	48	24
International Studies	60	48	24
International Political Economy**	60	48	X

** **Grade requirements** – To enter or continue in an Honours program, students must normally obtain and sustain a cumulative average of 75%.*

*** Offered jointly by the Department of Economics and the Department of Politics and International Studies.*

POLITICAL STUDIES – PROGRAMS AND REQUIREMENTS

Political Studies provides students with a working knowledge of power and authority in society and how decisions are made. Governments, politicians, leaders in private industry and ordinary individuals function within a framework of accepted political norms, e.g. notions of justice, freedom, rights and duties. Over time, these received norms are challenged by conventional methods such as voting, political parties, interest group lobbying and protest movements; or the challenge may be by militant, revolutionary or terrorist means. Political Studies systematically examines and presents these phenomena.

Knowing the political system increases one's capacity for choice. Therefore, a knowledge of Canadian federal and provincial politics presents the student with greater opportunities and advantages within his or her society. Political Studies also explores other political systems, e.g. the American system, the European Union, post-communist political systems and developing states, while international relations considers conflict and cooperation between states as well as the impact of globalization on the emergence of a new international economic and political order. The discipline allows for a critical evaluation of society and its institutions through a study of the history of political theory; in addition, the student may engage in a problem solving approach through empirical policy research using survey methods.

A degree in Political Studies may lead to further specialization in an M.A. or Ph.D. program. It is also a preparation for professional studies in law, teaching, journalism and public administration. Our graduates have a very high success rate in being admitted to Law and Graduate Schools.

Lectures, seminars and individual tutorials are normal methods of instruction and the department stresses personal contact with students as much as possible in order to assist students in choosing a postgraduate career in government, business or the academic field. Guest lectures are frequently given by visiting politicians, academics, interest group representatives and industry leaders.

The program is divided into seven divisions: I) General Introductory Courses, II) Canadian Politics, III) Political Theory, IV) Comparative Politics, V) International Relations, VI) Research Theory and Methods, VII) Honours Thesis, Independent Studies, Practicum and Internships.

HONOURS IN POLITICAL STUDIES

An Honours program in Political Studies consists of at least 60 credits.

To enter or continue in an Honours program, students must normally obtain and sustain a cumulative average of 75%. Honours students who do not maintain this average will automatically revert to the Major program.

Required Courses

Students in the Honours program shall normally take POL 100 and POL 101 early in their studies at Bishop's University. Students should normally take 100-level courses from the other divisions before attempting higher level courses. More advanced courses commonly have 100 - level prerequisites. After they have completed 60 credits at Bishop's, students will need Departmental permission to take any further 100-level courses. In addition to the General Introductory Courses, students must take the following:

II. Canadian Politics: any two (2) courses
III. Political Theory: POL 228 and POL 229
IV. Comparative Politics: any two (2) courses.
V International Relations: any two (2) courses
VI. Research Theory and Methods: POL 361

Due to the close linkages between Politics and Economics, all honours students must also take: ECO 103 Principles of Economics: Macroeconomics

400- and 500-Level Required Courses

These courses are open primarily to Honours students. Honours students have two (2) options:

a) They may take only POL 550/Honours Thesis. This course is normally taken in the last thirty (30) credits in the Honours program.

b) They may take any two (2) 400-level courses. These courses are normally taken in the last thirty (30) credits in the Honours program.

Honours Thesis and Independent Study

The Honours Thesis and Independent Study courses are open only to advanced level Honours students. They are offered exceptionally and at the discretion of the Department. These courses are also governed by departmental regulations that are available from the Chair of the Department.

Cognate Courses

Honours students are normally expected to take at least 60 credits of Political Studies courses. However, students in their final thirty (30) credits of study, may petition the Department for authorization to take six (6) credits of cognate courses. This is to be done immediately following the formal registration period, but before the last day in the semester to add, drop or change all three-credit courses. It is understood that this is an exceptional measure to be granted at the discretion of the Department.

MAJOR IN POLITICAL STUDIES

A Major program in Political Studies consists of at least 48 credits.

Required Courses

Students in the Major program shall normally take POL 100 and POL 101 early in their studies at Bishop's University. Students should normally take 100-level courses from the other divisions before attempting higher level courses. More advanced courses commonly have 100-level prerequisites. After they have completed 60 credits at Bishop's, students will need Departmental permission to take any further 100-level courses. In addition to the General Introductory Courses, students must take the following:

II. Canadian Politics: any two (2) courses
III. Political Theory: POL 228 or POL 229
IV. Comparative Politics: any two (2) courses.
V. International Relations: any two (2) courses
VI. Research Theory and Methods: POL 262 **or** POL 361

400-Level Courses

These courses are open primarily to Honours students, but may be offered in exceptional circumstances to advanced level Major students, who maintain a 75% average, at the discretion of the Department.

Independent Study

Independent study is open primarily to Honours students, but may be offered to advanced level Major students, who maintain a 75% average in Political Studies. These courses are offered exceptionally and at the discretion the Department. They are also governed by departmental regulations that are available from the Chair of the Department.

Cognate Courses

Major students are normally expected to take at least 48 credits in Political Studies courses. Students in their final thirty (30) credits of study may seek Departmental authorization for a three-credit cognate. It is understood that this is an exceptional measure to be granted at the discretion of the Department.

Minor in Political Studies

A Minor in Political Studies consists of at least 24 credits.

Required Courses

Students in the Minor program shall normally take POL 100 and POL 101 early in their studies at Bishop's University. Political Studies students have priority registration for POL 100 and POL 101.

Any one course in II. Canadian Politics, III. Political Theory, IV. Comparative Politics and V. International Relations.

400-Level Courses

Not normally open to students in the regular Minor program.

Independent Study

Not normally open to students in the regular Minor program.

Cognates

No cognate courses are allowed in the regular Minor program.

INTERNATIONAL STUDIES – PROGRAMS AND REQUIREMENTS

The International Studies programs provide students with working knowledge of the global community in which they live, and prepare them to pursue careers involving international interactions. The programs consist of an integrated group of courses reflecting international aspects from cultural, economic, environmental, legal, political and social perspectives. Foreign language training and study abroad experiences are also incorporated into the programs.

HONOURS IN INTERNATIONAL STUDIES

(60 credit program)

An Honours program in International Studies consists of at least 60 credits, and it has a two-tier structure. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community along with more advanced study and experience in global affairs. It also provides an opportunity to specialize in an area of interest.

The Honours program has several components. All students have to complete 18 credits of foundation courses, plus 12 credits of language courses (6 of which must be at an advanced level), plus a 400-level course or an Independent Study course or an Honours Thesis, plus a semester abroad on exchange or an International Studies Internship. In addition, students should choose one of two areas of concentration to complete the last 27 credits.

The **Global Governance Concentration** introduces you to theories, concepts and issues in world politics, examining areas such as conflict and intervention, peace and security, human rights, multinational corporations, environmental issues and globalization. The **Global Culture Concentration** is designed for those students who wish to develop critical understanding about how cultures are formed, the social and political impacts of cultural growth, and the comparison of different cultures.

Required Courses (33 credits):

POL 101 Introduction to Comparative Politics
POL 140 Introduction to International Relations

Plus one of:

POL 241 International Affairs
POL 242 International Organizations

Plus three of:

POL 141 Introduction to Diplomacy
POL 240 International Political Economy
POL 338 International Law and Human Rights
POL 340 Strategic Issues: Questions of War and Peace
POL 345 Introduction to Public International Law
POL 352 United Nations Practicum I

Note: *Students who have taken* **both** *POL 241 and POL 242 are only required to take* **two** *courses from the above section.*

Plus:

One POL courses at the 400 level
or
POL 550 Honours Thesis (6 credits)

Plus:

Four language courses (at least two of which must be at an advanced level)

Plus:

One semester exchange abroad
or
International Studies Internship

Notes:

1. Language Courses:
   a. 12 credits of language courses other than the student's mother tongue. The language courses can be taken at Bishop's or from a program at another university, approved by the Department of Politics and International Studies and the Department of Modern Languages.
   b. Depending on a student's entry-level competence, extra courses at the beginners or intermediate level might be required.
   c. Upon entering the program students should (a) consult with the appropriate Modern Languages faculty, regarding the language requirements for the program and (b) familiarize themselves with the language competency required for any intended exchange destinations.
   d. Students with no previous familiarity with a foreign language should anticipate two years of study (normally a minimum of 6 courses) in order to attain a level adequate for exchange studies in that language. This may vary according to the country of exchange.
2. Any additional required course can count as one of the electives in either of the two concentrations.
3. The addition of a Minor language concentration (8 courses) to the Honours in International Studies is strongly recommended.

Plus Elective Courses (27 credits):

Students should normally choose one of two concentrations: **Either**: "Global Governance" **or** "Global Culture"

Global Governance Concentration

Nine of:

BMG 222	International Business Law
ECO 103	Principles of Economics: Macroeconomics
ECO 217	International Economics
ECO 220	Economic Development I
ECO 237	Economics of the Environment
ESG 358	International Environmental Issues
POL 170	Introduction to European Politics
POL 172	Introduction to American Politics
POL 173	US Government and Public Policy
POL 231	European Union: History, Institutions and Policies
POL 232	Politics in Asia
POL 233	Politics of the Iberian Peninsula
POL 234	Politics of Africa
POL 235	American Political Economy
POL 236	Introduction to Middle Eastern Politics
POL 238	Political Economy in Asia
POL 239	Politics of Russia and Eastern Europe
POL 245	American Foreign Policy
POL 249	Canadian Foreign Policy
POL 277	European Diplomacy Since 1914
POL 317	Globalization and the Canadian State
POL 330	Topics in US Public Policy
POL 333	Internationalization of European Public Policies
POL 335	Politics of Latin America and the Caribbean
POL 343	Canadian-American Relations
POL 344	Politics of International Trade and Investment
POL 346	Politics of Global Finance
POL 347	Scandinavian Politics
POL 354	United nations Practicum 2
POL 441	Theories of International Relations
POL 442	Issues in Global Governance

Note: POL 441 or POL 442 cannot be simultaneously counted as electives in the Global Governance Concentration and as fulfilling the 400-level course requirement.

Or:

Global Culture Concentration:

Nine of:

DRA 170	Introduction to Film
ENG 102	Approaches to Media Studies
ENG 235	Cultural Studies: History, Theory and Practice
ENG 236	Popular Culture
FIH 240	Art, Popular and Mass Culture
FIH 314	Colonial and Postcolonial Issues in the Visual Arts
GER 250	German Civilization and Culture
GER 383	20th Century German Literature and Culture 1
GER 384	20th Century German Literature and Culture 2
HIS 105	The 20th Century World
HIS 108	Introduction to Indigenous Studies
HIS 256	Latin America 1800 to the Present
HIS 284	Twentieth Century China
ITA 309	Italian Cinema and Society
ITA 311	Italian Civilization and Culture
JSE 150	Japanese Society and Culture
LIB 100	Introduction to the Study of Western Culture
REL 124	Hinduism: The Many Faces of the Divine
REL 125	Buddhism: The Middle Way
REL 126	Judaism: A Covenant With God
REL 127	Islam: Submission to Allah
REL 200	Politics and Religion
REL 257	Christianity: From Constantine to the Twenty-first Century
SOC 223	Women and Global Inequality
SOC 294	Sociology of Tourism
SOC 296	Globalism and Culture
SPA 311	Spain: Civilization and Culture
SPA 313	Mexico: Civilization and Culture
SPA 314	The Central American Region and the Spanish Caribbean: Civilization and Culture
SPA 317	The Southern Cone and the Andean Region: Civilization and Culture

Note that some of the courses above may have one or more prerequisites.

MAJOR IN INTERNATIONAL STUDIES

(48 credit program)

A major program in International Studies consists of at least 48 credits, and it has a two tier structure. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community, while at the same time providing the opportunity to specialize in an area of interest.

All students have to complete 18 credits of foundation courses, 12 credits of language courses and are encouraged to spend a semester on an international exchange or an international internship. In addition, students should choose one of two concentrations to complete the last 18 credits. The **Global Governance Concentration** introduces you to theories, concepts and issues in world politics, examining areas such as conflict and intervention, peace and security, human rights, multinational corporations, environmental issues and globalization. The **Global Culture Concentration** is designed for those students who wish to develop critical understanding about how cultures are formed, the social and political impacts of cultural growth, and the comparison of different cultures.

Required Courses (30 credits):

POL 101	Introduction to Comparative Politics
POL 140	Introduction to International Relations

Plus one of:

POL 241	International Affairs
POL 242	International Organizations

Plus three of:

POL 141	Introduction to Diplomacy
POL 240	International Political Economy
POL 338	International Law and Human Rights
POL 340	Strategic Issues: Questions of War and Peace
POL 345	Introduction to Public International Law
POL 352	United Nations Practicum I

Note: *Students who have taken* **both** *POL 241 and POL 242 are only required to take* **two** *courses from the above section*

Plus:

Four language courses (at least two of which must be at the intermediate or advanced level)

Notes:

1. Language Courses:
   a. 12 credits of language courses other than the student's mother tongue. The language courses can be taken at Bishop's or from a program at another university, approved by the Department of Politics and International Studies and the Department of Modern Languages.
   b. Depending on a student's entry-level competence, extra courses at the beginners or intermediate level might be required.
   c. Upon entering the program students should (a) consult with the appropriate Modern Languages faculty, regarding the language requirements for the program and (b) familiarize themselves with the language competency required for any intended exchange destinations.
2. Any additional required course can count as one of the electives in either of the two concentrations.
3. Students are strongly encouraged to consider taking an international exchange aboard during the course of their degree.
4. The addition of a Minor language concentration (8 courses) to the Major in International Studies is strongly recommended.

Plus Elective Courses (18 credits):

Students should normally choose one of two concentrations:

Either: "Global Governance" or "Global Culture"

Global Governance Concentration

Six of:

BMG 222	International Business Law
ECO 103	Principles of Economics: Macroeconomics
ECO 217	International Economics
ECO 220	Economic Development I
ECO 237	Economics of the Environment
ESG 358	International Environmental Issues
POL 170	Introduction to European Politics
POL 172	Introduction to American Politics
POL 173	US Government and Public Policy
POL 231	European Union: History, Institutions and Policies
POL 232	Politics in Asia
POL 233	Politics of the Iberian Peninsula
POL 234	Politics of Africa
POL 235	American Political Economy
POL 236	Introduction to Middle Eastern Politics
POL 238	Political Economy in Asia
POL 239	Politics of Russia and Eastern Europe
POL 245	American Foreign Policy
POL 249	Canadian Foreign Policy
POL 277	European Diplomacy Since 1914
POL 317	Globalization and the Canadian State
POL 330	Topics in US Public Policy
POL 333	Internationalization of European Public Policies
POL 335	Politics of Latin America and the Caribbean
POL 343	Canadian-American Relations
POL 334	Politics of International Trade and Investment
POL 346	Politics of Global Finance
POL 347	Scandinavian Politics
POL 354	United Nations Practicum 2
POL 441	Theories of International Relations
POL 442	Issues in Global Governance

Note: POL 441 or POL 442 cannot be simultaneously counted as electives in the Global Governance Concentration and as fulfilling the 400-level course requirement.

Or:

Global Culture Concentration:

Six of:

DRA 170	Introduction to Film
ENG 102	Approaches to Media Studies
ENG 235	Cultural Studies: History, Theory and Practice
ENG 236	Popular Culture
FIH 240	Art, Popular and Mass Culture

FIH 314	Colonial and Postcolonial Issues in the Visual Arts
GER 250	German Civilization and Culture
GER 383	20th Century German Literature and Culture 1
GER 384	20th Century German Literature and Culture 2
HIS 105	The 20th Century World
HIS 108	Introduction to Indigenous Studies
HIS 256	Latin America 1800 to the Present
HIS 284	Twentieth Century China
ITA 309	Italian Cinema and Society
ITA 311	Italian Civilization and Culture
JSE 150	Japanese Society and Culture
LIB 100	Introduction to the Study of Western Civilization
REL 124	Hinduism: The Many Faces of the Divine
REL 125	Buddhism: The Middle Way
REL 126	Judaism: A Covenant With God
REL 127	Islam: Submission to Allah
REL 200	Politics and Religion
REL 257	Christianity: From Constantine to the Twenty-first Century
SOC 223	Women and Global Inequality
SOC 294	Sociology of Tourism
SOC 296	Globalism and Culture
SPA 311	Spain: Civilization and Culture
SPA 313	Mexico: Civilization and Culture
SPA 314	The Central American Region and the Spanish Caribbean: Civilization and Culture
SPA 317	The Southern Cone and the Andean Region: Civilization and Culture

Note that some of the courses above may have one or more pre-requisites.

MINOR IN INTERNATIONAL STUDIES

(24 credit program)

Required Courses

POL 101	Introduction to Comparative Politics
POL 140	Introduction to International Relations

Plus one of:

POL 241	International Affairs
POL 242	International Organizations

Plus three of:

POL 141	Introduction to Diplomacy
POL 240	International Political Economy
POL 338	International Law and Human Rights
POL 340	Strategic Issues: Questions of War and Peace
POL 345	Introduction to Public International Law
POL 352	United Nations Practicum I

Plus:

Two language courses at any level.

Notes:

Language Courses

6 credits of language courses other than the student's mother tongue. The language courses can be taken at Bishop's or from a program at another university, approved by the Department of Politics and International Studies and the Department of Modern Languages.

Exchange Program

Students taking the International Studies Honours will normally be required to spend a semester at one of the many universities abroad with which Bishop's has an exchange program. Such programs are developed in consultation with the Chair of the Politics and International Studies Department. Note, however, that students must normally maintain a 70% average to be eligible for the exchange program.

INT 300 – International Development Assistance Internship may substitute for the exchange program.

INTERNATIONAL POLITICAL ECONOMY – PROGRAMS AND REQUIREMENTS

The International Political Economy program provides students with the tools to understand the interaction between economic and political forces in the global environment. Offered jointly by the Departments of Economics and the Department of Politics and International Studies, this area of inquiry examines the complexities of the increasingly interdependent global economy and its relationship to decisions about the governance and redistribution of resources locally, nationally and globally. In the process, students will be able to see how their individual decisions and local environments are intertwined with a worldwide system of economic and political processes that affect people around the globe.

The B.A. Major Program in International Political Economy consists of at least 48 credits, with 24 credits drawn from Politics and International Studies and 24 from Economics. The Honours program in International Political Economy consists of at least 60 credits, with 30 credits drawn from Politics and international Studies and 30 from Economics.

To enter or continue in an Honours program, students must normally obtain and sustain a cumulative average of 75%. Honours students who do not maintain this average will automatically revert to the Major program.

Honours in International Political Economy

(60-credit program)

ECONOMICS REQUIREMENTS (30 credits)

Required Courses:

ECO 102	Principles of Economics: Microeconomics
ECO 103	Principles of Economics: Macroeconomics
ECO 212	Intermediate Macroeconomics I
ECO 270	Public Economics

Plus one of:

ECO 175	Economic Geography
ECO 217	International Economics
ECO 251	History of Economic Thought I
ECO 280	Contemporary Perspectives in Political Economy

Plus Free Elective Courses in Economics:

15 credits

POLITICS AND INTERNATIONAL STUDIES REQUIREMENTS *(30 credits)*

Required Courses:

POL 101 Introduction to Comparative Politics
POL 140 Introduction to International Relations
POL 240 International Political Economy
POL 361 Techniques of Empirical Research

Plus two of:

POL 241 International Affairs
POL 242 International Organizations
POL 317 Globalization and the Canadian State
POL 229 Classical Political Philosophy II
POL 235 American Political Economy
POL 344 Politics of International Trade and Investment
POL 346 Politics of Global Finance

Plus:

One POL 400 level course

Plus Free Elective Courses in Politics and International Studies:

9 credits

Note that some of these courses may have prerequisites or, alternatively, require permission from the instructor.

Additional note: To enter and remain in the Honours program, students must normally attain a cumulative average of 75% in program courses.

Major in International Political Economy

(48-credit program)

ECONOMICS REQUIREMENTS (24 credits)

Required Courses:

ECO 102 Principles of Economics: Microeconomics
ECO 103 Principles of Economics: Macroeconomics

Plus one of:

ECO 175 Economic Geography
ECO 217 International Economics
ECO 251 History of Economic Thought I
ECO 270 Public Economics
ECO 280 Contemporary Perspectives in Political Economy

Plus Free Elective Courses in Economics:

15 credits

POLITICS AND INTERNATIONAL STUDIES REQUIREMENTS *(24 credits)*

Required Courses:

POL 101 Introduction to Comparative Politics
POL 140 Introduction to International Relations
POL 240 International Political Economy

Plus two of:

POL 229 Classical Political Philosophy II
POL 235 American Political Economy
POL 241 International Affairs
POL 242 International Organizations
POL 317 Globalization and the Canadian State
POL 344 Politics of International Trade and Investment
POL 346 Politics of Global Finance

Plus Free Elective Courses in Politics and International Studies:

9 credits

Note that some of these courses may have pre-requisites or, alternatively, require permission from the instructor.

Cross Counting

A maximum of 18 Politics and International Studies credits can be cross counted towards the multiple Honours/Majors and Minors in the Department. In addition, the number of Honours/Majors and Minors (POL, INT, IPE) offered through the Politics and International Studies Department that a student can simultaneously register in to is limited to a maximum of 2 Honours/Majors and 1 Minor.

COURSE OFFERINGS FOR PROGRAMS IN POLITICAL STUDIES

I. General Introductory Courses

POL 100 Politics, Theory and Government 3-3-0
A study of politics within the discipline of political studies and the application of scientific thinking and method to contemporary problems in society. Classical and modern theories will be used to examine such notions as equity and equality, participation and control, force and morality as they relate to authority in the nation-state and international affairs.

POL 101 Introduction to Comparative Politics 3-3-0
A broad view of modern political institutions and processes. The differing forms and workings of governments - unitary, federal, presidential, parliamentary/cabinet, and how they get things done. The main features of representative democracies; comparative party, voting and electoral systems; referendums and recall procedures. Various countries will serve to illustrate the varieties and styles of governing.
Professor Ugland

II. Canadian Politics

POL 112 Introduction to Canadian Politics 3-3-0
An analysis of the Canadian political process. This course will examine the social and economic environment of Canadian politics, political culture and socialization, political participation, voting behaviour, political parties and interest groups.
Professor Stritch

POL 118 Constitutional Law and Canadian Government 3-3-0
An analysis of the impact of leading constitutional decisions on the structure of Canadian government.

POL 214 Public Administration 3-3-0
An introduction to the theory and practice of public administration in Canada. The structure of the public service, organization theory and motivation theory, public planning and finance, public personnel administration, the growth of administrative discretion and administrative responsibility will be studied.
Prerequisite: One POL 100-level course or permission of instructor

POL 216 Canadian Provincial Politics 3-3-0
A comparative analysis of contemporary trends in provincial policy making with special emphasis on Quebec. The structures and processes of provincial policy making will be examined. Provincial language policies, social policies, and resource policies will be studied.
Prerequisite: POL 112, or permission of instructor

POL 249 Canadian Foreign Policy 3-3-0
An analysis of the development of Canadian foreign policy and defence policy. Canada's relations with the Superpowers, the European Union and the Third World will be studied. Topics will include Canada's role in the U.N. and N.A.T.O., Canada's antinuclear diplomacy, and Canada's domestic interests in relation to energy, the Law of the Sea and aerospace law.
Prerequisite: POL 140, or permission of instructor
Professor Gagné

POL 317 Globalization and the Canadian State 3-3-0
In this course, the effects of the multilateral (World Trade Organization) and continental (North American Free Trade Agreement) trading systems on the Canadian state are analyzed. In particular, the effects of recent economic and technological forces on Canadian political processes and structures and on selected public policies will be examined.

POL 318 Elections, parties and voters in Canada 3-3-0
This course examines some of the defining features of Canadian democracy: elections, parties and voters. It focuses on Canada's electoral system, election campaigns, the structure, function and role of parties, and factors which influence the preferences of voters.
Prerequisite: POL 112

POL 410 Selected Topics in Canadian Public Policy 3-3-0
An analysis of selected topics in Canadian public policy from a comparative theoretical perspective. Lectures and seminars.
Honours students only or permission of instructor.

III. Political Theory

POL 223 / CLA 223 Democracy in the Ancient World 3-3-0
The idea of government by the people is highly valued today, but it was first given the name of "demokratia" (democracy) in ancient Greece. The most famous example in Greece is Classical Athens, but democratic elements appeared in many other ancient states, including republican Rome. The course will examine in detail how democracy worked in Athens, Rome, and various other ancient societies: how it began, who could participate, who was left out, what ancient writers thought of it and what were the results of democratic government on those inside and outside of the community.

POL 228 Classical Political Philosophy I 3-3-0
The history of political philosophy through a study of the classical theories from Plato to Machiavelli. The development and change of such concepts as justice, ethics, authority, the individual and the community are explored. A brief comparison with Eastern political philosophy is undertaken.
Prerequisite: POL 100 or permission of instructor.

POL 229 Classical Political Philosophy II 3-3-0
The psychosocial notions about man in a natural state and in society are explored in relation to individualism in Western market society. Analyses focus upon such concepts as the social contract, rationalism, revolution, conservatism, authority, political obligation and the growth of modern democratic theories. Hobbes, Locke, Rousseau, Burke, Hegel, Bentham, J.S. Mill and Marx are the main theorists considered.
Prerequisite: POL 100 or permission of instructor.

POL 324 / PHI 324 The Philosophy and Politics of Karl Marx 3-3-0
A study of the philosophy and political theory of Karl Marx, with emphasis on Marx's theory of society, political economy and history. The course will consider a variety of Marx's texts, but focus on Capital, Volume 1.
Professor Gilbert

POL 325 / PHI 366 Critical Theory 3-3-0
This seminar course will explore the development of Critical Theory from its roots in dialectical philosophy (especially Hegel and Marx), to its appropriation of psychoanalysis (expecially Freud and Lacan), to its engagement with contemporary politics, society and art. Authors studied may include Walter Benjamin, Theodor Adorno, Max Horkheimer and Herbert Marcuse.
Prerequisite: POL 228 or POL 229, or one course in Philosophy.

POL 326 Philosophy of Political History 3-3-0
A philosophical analysis of political history. Treatment of concepts such as perpetual peace, command-obedience, friend-enemy, persecution-esotericism, biopolitics, bare life, state of exception, speed, empire. Drawing on the works of Kant, Nietzche, Heidegger, Schmitt, Strauss, Foucault, Esposito, Agamben, Virlio, Negri.

POL 348 / PHI 342 Seminar in Social and Political Philosophy 3-3-0
This course will typically consist of a detailed study of a great work of Western social and political philosophy. Students will be expected to present seminars and do research on the text itself, the social and political context in which it emerged and its implications for all serious inquiry into questions of society and politics.
Professor Gilbert

POL 420 Modern Political Thought 3-3-0
A study of various approaches and forms expressed in 20th century politics and society: symbolism, myth, scepticism, the psychological, anarchism and structuralism. Works will be from Freud, Oakeshott, Marcuse, Sartori, MacIntyre and Hayek.
Honours students only or permission of instructor.

IV. Comparative Politics

POL 172 Introduction to American Politics 3-3-0
An introduction to political behaviour and processes in American society. Topics will include the socioeconomic bases of U.S. politics, the Constitution, political ideology and culture, parties, interest groups, elections and voting behaviour.
Professor Stritch

POL 173 U.S. Government and Public Policy 3-3-0
An examination of U.S. political institutions and government outputs: the Presidency, Congress, the bureaucracy, federalism, the judicial system and public policy.
Professor Stritch

POL 230 The Politics of Sport 3-3-0
This course examines the various intersections of politics and sport at the domestic and international levels. Some topics include the role of the state in regulating sport, the use of sport in promoting national identity and other political agendas, the politics of international sporting events and the potential of 'sport and development'
Prerequisite: POL 101 or POL 140
Professor McKeen-Edwards

POL 231 European Union: History, Institutions and Policies 3-3-0
A study of the foundation, operation, and policies of the European Union (EU). The first part of the course examines the history of the EU, the second part looks at its institutions, and the final part explores EU policy making processes and several different policy areas.
Professor Ugland

POL 232 Politics in Asia 3-3-0
This course will examine one or more Asian countries, such as China, India or Japan. It will focus on the character of domestic political institutions, processes, and culture in the context of a changing international environment.
Prerequisite: POL100 or permission of instructor

POL 233 Politics of the Iberian Peninsula 3-3-0
An analysis of the structures and processes of governance in Spain and Portugal, including their relationships with each other, the European Union, and international organizations.

POL 234 Politics of Africa 3-3-0
Students are exposed to the approaches of political anthropology in the examination of ancient kingdoms, tribal societies, traditional cultures and the development of contemporary nations in Africa. Present political structures and processes are examined within the framework of Third World politics.
Professor Martin-Brulé

POL 235 American Political Economy 3-3-0
This course studies the links between politics and economics in the United States and attempts to place this relationship in both its historical and international contexts. It examines how the principal forces in American society interact to shape public policy, as well as looking at the impact of government in managing and regulating economic activity.
Prerequisite: POL 172 or POL 173 or permission of instructor.
Professor Stritch

POL 236 / REL 234 Introduction to Middle Eastern Politics 3-3-0
The course will focus on the forces that have shaped current Middle Eastern politics: particularly the growing influence of Islam and Islamic fundamentalism on political life and thought; the enduring legacies of westernization, colonialism and secular nationalism; and the Arab-Israeli conflict. Arriving at an understanding of Middle Eastern politics in this course will also entail study of the challenges modernizing states, parties and leaders are confronting today, and the profound impact of Western interests and policies on the region.
Professor Martin-Brulé

POL 237 Politics of Japan 3-3-0
An analysis of the structures and processes of Japanese governance, including an analysis of Japan's global relations.

POL 238 Political Economy in Asia 3-3-0
This course studies the relationship between politics and economics in selected Asian countries and examines economic and political developments in their global context.

POL 239 Politics of Russia & Eastern Europe 3-3-0
A study of the formation, development and the breakup of the USSR, as well as an examination of politics, society, economy and public policies of Russia and Ukraine.

POL 246 Gender and Politics 3-3-0
A theoretical and empirical study of the relationship between gender and politics with an emphasis on issues of women's equality, justice and rights.

POL 330 Topics in U.S. Public Policy 3-3-0
A study of some of the most controversial issues in contemporary American politics. Topics may include abortion, euthanasia, gun control, capital punishment, pornography, hate speech and censorship, drug legalization, affirmative action and welfare reform.
Professor Stritch

POL 333 Internationalization of European Public Policies 3-3-0
An advanced study of the European integration process from a political science / political economy point of view. The relationships between Europeanization, internationalization and gobalization of public policies in Europe will be examined.
Prerequisite: POL 231 or permission of instructor
Professor Ugland

POL 334 Public Policy Analysis 3-3-0
A critical analysis of the formation, content, and impact of public policy within selected postindustrial societies.
Prerequisite: POL 100 or permission of instructor.
Professor Stritch

POL 335 Politics of Latin America and the Caribbean 3-3-0
Latin American and Caribbean politics will be studied through general theories of development. Examined are such notions as growth, modernity, industrialization, underdevelopment, cultural history as they relate to national and international dependency and interdependency.

POL 347 Scandinavian Politics 3-3-0
A study of political structures and processes in the Nordic countries of Denmark, Finland, Iceland, Norway and Sweden. While largely based on the comparative approach to the study of policies, the program will also highlight special features in each Nordic country. This course will also draw on comparisons between the Nordic countries and Canada.
Professor Ugland

POL 431 The American Welfare State 3-3-0
A study of the origins, development and contemporary character of the social policy network in the United States. The structure of the welfare state, its current problems and attempts at reform will be examined in a theoretical and comparative context.
Honours students only or permission of instructor.
Prerequisite: POL 172
Professor Stritch

POL 434 Theories of Public Policy 3-3-0
An examination of the principal theoretical approaches to the study of public policy. The course will cover such things as pluralism and elite theory, Marxism and neo-marxism, statist and neo-institutional approaches, power resource theory, rational choice, ideas and social learning, advocacy coalition frameworks and punctuated equilibria.
Honours students only or permission of Instructor.
Professor Stritch

POL 436 Comparative Politics: A World of Regions 3-3-0
Regions and regional integration have become critical to contemporary world politics. This course offers a comparative analysis of regional integration efforts and their consequences in different parts of the world.
Professor Ugland
Honours students only or permission of instructor

POL 438 Honours Seminar in Political Economy 3-3-0
An analysis of selected classical and contemporary literature inquiring into the nature and causes of the wealth of nations.
Honours students only or permission of instructor

V. International Relations

POL 140 Introduction to International Relations 3-3-0
Examination of international political issues, institutions and processes. How do states behave toward each other in different types of international systems, and why do they behave in certain ways? Some discussion of international law.
Professor McKeen-Edwards

POL 141 Introduction to Diplomacy 3-3-0
This course seeks to present students with an overview of the essential character and evolution of diplomacy, understood as the primary and peaceful means by which states and other actors try to cooperate and solve problems on the world scene.
Professor Gagné

POL 240 International Political Economy 3-3-0
A study of the political relationships to economic activities in the international arena. The theories, actors and structures in the world political economy will be examined.
Prerequisite: POL 140, or permission of instructor
Professor McKeen-Edwards

POL 241 International Affairs 3-3-0
This course will offer an introduction to key political issues in developing countries. It will cover the main theoretical approaches to the study of developing areas. It will focus on the trajectory of developing states from precolonial times until today. The main political, social and economic forces at play in the building, shaping and consolidating of states and regimes will be addressed. Selected themes will be used to highlight the role of the military, revolutions, liberalization, democratization, environmental and gender issues.
Prerequisite: POL 140, or permission of instructor
Professor Martin-Brulé

POL 242 International Organizations: Principles, Institutions and Politics 3-3-0
A study of the origins, structures and processes of institutions designed to resolve world conflict and secure international cooperation. The United Nations and Regional Organizations will be examined.
Prerequisite: POL 140, or the permission of instructor
Professor Gagné

POL 245 American Foreign Policy 3-3-0
The development of American foreign relations and national security policy from the nineteenth century to the present day. Topics include: interventionism and isolationism, the Cold War and the nuclear arms race, the Cuban missile crisis, Vietnam, US-Soviet relations in the Reagan era, the Gulf War, the response to international terrorism and the invasions of Afghanistan and Iraq.
Professor Stritch

POL 249 Canadian Foreign Policy 3-3-0
An analysis of the development of Canadian foreign policy and defence policy. Canada's relations with the Superpowers, the European Union and the Third World will be studied. Topics will include Canada's role in the U.N. and N.A.T.O., Canada's antinuclear diplomacy, and Canada's domestic interests in relation to energy, the Law of the Sea and aerospace law.
Prerequisite: POL 140, or permission of instructor
Professor Gagné

POL 277 European Diplomacy Since 1914 3-3-0
This course examines the international relations and foreign policies of the major European states from the beginning of World War I to the Cold War and the emergence of the New Europe.
Antirequisite: HIS 366
Professor Gagné

POL 338 International Law and Human Rights 3-3-0
An analysis of the theory and practice of fundamental human rights in contemporary societies. A comparative study of the development and problems of civil liberties from a legal perspective.
Prerequisites: POL 140 or permission of instructor.

POL 340 Strategic Issues: Questions of War and Peace 3-3-0
A study of the general character of war and conflict in the modern world since World War II. Discussions of the basic trends which influence conflicts, be they superpower rivalry or peculiar local conditions. Inquiry into the exploitation or the containment of conflicts by the major powers. Analysis of the most important crises and actual conflicts in such geopolitical areas as the Middle East, Central America,

Africa or Asia. Discussion of the changing patterns of warfare, conventional and nuclear strategies, détente and changes in the maintenance of peace in the future.
Prerequisite: POL 140, or permission of instructor

POL 343 Canadian-American Relations 3-3-0
This course seeks to describe the main aspects of the relations between Canada and the United States. For that purpose, we will concentrate on the main determinants of the bilateral relationship, analyzed around five major themes: the political relations, the economic and trade relations, the identity/cultural relations, the defence and security relations, and the environmental relations.
Prerequisite: POL 140, or permission of instructor
Professor Gagné

POL 344 The Politics of International Trade and Investment 3-3-0
This course explores the key principles and practices underlying International trade and investment negotiations, as well as the main provisions and institutions regulating these fields. Bothe the world trading regime and preferential agreements are considered.
Prerequisite: POL 140 or permission of instructor
Professor Gagné

POL 345 Introduction to Public International Law 3-3-0
An introduction to the nature and development of international law which includes topics such as the law of treaties, the law of the sea, air and space law, and international environmental law as well as jurisprudence related to international dispute settlement.
Prerequisite: POL 140 or permission of instructor

POL 346 Politics of Global Finance 3-3-0
A thematic exploration of the issues and politics of the global financial system. This course explores areas of money and global capital movements, financial instruments and bodies. It examines the functioning and ramifications of international finance, including the politics of international debt, global monetary relations and the transnational governance initiatives of global financial markets and actors.
Professor McKeen-Edwards

POL 441 Theories of International Relations 3-3-0
A study of the various theories used in the investigation of international political behaviour: systems, models, empirical research will be examined towards a more precise understanding of evolving structures and processes in the international arena.
Honours students only or permission of instructor
Prerequisite: POL 140, or permission of instructor
Professor Gagné

POL 442 Issues in Global Governance 3-3-0
This course examines various approaches to understanding global governance and transnational public policy and links them to current and controversial issues in the global arena.
Honours students only or permission of instructor
Prerequisite: POL 140, or permission of instructor
Professor McKeen-Edwards

VI. Empirical Theory and Methods

POL 262 Methods and Approaches to Political Science 3-3-0
An introduction to research methods in Political Science. This course covers the basic concepts and practices for the scientific approach to studying politics from the development of research projects through the different techniques for conducting empirical research.

POL 361 Techniques of Empirical Research 3-3-0
An introduction to empirical political research: the formulation of research problems, the selection of samples, interviewing, questionnaire construction, analysis and interpretation of data.

POL 362 Comparative Political Behaviour 3-3-0
The study of selected issues in comparative politics using quantitative techniques of data analysis. Topics may include such things as political participation, social movements, ideology and political culture, the welfare state, national identity, political parties and voting behaviour.
Prerequisite: POL 361, or permission of instructor.

POL 460 Topics in Empirical Research 3-0-0
An application of analytical techniques to specific problems in political research. Attention will focus on a detailed examination of selected issues at an advanced level.
Honours students only or permission of instructor

VII: Honours Thesis, Independent Studies, Practicum and Internships

POL 300 International Studies Internship
Student must apply, in writing, to the Department to take a Department-sponsored or student arranged internship abroad for credit. A faculty member will be appointed to oversee the internship and to supervise the written component.

POL 352 United Nations Practicum I 3-3-0
This course examines the study of the processes and structures of the UN System and will introduce students to rules and diplomatic practices of these UN bodies through seminars, labs and simulations. This course is to be taken in the same calendar year as POL 354, which is offered in the Winter term.
Prerequisites: POL 140 and one of POL 241 or POL242 and the permission of the instructor.

POL 353 The Nicholas Bachand Canadian Civil Society Internship 3-3-0
The Nicholas Bachand Canadian Civil Society Internship is intended to provide a practical work-experience related to the Political Studies Minor in Public Policy and Public Administration. The internship is intended to enable students to contribute to the well-being of Canadian society by participating in voluntary and non-profit non-governmental organizations (NGOs).

POL 354 United Nations Practicum 2 3-3-0
This course examines the study of the processes and structures of the UN System through seminars and labs, culminating in an annual Model United Nations simulated conference. Students will also study the political processes and issues of the country to be represented that year. Students are expected to enroll in both POL 352 and POL 354 in the same calendar year.
Prerequisite: POL 352 and the permission of the instructor

POL 450 Independent Study 3-3-0
Individual research and reading under the guidance of an advisor and the Department, of special themes in political studies .
Prerequisite: Permission of the Department and instructor

POL 550 Honours Thesis 6-3-0
Individual research and reading under the guidance of an advisor and the Department, on advanced themes in Political Studies.
Prerequisite: Permission of the Department and instructor.

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Psychology

Psychology aims at giving students an understanding of the human mind and behavior. We offer Major and Honours programs that emphasize Psychology as an objective science, cover the various subfields of Psychology and allow the students who desire to do so to gain specialization into specific areas of interest. We also offer a Minor in Psychology, as well as a one-year Certificate in Human Psychology.

Within this general framework, we offer an array of courses that apply the psychological approach to a wide range of topics. We emphasize quality of teaching and a close relationship between professors and students. A fundamental concern of the Department is to provide an education that not only prepares students for further training in Psychology and related fields at the graduate level, but also enables them to be active, contributing members to their communities.

Admission into Psychology Programs

Students applying on the basis of a completed DEC will be admitted into a three-year program. Students from outside Quebec applying on the basis of an Ontario OSSD or a Grade 12 or equivalent will be accepted into a four-year program.

Students may normally transfer into a Major or Honours Psychology program from another Bishop's program, provided they have a minimum cumulative average of 65% on at least 24 course credits completed at Bishop's, or provided they have demonstrated an aptitude for the program by achieving an average of 65% in all program courses attempted (minimum of 12 credits).

Prerequisites

Note that all prerequisites can be completed at Bishop's.

All our programs include two Introduction to Psychology prerequisites (PSY 101 and PSY 102). Our Majors/Honours programs also include an Introductory Biology (BIO 191/BIL 191 or BIO 194) prerequisite. These courses must be completed within the first three semesters of study. These prerequisites will be waived for students who have completed CEGEP courses in Psychology (Introductory Psychology and two other Psychology courses) and Human Biology. Our psychology – neuroscience program includes additional science prerequisites; these will be waived for CEGEP science students.

Special Requirements for Honours

To qualify for an Honours program, students must have a cumulative average of at least 75% in program courses. Students must also achieve a combined average of at least 75% in PSY 313 (Advanced Research Methods) and PMA 360 (Advanced Psychological Statistics). **This means that PSY 313 must be taken in the year before enrolling into the honours thesis course (PSY 499).** Eligible students will officially transfer into Honours after the acceptance of their Thesis proposal in the Fall term of their final year.

Psychology Programs

Please note that the complete list of courses to be taken within each program is outlined in the table on the next page.

B.A. – Psychology

18 courses or 54 credits

Prerequisites

PSY 101ab	Intro Psy. I
PSY 102ab	Intro Psy. II
BIO 191a / BIL 191	Intro Bio.

Core courses (8)

PSY 206a	Personality
PSY 213b	Research Methods
PMA 260a	Psychological Statistics
PBI 288b	Brain and Behavior
PSY 301	Abnormal Psychology
or	
PSY 311	Psychopathology
PSY 342a	History of Psy.
PMA 353	Psychometrics & Psychological Testing
PMA 360	Advanced Psychological Statistics

Block A – Physiological *(take at least 1)*

PBI 379a	Neuropsychology
PBI 380b	Psychopharmacology
PBI 388a	Brain Behavior II

Block B – Cognitive & Motivational *(take at least 3)*

PSY203a	Cognition Motiv. Sports
PBI 217b	Motivation Emotion
PSY 302a	Perception
PCS 305b	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block C – Developmental *(take at least 2)*

PSY 236a	Child Dev. I
PSY 237b	Child Dev. II
PSY 266	Adult Aging
PSY 290	Adolescence
PSY 333	Psy. Exceptional Child.
PSY 348	Social Development

Block D – Social *(take at least 2)*

PSY 245a	Social Psy. I
PSY 246b	Social Psy. II
PSY 293	Multicultural Psy.

Block E – Free options *(take at least 2 other Psychology courses)*

Honours – All programs *(18 additional credits)*

PSY 313a	Adv. Research Methods
PSY 443b	History Psy. Seminar
PMA 460b	Multivariate Stats
PSY 498a	Honours Seminar
PSY 499f	Honours Thesis (6 creds.)

Honours – Applied program only *(6 additional credits)*

PSY 441a	Adv. Applied Seminar
PSY 442b	Practicum

B.A. Psychology (Applied)

19 courses or 57 credits

Prerequisites

PSY 101ab	Intro Psy. I
PSY 102ab	Intro Psy. II
BIO 191a / BIL 191	Intro Bio.

Core courses (8)

PSY 206a	Personality
PSY 213b	Research Methods
PMA 260a	Psychological Statistics
PBI 288b	Brain and Behavior
PSY 301b	Abnormal Psychology
or	
PSY 311	Psychopathology
PSY 342a	History of Psy.
PMA 353	Psychometrics & Psychological Testing
PMA 360	Advanced Psychological Statistics

Block A – Physiological *(take at least 1)*

PBI 379a	Neuropsychology
PBI 380b	Psychopharmacology
PBI 388a	Brain Behavior II

Block B – Cognitive & Motivational *(take at least 2)*

PSY 203a	Cognition Motiv. Sports
PBI 217b	Motivation Emotion
PSY 302a	Perception
PCS 305b	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block C – Developmental *(take at least 2)*

PSY 236a	Child Dev. I
PSY 237b	Child Dev. II
PSY 266	Adult Aging
PSY 290	Adolescence
PSY 333	Psy. Exceptional Child.
PSY 348	Social Development

Block D – Social *(take at least 2)*

PSY 245a	Social Psy. I
PSY 246b	Social Psy. II
PSY 293	Multicultural Psy.

Block E – Intervention *(take at least 2)*

PSY 214a	Community Psy.
PSY 330	Ethics
PSY 336	Interviewing
PSY 337	Crisis intervention

Block F – Health & Wellbeing *(take at least 2)*

PSY 204b	Social Psychology Sports
PBI 327	Psy. of Nutrition
PBI 275a	Health Psy. I
PBI 276b	Health Psy. II
PSY 277	Physical and Mental Health
PBI 399	Psychology of Drug Addiction
PSY 477	Personality, Health & Well-Being

B.Sc. Psychology (Neuroscience)

18 courses or 54 credits

Prerequisites – Grade 12 and non-science CEGEP students

PSY 101ab	Intro Psy. I
PSY 102ab	Intro Psy. II
BIO 191a / BIL 191	Intro Bio.
CHM 191a / CHL 191	Gen. Chem I
CHM 192b / CHL 192	Gen. Chem II
MAT 198a	Calculus I
MAT 199b	Calculus II
PHY 193a / PHL 193	Physics I
PHY 194b / PHL 194	Physics II

Core courses – Psychology (8)

PSY 206a	Personality
PSY 213b	Research Methods
PMA 260a	Psychological Statistics
PBI 288b	Brain and Behavior
PSY 301	Abnormal Psychology
or	
PSY 311	Psychopathology
PSY 342a	History of Psy.
PMA 353	Psychometrics & Psychological Testing
PMA 360	Advanced Psychological Statistics

Core courses – Neuroscience (5)

BIO 201	Cellular Molecular Bio.
BIO 208 / BIL 208b	Genetics
PBI 379a	Neuropsychology
PBI 380b	Psychopharmacology
PBI 388a	Brain Behavior II

Block A – Cognitive science options *(take at least 2)*

PSY 302a	Perception
PCS 305b	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block B – Natural Science options *(take at least 3)*

CHM 111a / CHL 111	Organic Chem.
BIO 205a / BIL 205	Diversity of Life
BIO 336a / BIL336	Animal Physiol. I
BIO337b / BIL337	Animal Physiol. II
BCH313b / BCL313	Metabolism
BCH 382	-Biochem. & Toxicology
BIO 359a	Human Genetics
BCH 383a	Molecular Biology

Minor in Psychology

Any eight (8) Psychology courses (24 credits)

Certificate in Human Psychology

Any ten (10) Psychology courses (30 credits)

Major and Honours in Psychology

(54 and 72 credits)

This classic program is our most flexible and most popular. The Major includes 24 credits of Core Courses and 30 credits of Psychology options for a total of 54 credits. The Honours adds an additional 18 credits of Core Courses for a total of 72 credits.

Major or Honours in Psychology - Applied Concentration

(57 and 81 credits)

This program emphasizes the applied/clinical side of Psychology. The Major includes 24 credits of Core Courses and 33 credits of courses specific to the Applied concentration for a total of 57 credits. The Honours adds an additional 18 credits of Core Courses and an additional 6 credits of Honours courses specific to the Applied concentration for a total of 81 credits.

Major or Honours in Psychology - Neuroscience Concentration

(B.Sc.; 54 and 72 credits)

This program focuses on the physiological aspects of Psychology and the brain-behavior relationship. To complete the neuroscience program within three years, Quebec students should enter with a collegial diploma in science (D.E.C.), that includes Mathematics 201-NYA-05, 201-NYB-05, Physics 203-NYA-05, 203-NYB-05, Chemistry 202-NYA-05, 202-NYB-05, and Biology 101-NYA-05. Students entering from other CEGEP programs or from Grade 12 will be required to complete science prerequisites prior to undertaking the neuroscience major and will usually complete the degree in four years. The major includes 39 credits of core courses and 15 credits of Psychology and Science options for a total of 54 credits. The Honours adds an additional 18 credits for a total of 72 credits.

Minor in Psychology *(24 credits)*

The Minor involves completing any 8 courses in Psychology. This flexible and popular program has been joined with Majors/Honours in almost every discipline offered at Bishop's. The most popular and most useful combinations include, among others: Biology, Political Studies, Sociology, Business, Philosophy, English and Education.

Certificate in Human Psychology *(30 credits)*

This one-year program is designed for adult students. It has particular relevance for teachers, health or social workers, and managers. It involves taking 10 psychology courses that relate to human behavior.

COURSES

The following list includes courses which are normally offered by the department each year, as well as courses which are offered on a rotating basis. Those courses which are offered only irregularly are listed separately at the end of this section.

PSY 101a Introduction to Psychology I : Basic Processes 3-3-0

An introduction to the functioning and development of the basic cognitive processes: perception, learning, memory, thinking, intelligence and consciousness. Approaches and methods will also be discussed.

PSY 102b Introduction to Psychology II: Human Interactions 3-3-0

An introduction to motivation, emotion, and personality as factors in human functioning. Approaches, methodology, social psychology and abnormal psychology are also discussed.

PSY 203a Cognition and Motivation in Sport: Performance Enhancement 3-3-0

A systematic review of how individual factors influence and optimize sports performance. Major topics include introduction and research methods, personality, mood, motivation, learning and cognition. Both theory and application will be emphasized.

Students who have taken PSY 208 (Sports Psychology) cannot take this course for credit.

Prerequisite: PSY 101 or PSY 102

Corequisite: PSY 101 or PSY 102

PSY 204b The Social Psychology of Sport and Exercise 3-3-0

A systematic review of the social aspects and effects of sport and exercise. Major topics include introduction and research methods, audience effects, leadership, team cohesion, aggression in athletes and fans, bias in judging, and benefits and costs of sports and exercise participation.

Prerequisite: PSY 101 or PSY 102

Corequisite: PSY 101 or PSY 102

PSY 206a Personality 3-3-0

An examination of theories of personality based on the clinical approach, as illustrated by psychoanalytic and humanistic theories; and based on the psychometric and experimental approaches, as illustrated by trait and learning theories.

Students who have taken PSY 107 (Personality)or PSY 207 (Personality II) may not take this course for credits

Corequisite: PSY 101 or PSY 102

PSY 210 Psychology of the Couple 3-3-0

This course is a survey of research on the psychology of the couple. Topics treated include: psychology of the female and male; factors in partner choice; bonding and love; commitment and contract; stages of coupling; divorce and recommitment. Psychodynamic, behavioural and systemic approaches to couple therapy will be examined.

Prerequisite: PSY 101 and PSY 102

PSY 213b Research Methods 3-2-2

Scientific bases of psychological theory; experimental and non experimental research methods; data analysis; report writing; critical analysis of published articles. Class projects are conducted, statistically analyzed, and written up.

Students who have taken PSY113 (Research Methods I) cannot take this course for credit

Prerequisite: PMA 260a.

Corequisite: PMA 360b

PSY 214 Community Psychology 3-3-0

Community Psychology is the study and application of psychological solutions to community-based problems. Through an analysis of the reciprocal relationship between person and environment (clubs, churches, schools, neighborhood, larger culture) Community Psychology emphasizes action and interventions whose aim is to prevent problems in living, promote social-psychological competencies and improve people's well-being. This course introduces students to the ways in which research and science intersect with the practical aspects of working successfully with people in their communities. Topics include the background and history of the field, community research methods, empowerment of disenfranchised groups, social support, cultural diversity, prevention, program evaluation and development of community intervention strategies.

Prerequisite: PSY 101 AND PSY 102

PBI 217b Motivation and Emotion 3-3-0
An exploration of the underlying causes of human behavior. Topics include hunger and eating, sex and love, aggression, drug use/abuse and higher-level behaviors (e.g. creativity, attaining peak performance, goal setting, self-regulation). The role of emotions in guiding behavior will also be addressed.
Prerequisite: PSY 101

PSY 219 Psychology of Women 3-3-0
In this course, gender stereotypes and biases are exposed while rape myths are debunked and sexual orientation is demystified. Gender comparisons in cognitive abilities and in social and personality characteristics are discussed. Other topics of interest include women and work, love relationships, sexuality, women and physical health, psychological disorders, sexual harassment and assault as well as physical abuse. This course is a must for those who enjoy class discussions!
Students who have taken PSY 109 (Psychology of Women) cannot take this course for credit
Prerequisite: PSY 101 or PSY 102
Corequisite: PSY 101 or PSY 102

PSY 236a Child Development I 3-3-0
The foundations of child development. Topics include basic genetics, prenatal development, birth, physical development, perceptual development, early learning and the classic theories of cognitive and socioemotional development.
Prerequisite: PSY 101 or PSY 102

PSY 237b Child Development II 3-3-0
An in depth look at the cognitive and socioemotional development of infants and children. Topics include intelligence, memory and problem-solving skills, language and communication, development of the self, gender-role development, aggression, altruism, moral development and the influence of the family, school, peers and television on development.
Prerequisite: PSY 101 or PSY 102

PBI 241a Evolutionary Psychology 3-3-0
Evolutionary Psychology is the study of behavior founded within the framework of Darwin's Theory of Evolution through Natural Selection. The purpose of this course is to introduce the students to the principles of Evolutionary Psychology and to investigate the adaptive origins of many common behaviors such as cooperation, mating strategies, parenting, aggression and dominance.
Students who have taken PBI 141 (Evolutionary Psychology) cannot take this course for credit
Prerequisite: PSY 101

PSY 245a Social Psychology I 3-3-0
Methodology of social psychology; prejudice; sexism; social perception; attitude formation and attitude change; legal and clinical applications.
Prerequisite: PSY 101 or PSY 102
Corequisite: PSY 101 or PSY 102

PSY 246b Social Psychology II 3-3-0
Social motives, such as aggression, attraction and altruism; group processes and social interaction; conformity and leadership; social institutions; environmental psychology.
Prerequisite: PSY 101 or PSY 102
Corequisite: PSY 101 or PSY 102

PMA 260a Psychological Statistics 3-2-1
Basic descriptive and inferential statistics developed from a conceptual perspective. Topics include measures of central tendency and variability, normal distribution, probability, confidence intervals, sampling distributions, hypothesis testing, power analysis, z-tests, t-tests and chi-square.
Students who have taken PMA160 (Psychological Statistics I) cannot take this course for credit
Students who have taken PHY 101a may not take this course for credit

PSY 266b Adult Development and Aging 3-3-0
An examination of psychological development during adulthood and old age. Research findings on age related changes in memory, health issues, adjustment, coping styles, and stress will be covered. Case studies will be used to explore various applications in society.
Prerequisite: PSY 101 or PSY 102
Corequisite: PSY 101 or PSY 102

PBI 275a Health Psychology I 3-3-0
Introduction to health psychology and the biopsychosocial model of health. Topics include: obtaining care and following health advice, the causes and consequences of stress, coping with pain, cardiovascular disease, behavioural factors in cancer, plus current issues in health.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PBI 276b Health Psychology II 3-3-0
Selected topics in health psychology: methods of health research with emphasis on drug and cancer studies, chronic illness, preventing injuries, smoking tobacco, using alcohol and other drugs, diet and weight control, exercising, mental illness and health, death studies, future prospects.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PSY 277 Physical and Mental Health 3-3-0
This course will examine the mutual interaction between physical and mental health, using the biopsychosocial model as a conceptual framework. For example, depression as a factor in cardiovascular disease (and vice-versa), or the effect of diet upon behaviour disorders, will be explored with detailed attention to genetic, developmental, personality, lifestyle and social factors. Therapeutic interventions will also be covered, for example to compare the success of behavioural versus medical approaches in the treatment of depression. The course will include lectures and seminar presentations.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PBI 288b Brain and Behavior I 3-3-0
An introduction to physiological psychology and to the complex relationship between brain activity and human behavior. Topics include structure and function of the brain, the neuron, neurotransmitters, neuroscience research methods and the physiology of the sensory and motor systems.
Students who have taken PBI 128 (Physiological Bases of Behavior I) may not take this course for credit
Prerequisite : PSY 101

PSY 290b Adolescence 3-3-0
An examination of developmental issues in the adolescent period and related clinical phenomena: environmental influences (family, school, peers) and intra personal concerns (identity, sexuality, moral development); clinical conditions such as depression (suicide), eating disorders, and delinquency.
Prerequisite: PSY 101 and PSY 102

PSY 292 Psychology of Music 3-3-0
This introduction to the psychology of music will explore key music perception and cognition areas such as music and language, emotion and memory as well as the applied psychology of music in a range of social, health, educational and therapeutic contexts. The big questions in the field will be considered; such as the role of music in our evolutionary history, whether some of us are 'born musical' and others are not, whether music can make us smarter, or can encourage us to behave aggressively.
Prerequisite: PSY 101 and PSY 102

PSY 293 Multicultural Psychology 3-3-0
The place of culture in the evolution of psychology. Cultural similarities and differences in behaviour, thoughts, emotions, attitudes, motivations, mental and physical health, etc. Understanding that psychological principles can range from being universal to culture-specific.
Prerequisite: PSY 101 and PSY 102

PSY 298 Zen and the Brain 3-3-0
The interest in Eastern philosophy and religion in the West is not a new phenomenon, but careful scientific examination of the techniques linked to some Eastern traditions, such as meditation and mindfulness, as well as their increasing use in psychotherapy, is relatively new. In this course we will introduce the basis of Buddhist and Hindu thought and practice, and review critically the available literature on the neurophysiological and neuropsychological effects of different forms of meditation.
Pre or Corequisites: PSY 101, PSY 102 and PBI 288

PSY 301a Abnormal Psychology 3-3-0
An introduction to the experimental approaches, diagnoses, classifications, viewpoints, and the therapeutic techniques used in abnormal psychology. The interaction between genetic predisposition and environmental stressors in the etiology of abnormal behavior will be emphasized. Stress and anxiety disorders will be presented and discussed.
Students who have taken PSY 341 (Abnormal Psychology) my not take this course for credit.

PSY 302b Perception 3-3-0
Based on a rich array of perceptual demonstrations, this course provides a comprehensive overview of how our senses, mostly vision and audition, allow us to know and understand the world. Topics include physiology of the sensory systems, perceiving objects and faces, color, depth and motion perception, visual illusions, music perception, perceptual illusions and perceptual impairments.
Prerequisite: PSY 101 and PBI 288

PCS 305b Cognition 3-3-0
Cognitive processes: language, memory, concepts, heuristics, the nature of thought, reasoning, problem solving, creativity, and anomalous beliefs.
Students who have taken PCS 205 (Cognitive Psychology) cannot take this course for credit
Prerequisites: PSY 101 and PSY 102 and PBI288

PSY 311b Psychopathology 3-3-0
This course is a continuation of PSY301. Topics covered include mood, personality, somatoform, dissociative and eating disorders, disorders of childhood and adolescence, schizophrenia and sexual dysfunction.
Students who have taken PSY 341f (Abonormal Psychology) may not take this course for credit
Prerequisite: PSY 101, PSY 102 and PSY 206

PSY 313a Advanced Research Methods 3-2-2
Research methodology in the study of human behaviour. Formulation of the research proposal; presentation and discussion of results in APA format reports; factorial and correlational designs; computers in data analysis. Class and individual projects are conducted.
Students who have taken PSY215 (Research Methods II) cannot take this course for credit
Prerequisites: PSY 213b, PMA 260a and PMA 360b

PSY 325a Independent Studies I 3-0-0
Theoretical or experimental work conducted under the direct supervision of two faculty members. The project and grading scheme needs to be approved beforehand by the Psychology Department.
Prerequisite: PSY 101 and PSY 102

PSY 326b Independent Studies II 3-0-0
Theoretical or experimental work conducted under the direct supervision of two faculty members. The project and grading scheme needs to be approved beforehand by the Psychology Department.
Prerequisite: PSY 101 and PSY 102

PBI 327a Psychology of Nutrition 3-3-0
This course explores the many physiological, psychological and sociocultural factors that influence children and adults' food choice and preferences. The activity of eating is understood in its relation to physical and psychological health, body size and dissatisfaction, dieting, obesity, anorexia nervosa and bulimia nervosa.
Students who have taken PBI 227 (Psychology of Nutrition) cannot take this course for credit
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PSY 333a Psychology of Exceptional Children 3-3-0
A survey of various kinds of exceptionality in children, including intellectual disabilities, giftedness, speech and language differences, learning disabilities, hearing and vision impairments, behaviour disorders, health problems, and developmental disabilities.
Students who have taken PSY 233 (Psy. of Exceptional Children) cannot take this course for credit
Prerequisite: PSY 101 and PSY 102

PSY 336b Interviewing 3-3-0
Interviewing techniques are explored by surveying various theories of change (psychoanalytic, existential, feminist, person-centered, cognitive-behavioral, reality, and postmodern). Emphasis is placed on the acquisition of both theoretical knowledge and practical skills that have direct relevance in applied settings. Class discussions, role-playing, and use of video clips are pedagogical tools enjoyed by students.
Students who have taken PSY 230 (Interviewing) cannot take this course for credit
Prerequisites: PSY 101, PSY 102 and PSY 206
Co-requisite PMA 353a or permission of the instructor

PSY 337a Crisis Intervention 3-3-0
Engaging class discussions, guest speakers, role plays, videos and practice-based lectures provide a framework for understanding what constitutes a crisis, various types of crises and key elements of crisis assessment and intervention that are used in a variety of crisis situations. Specific crises examined include crises of lethality, conjugal violence, sexual assault, crises of loss and human-made disasters.
Students who have taken PSY 231 (Crisis Intervention) cannot take this course for credit
Prerequisites: PSY 101, PSY 102 and PSY 206

PSY 342a History of Psychology 3-3-0
An examination of the early conceptions of human nature that influenced psychology's development. The course is presented in two parts, the first examining the nature of history and the history of science. The second part explores the conception of humanity in ancient texts from Homer, Sophocles, Plato, Aristotle and Augustine.
Prerequisite: PSY 101, PSY 102. Open to those students entering their final undergraduate year

PSY 345 Family Therapy 3-3-0
A critical survey of major theories of family dynamics and family therapy, including psychoanalytic; existential, systemic, structural, and strategic approaches. The course also aims to further the student's understanding of his or her own family system through individual and group exercises.
Prerequisiote: PSY 101 and PSY 102

PSY 348 Social Development 3-3-0
An examination of the development of social relationships from childhood to adolescence, with a particular focus on peer relationships. This includes an examination of sociometrics, social-cognitive and emotional processes, bullying, morality, friendships and romantic relationships.
Pre or Corequisites: PSY 101 & 102 and one of PSY 236 or 237

PMA 353a Psychometrics and Psychological Testing 3-3-0
The psychometric properties of standard psychological tests: norms, reliability and validity. Critical examination of these properties for selected maximum and typical performance instruments.
Students who have taken PMA 223 (Psychometrics) or PSY 224 (Issues in Psychological Testing) cannot take this course for credit
Prerequisites: PSY 213b and PMA 260a

PMA 360b Advanced Psychological Statistics 3-3-0
Advanced inferential statistics developed from a conceptual perspective. Topics include one and two-way analysis of variance, repeated measures anova, fixed and random designs, post-hoc and apriori tests. Explorations will also include correlation, regression and their relationship to anova and use of SPSS in analysis.
Students who have taken PMA 161 (Psychological Statistics II) cannot take this course for credit
Prerequisite: PMA 260a, or the Business (BMA 140 or BMA 141) or Physics (PHY 101) equivalent.
Corequisite: PSY 213b

PSY 370a Learning and Memory 3-3-0
A seminar course examining theories of learning and memory. The seminars follow a historical sequence examining changes in our understanding of learning and memory. Topics include classical conditioning, behavioural, cognitive and gestalt approaches to learning and memory.
Students who have taken PSY 270 (Learning and Memory) cannot take this course for credit
Prerequisite : PSY 101 and PSY 102

PBI 379a Neuropsychology 3-3-0
Neuropsychology is the study of the relationship between brain structures and behaviour. In this course we will explore the neuroanatomical correlates of both normal and abnormal behaviors in humans. Among the topics to be discussed are the behavioural sequelae of head injury, mood disorders associated with regional trauma and epilepsy, sex differences in cerebral organization, cerebral asymmetries, language and aphasia and the various disorders of perception. Depending on the interests of the students, special topics include dyslexia, alexithymia, Alzheimer's disease, alcoholism and schizophrenia.
Students who have taken PBI 279 or BIO 279 (Neuropsychology) may not take this course for credit
Prerequisite: PSY 101, PBI 288b or permission of the instructor

PBI 380b Psychopharmacology 3-3-0
This course is designed to introduce students in psychology and the natural sciences to the field of psychopharmacology. Emphasis will be placed on the relationships between psychoactive drugs, their mechanisms of action in the nervous system, and human behaviour. Following an analysis of the principles of pharmacology and pharmamacokinetics, as well as the mechanisms of drug tolerance and dependence, the cognitive, emotional and behavioural aspects of specific classes of drugs will be examined. These classes of drugs will include sedatives, hypnotics; stimulants; narcotics; psychotomimetics, psychedelics and hallucinogens.
Students who have taken PBI 280 or BIO 280 (Psychopharmacology) may not take this course for credit
Prerequisite: PSY 101, PBI 288b or permission of the instructor

PBI 388a Brain and Behavior II 3-3-0
The physiological bases of motivated behavior (sleep, sex, hunger and thirst), emotions, learning/memory and language. The focus is on normal physiology but some aspects of abnormal physiology (e.g. amnesia, anxiety, schizophrenia) will be addressed.
Students who have taken PBI 228 (Physiological Bases of Behavior II) cannot take this course for credit
Prerequisite: PBI 288b or permission of the instructor

PBI 398 Neuroscience Seminar 3-3-0
This course will be taught as a series of student-led seminars covering a wide range of topics including molecular, cellular, behavioral, cognitive and clinical neuroscience, as well as new developments in psychopharmacology and neuroendocrinology. Course content will vary from year to year to encompass the most recent developments in the field of neuroscience.
Prerequisites: PSY 101, PSY 102, PBI 288, & PBI 388

PBI 399 Psychology of Drug Addiction 3-3-0
Despites decades of intense research, development of new therapeutic approaches, and public advertisement campaigns (e.g. "JUST SAY NO", the problem of drug abuse does not want to go away (and in fact is on the rise in the selected demographic groups such as women, adolescents and children). During this course we will examine different classes of addictive substances; discuss various neurobiological, psychological and sociocultural factors implicated in the initiation and development of dependence; as well as evaluate critically the available therapies and interventions for treatment of drug addiction.
Pre or Corequisites: PSY 101, PSY 102 and PBI 288

PSY 441a Advanced Applied Seminar 3-1-2
As a link between Interviewing (PSY336b) and Applied Practicum (PSY442b), this course is taught as a series of student-led seminars on various clinical topics. Vigorous class debates, meaningful exchanges with guest speakers (from the community at large) and the opportunity to learn and apply basic interviewing skills with video tape feedback are all enriching aspects of this course. Students enrolled in a major program are welcome, providing that they have the prerequisites.
Prerequisites: PSY 101, PSY 102, PSY 206 and PSY 336

PSY 442b Practicum 3-0-3
Aimed at introducing students to psychology's applied field while sensitizing them to its stakes, this course is completely practical and offers experiential learning opportunities. Students spend 6hrs/week under close supervision in one of a number of applied settings. Field placements are possible in hospital and school settings, various community organizations, senior citizens' homes, life skills development centres, women's centre, etc., and are assigned in accordance with students' competencies and interests.
Prerequisite: PSY 441

PSY 443b History of Psychology Seminar 3-3-0
A seminar course that examines the effects the scientific revolution on our conception of mind and psychology. The seminars are based on the writings of the Rationalists (Descartes, Spinoza, Leibniz), Empiricists (Locke, Berkeley, Hume) and those that reflect the emergence of Evolutionary thinking and its influences on our conceptions of mind/brain, consciousness and the nature of human science.
Students who have taken PSY 343 (History of Psychology II) cannot take this course for credit
Prerequisite: PSY 342

PMA 460b Multivariate Statistics 3-3-0
An examination of multivariate statistical approaches to research. Topics include multiple correlation, regression, partial & semipartial analysis, stepwise regression, statistical control, hierarchical modeling, multiple regression with categorical and continuous variables, analysis of covariance, and multivariate analysis of variance.
Students who have taken PMA 261 (Multivariate Statistics) cannot take this course for credit
Prerequisite: PMA 360

PSY 462 Qualitative Methods in Psychology 3-3-0
This course provides students a conceptual understanding of qualitative research and their application in psychology. The course introduces major concepts and terms, and different qualitative methods including case studies, in-depth interview, participant observation, life histories (narratives) and ethnographies. It focuses on developing a theoretical understanding of qualitative methodology.
Pre or Corequisites: PSY 101 & 102

PSY 477 Personality, Health and Well -being 3-3-0
An advanced seminar that undertakes a critical analysis of historical and contemporary theoretical perspectives on the role personality plays in physical and psychological well-being. General topics may include the contribution of personality to physical health and illness, the role of personality in stress and coping, the links among personality, health, and well-being across the adult lifespan, the role of personality in health and well-being in the context of personal relationships, and issues related to the assessment of personality and well-being.
Prerequisite: PBI 275 or PBI 276

PSY 498a Honours Seminar 3-3-0
This seminar aims at exploring cutting-edge issues in Psychological Science. Selected topics from these areas are presented and critically discussed. The course will also guide students as they get their Honours Thesis under way and address practical issues such as applications to graduate school, scholarship applications, GREs and career planning.
Students who have taken PSY449 (Honours Seminar: Advanced Topics) cannot take this course for credit
Prerequisite: Only open to Honours students
Co-requisite: PSY 499f

PSY 499f Honours Thesis 6-0-0
Under the guidance of two faculty advisors, the student will formulate a proposal for original research involving the collection of data, undertake the research, and report it both as a public talk and in the form of a thesis conforming to the publication style of the American Psychological Association.
Students who have taken PSY 450 (Dissertation) cannot take this course for credit
Prerequisite: Only open to Honours students;
Co-requisite: PSY 498
PMA 460b is an additional prerequisite for projects involving multivariate research.

Cognate Courses

These courses may count for Psychology credit.

BHR 221a Organizational Behavior 3-3-0
EDU 301a Educational Psychology 3-3-0
PHI 252b Philosophy of Mind 3-3-0
REL 148ab Psychology of Religion 3-3-0

Courses offered on an irregular basis.

PSY 222 Group Dynamics 3-3-0
This course introduces students to the principles and practices of group behavior, emphasizing dynamic processes (norms, roles, relations, development, social influence) which form a basis for group therapy as a branch of psychotherapy. Background, founders and key influences, contexts of use, techniques, methodology and current trends in group therapy will be discussed.
Prerequisite: PSY 101 and PSY 102

PSY 285 Psychology of Reading and Reading Disability 3-3-0
The aim of this course is to consider the psychological processes involved when we read. In particular, the skills that are acquired, the mechanisms involved, and the abilities that are essential will be examined. Why some people fail to acquire reading skills will also be examined. Answers to this question will focus on theoretical approaches to reading disability, and to the question of why some methods of remediation are successful.
Prerequisite: PSY 101 and PSY 102

PSY 309 Industrial and Organizational Psychology 3-3-0
This course introduces students to theories and applications of psychology to human resource concerns in organizations. Topics include: Personnel recruitment, selection, training and performance appraisal; motivation; work attitudes; leadership; group behaviour; and other special topics (e.g., work related stress, applied ethics, and organizational conflict)
Students who have taken BHR 221cannot take this course for credit
Prerequisite: PSY 101 and PSY 102

PBI 320 Physiology and Pharmacology of Aging 3-3-0
The major physiological systems will be reviewed, with emphasis on how these systems change during the aging process and how these changes affect the individual's everyday functioning. Topics will include the cardiovascular system; respiratory system; metabolic regulation, digestion and absorption; and electrolyte and mineralocorticoid regulation. A review of basic pharmacological principles and mechanisms of action will follow this. Finally, we will discuss how the aging process interacts with various types of medications most frequently prescribed to elderly people, and some common idiosyncratic reactions seen in the elderly. Also, the special precautions which must be observed in prescribing and administering drugs to the elderly will be outline.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PSY 328 Occupational Health Psychology 3-3-0
This course examines the psychology related to developing and improving the physical and psychological well-being of individuals at work. Occupational health psychology is a developing field that uses psychology's particular understanding of individuals in combination with the expertise from other fields such as medicine, public health and engineering to help achieve safe, healthy and enriched work. Topics include a review of the types of mental health and well-being issues at work; the psychological approaches to occupational stress, health and safety; and an overview of programs and methods used to enhance well-being at work.
Prerequisite: PSY 101 and PSY 102

PSY 330 Psychology and Ethics 3-3-0
A wonderful way to learn how to think ethically in several areas of psychology. Students learn about the importance of fundamental ethical principles, values, theoretical and practical models of ethical decision-making and legal considerations, while engaged in the comparison of relevant ethics codes (with particular emphasis on the CPA code of ethics). Specialized topics include confidentiality, multiple relationships, the ethics of teaching, the ethics of counselling, the ethics of assessment, research ethics, and ethics in forensic settings. Class discussions are part and parcel of this course.
Prerequisite: PSY 101 and PSY 102

PSY 350 Environmental Psychology 3-3-0
Influence of the physical and cultural environment on behaviour, including factors such as heat, noise, crowding, traffic, buildings and urban design. Costs and benefits of city and rural lifeswtyles. Technology and the working environment. Population, resources and environment.
Prerequisite: PSY 101 and PSY 102

PSY 356 Forensic Psychology 3-3-0
This course provides broad overview of the issues and processes of Forensic Psychology. Topics include social/cognitive topics such as eyewitness testimony, jury decision making, and police procedures as well as abnormal/clinical topics such as the meaning of being unfit to stand trial, mentally disordered offenders and psychopathy.
Prerequisite: PSY 101 and PSY 102

PBI 361 The Psychology of Sexuality 3-3-0
Various aspects of human sexuality from a psychological perspective. Includes the following topics: sexuality in childhood, adolescence, and early through late adulthood; sex differences; androgyny; transsexualism; sexual dysfunction and sex therapy; sexuality in the chronically ill and disabled; homosexuality and bisexuality; historical and cross cultural sexual attitudes and practices.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102

PSY 367 Counselling of Older Adults 3-3-0
This course will introduce the student to the basic principles of counselling aged clients. The primary focus will be on the examination of the most common issues such as: various types of loss, remarriage, intergenerational conflicts, alcoholism, isolation, suicide, elderly abuse, as well as the intervention strategies used.
Prerequisite: PSY 101 and PSY 102

PSY 386 Psychology of Language 3-3-0
The aim of this course is to provide students with a broad introduction to psychological phenomena in language acquisition and use. The structure of language and speech will be described briefly. Emphasis will be placed on a number of topics, including; language development, perception of language, word meaning and semantic memory, syntax and discourse processing, language production and conversational interaction, cultural influences and bilingualism, and language errors and disorders.
Prerequisite: PSY 101 and PSY 102

PSY 408 Psychology of Consciousness 3-3-0
A critical examination of consciousness in scientific psychology. Major topics are the nature of consciousness (e.g., consciousness and brain, states of consciousness), the methodology for studying consciousness (e.g., introspection), and the function of conscious experience (e.g., free will, conscious processing in cognition).
Prerequisite: PSY 101 and PSY 102

Sociology

The Department of Sociology provides students with theoretical and methodological tools and substantive insights which can assist them in understanding social life, social organization, and action. The program is designed to provide students with a broad intellectual and sociological background which will help prepare them for a variety of careers and for advanced study at graduate school. The small size of our program and the dedication of our faculty, allow us to provide personal attention to students and extensive access to faculty. Through required courses and study concentrations, students are given substantial flexibility in meeting individual intellectual pursuits and preparation for satisfying employment after university. We offer a minor, major or honours in Sociology as well as five programs that allow students to concentrate their studies (see down). Students are encouraged to participate in the Experiential Learning program which is linked to their academic field of studies and involves course work and placement in an organization.

The subject matter of our courses ranges widely from theoretical to applied study and our professors employ diverse pedagogies to facilitate student learning. The department has particular strengths of faculty expertise in globalization, criminology, aging, health, family, media, the arts, communications, culture, classical and contemporary theory, deviance, community, Canadian and Quebec societies, qualitative and quantitative methods of research, political sociology, sociology of organizations, race and ethnicity, sex and gender relations, social movements, technology, urban sociology, policy, poverty, homelessness, indigenous cultures, law and social policy.

CAREERS IN SOCIOLOGY

Recent graduates of the program have embarked on many careers including: management and business; education; media, communications, public relations and journalism; policing and corrections; health and social services; a wide variety of careers in both the private and public sector; graduate degrees in Sociology, and related disciplines and in law and other professional schools. To view an extensive list of career options and to contact graduates of our program please consult our departmental website at:

http://www.ubishops.ca/ccc/div/soc/soc/

PROGRAM SUMMARY TABLE

SOCIOLOGY MAJOR
(B.A. Sociology)
42 credits + ILT 104

Required courses:
19 credits, or 6 classes + ILT 104

SOC 101	Introduction
SOC 102	Quebec Society
SOC 110	Research Methods
SOC 111	Data Collection
ILT 104	(lab)
SOC 221	Modern Soc. I
SOC 222	Modern Soc. II

Elective Courses
24 credits or 8 classes
Choose 8 other sociology courses,
Or choose specific courses to focus on one of the following 5 concentrations:

A. Media, Technology and Contemporary Studies

B. Global Studies and Empire

C. Gender, Diversity and Equity Studies

D. Family, Health and Community

E. Criminology, Law and Social Policy

Sociology Major

Concentration A.
Media Technology and Contemporary Studies

Required Courses
30 credits or 10 classes
Plus ILT 104

All of the courses required for the major plus:

SOC 105	Media and Society I
SOC 315	Political Sociology in the Digital Era
SOC 290	Contemporary theory

And 1 of:

SOC 293	Visual Sociology
SOC 320	Knowledge
SOC 321	Soc. of Technology

Elective Courses:
12 credits or 4 courses

Four classes from List A (following this table)

Sociology Major

Concentration B.
Global Studies and Empire

Required Courses:
30 credits or 10 classes
plus ILT 104

All of the courses required for the major plus:

SOC 190	Intro to Post-colonial
SOC 296	Globalism and Culture
SOC 309	Colonization & Decol.
SOC 396	Post Colonial Theory

Elective courses
12 credits or 4 classes:

Four classes from list B (following this table)

Sociology Major

Concentration C.
Gender, Diversity and Equity Studies

Required courses:
30 credits or 10 classes,
Plus ILT 104

All of the courses required for the major plus:

SOC 129	Sex and Gender
SOC 245	Race and Ethnicity
WOM 101	Intro.to Women's Studies
WOM 201	Women and Feminism in Canada

Elective Courses:
12 credits or 4 courses

Pick four from list C (following this table)

Sociology Major

Concentration D.
Family, Health and Community

Required Courses:
30 credits or 10 classes,
Plus ILT 104

All of the courses required for the major plus:

SOC 205	Family I
SOC 214	Aging
SOC 260	Community
SOC 307	Sociology of Health

Elective courses
12 credits or four courses

Pick four classes from List D (following this table)

B.A. Sociology

Concentration E.
Criminology, Law and Social Policy

Required Courses:
30 credits or 10 classes,
plus ILT 104

All of the courses required for the major plus:

SOC 208	Criminology
SOC 230	Deviance I
SOC 292	Social Policy
SOC 307	Sociology of Health

Elective courses*:*
12 credits or 4 classes

Four classes from list E (following this table)

HONOURS SOCIOLOGY
61 credits or 20 courses and ILT 104

Required Courses

All the requirements of the Sociology Major plus:

SOC 290	Contemp.Theory
SOC 311	Quant. Tools
SOC 402	Honours I
SOC 404	Honours II

And one of:

SOC 301	Aspects of Social Inquiry
SOC 315	Political Soc. in the Digital Era
SOC 320	Knowledge
SOC 322	Urban Sociology
SOC 340	Women, Theory and Ideology
SOC 395	Adv. Social Sustainability
SOC 396	Post Colonial Theory

There is an optional 6-credit honours thesis

HONOURS SOCIOLOGY,

CONCENTRATION MEDIA, TECHNOLOGY AND CONTEMPORARY STUDIES
61 Credits or 20 courses plus ILT 104

Required Courses

Meet the requirements for the Major Sociology in this concentration, plus:

SOC 290	Contemp.Theory
SOC 311	Quant. Tools
SOC 402	Honours I
SOC 404	Honours II

And one of:
SOC 395 Adv. Social Sustainability
SOC 320 Knowledge
SOC 321 Soc. of Technology

plus

one more elective from list A

And one additional SOC course

There is an optional 6-credit Honours thesis

HONOURS SOCIOLOGY

CONCENTRATION GLOBAL STUDIES AND EMPIRE
61 credits or 20 courses plus ILT104

Required Courses

Meet the requirements for the Sociology Major in this concentration, plus:
SOC 290 Contemp.Theory
SOC 311 Quant. Tools
SOC 402 Honours I
SOC 404 Honours II

And

1 more elective from List B

and 1 additional course in Sociology

There is an optional 6-credit honours thesis

HONOURS SOCIOLOGY

CONCENTRATION GENDER, DIVERSITY AND EQUITY STUDIES

Required Courses
Meet the requirements for the Sociology Major in this concentration Studies plus:
SOC 290 Contemp.Theory
SOC 311 Quant. Tools
SOC 402 Honours I
SOC 404 Honours II
And
WOM 305 Women and Feminism Selected Topics

1 more elective from list C

And one additional SOC course

There is an optional 6-credit honours thesis

HONOURS SOCIOLOGY

CONCENTRATION FAMILY, HEALTH AND COMMUNITY

Required Courses

Meet the requirements of the Major Sociology in this concentration plus:
SOC 290 Contemp.Theory
SOC 311 Quant. Tools
SOC 402 Honours I
SOC 404 Honours II

Plus
SOC 305 Family II

One more elective from list D

And one additional SOC course

There is an optional 6 credit honours thesis

HONOURS SOCIOLOGY

CONCENTRATION CRIMINOLOGY LAW AND
61 Credits or 20 courses plus ILT 104

Required Courses

Meet the requirements for the Sociology Major in this concentration, plus:

One of:
SOC 235 Women and the Penal System
SOC 231 Deviance II

one more elective from List E

and one additional SOC course

There is an optional 6-credit honours thesis

MINOR IN SOCIOLOGY
24 Credits
SOC 101
And any 7 other courses in Sociology

MINOR IN CRIMINOLOGY
24 credits or 8 courses

Required Courses:
SOC 208 Criminology

Two of:
SOC 110 Research Methodology
SOC 111 Data Collection
SOC 311 Quantitative Tools
PMA 160 Psych Statistics I
PMA 260 Psych Statistics

Five of:
SOC 101 Introduction to SOC
SOC 102 Quebec Society I
SOC 207 North American First Nations
SOC 230 Deviance I
SOC 235 Women in the Penal System
SOC 245 Race and Ethnicity
WOM 120 Women & the Law
SOC 315 Political Soc. in the Digital Era
SOC 298 Social Problems
SOC 331 Deviance II
POL 314 Law, Politics & Canadian Society
ECO 126 Economics of Crime and Criminal Justice

MINOR IN GERONTOLOGY
24 credits or 8 courses+ ILT 104

Required Courses
SOC 110 Research Methodology, including LAB ILT 104
SOC 111 Data Collection
SOC 214 Aging
PSY 266 Adult Development and Aging

Electives
12 credits or 4 classes of the following:
BHR 221 Organizational Behaviour
EDU 320 Education and Aging
GRN 300 Directed Independent Study
PSY 367 Counselling of Older Adults
SOC 111 Data Collection
SOC 205 Family I
SOC 215 Culture, Ethnicity and Aging
SOC 217 Social Policy of Aging
SOC 260 Community
SOC 280 Interpersonal Communication
SOC 305 Family II
SOC 361 Ethnographics

MINOR IN GENDER, DIVERSITY, EQUITY STUDIES
24 credits

Required
WOM 101 Introduction to Women's Studies

Electives
21 credits or 7 other courses from the Gender, Diversity, Equity Studies Concentration

CERTIFICATE IN GERONTOLOGY

30 credits or 10 courses

Required Courses:

24 credits or 8 courses

SOC 214 Aging
PSY 266 Adult Development and Aging
BHR 221 Organizational Behaviour
SOC 110 Research Methodology
PBI 320 Physiology and Pharmacology of Aging
PSY 367 Counselling of Older Adults
GRN 300 Selected Topics in Aging
EDU 320 Education and Aging

Electives:

6 credits or two classes from:

SOC 217 Social Policy of Aging
SOC 215 Culture, Ethnicity and Aging
SOC 260 Community

CERTIFICATE IN GENDER, DIVERSITY & EQUITY STUDIES

30 credits or 10 courses

Required Course

3 credits

WOM 101ab Introduction to Women's Studies

Electives:

27 credits or 9 courses from:

WOM 120 Women & the Law
WOM 201 Women and Feminism in Canada
WOM 301 Directed Independent Study
WOM 305 Women and Feminism: Selected Topics
WOM 230 / DRA 230 Women in Performance
SOC 129 Sex and Gender
SOC 205 Family I
SOC 223 Women and Global Inequality
SOC 229 Communication: Gender and Culture
SOC 235 Women and the Penal System
SOC 241 Cinema
SOC 305 Family II: Selected Topics
SOC 340 Women: Theory and Ideology
CLA 250 Sex and Gender in the Ancient World
CLA 350 The Goddess: History, Cult and Myth
DRA 202 Contemporary American Drama
DRA 203 Contemporary European Drama
DRA 273 Women Dramatists
DRA 212 Theatre & the State
ENG 115 Women Writers before 1900
ENG 239 Feminist Literary Theory
ENG 275 The Contemporary Canadian Novel: "The Myths Are My Reality"
ENG 334 Restoration and Eighteenth-Century Drama: Sex, Politics and Intrigue
FIH 250 Women in Art
FRA 263 De la féminité au féminisme
FRA 284 Littérature et condition des femmes au Québec
HIST 331 Women in 19th and 20th Century Canada
HIST 380 Women in British History
PSY 219 Psychology of Women
PSY 123 Multicultural Psychology
PSY 231 Crisis Intervention
PBI 361 The Psychology of Sexuality
PSY 345 Family Dynamics
REL 204 Women in Religion
REL 207 Sex and Religion

**Other courses may be taken for group 2 credit, with the approval of the coordinator of the Women's Studies section of Sociology.*

List A
Elective courses for the Honours or Major / Concentration in Media, Technology, and Contemporary Studies:

SOC 100 Sociological Imagination
SOC 320 or SOC 321 (whichever one was not taken as a requirement)
SOC 241 Cinema
SOC 245 Race and Ethnicity
SOC 291 Sociology of Art
SOC 295 Sustainable Societies
SOC 298 Social Problems
SOC 396 Post Colonial Theory
WOM 101 Introduction to Women's Studies
BIO 138 The Genetics Revolution
CLA 250 Sex and Gender in the Ancient World
CLA 350 The Goddess: History, Cult and Myth
CS 102 Essentials of Computing on the PC for Non-Scientists
DRA 170 Introduction to Film
DRA 202 Contemporary American Drama
DRA 203 Contemporary European Drama
DRA 230 Women in Performance
DRA 273 Women Dramatists
DRA 300 Contemporary Theatre Practice
DRA 301 Contemporary Dramatic Theory
DRA 319 Film Criticism and Theory
DRA 322 Topics in Shakespeare
ELL 200 Experiential Learning Lab
ELP 300 Experiential Learning Placement
ENG 102 Approaches to Media Studies
ENG 211 Cultural Spaces of Childhood
ENG 233 The History of Literary Theory
ENG 234 Contemporary Literary Theory
ENG 235 Cultural Studies: History, Theory and Practice
ENG 236 Popular Culture
ENG 287 Image and Communication
ENG 291 Film Theory
FIH 108 History of Photography
FIH 223 Art and Art Criticism in France
FIN 235 Museology
FIH 250 Women in Art
FIH 310 Current Issues in the Theory and Criticism of Art
FRA 181 Histoire socio-culturelle du Québec I
FRA 182 Histoire socio-culturelle du Québec II
FRA 261 Le Théâtre du XVII-XIX siècle
FRA 283 Théâtre québécois
FRA 285 Romain québécois contemporain
FRA 384 Poésie et chanson du Québec
HIS 371 A History of Communications
MUS 104 History and Analysis of Jazz 1945-Present
MUS 110 The Art of Listening I
PHI 170 Introduction to the Philosophy of Being
PHI 246 The Philosophy of Art
PHI 247 Philosophy and Film
PHI 364 Post Modernism
POL 221 Political Communication and Rhetoric
POL 222 Politics and the Arts
POL 420 Modern Political Thought
POL 421 Advanced Political Thought

List B
Elective courses for the Honours or Major / Concentration in Global Studies and Empire:

SOC 107 Canadian First Nations
SOC 202 Directed Independent Study I
SOC 203 Directed Independent Study II
SOC 207 North American First Nations
SOC 225 Quebec Society II
SOC 229 Communication, Gender and Culture
SOC 241 Cinema
SOC 245 Race and Ethnicity
SOC 250 Collective Behaviour
SOC 290 Contemporary Theory
SOC 291 / FIN 292 Sociology of Art
SOC 293 Visual Sociology
SOC 294 Sociology of Tourism
SOC 302 Directed Independent Study III
SOC 303 Directed Independent Study IV
SOC 315 Political Sociology in the Digital Era
SOC 320 Knowledge (Required of Honours)
WOM 101 Introduction to Women's Studies
WOM 305 Women and Feminism: Selected Topics
ELL 200 Experiential Learning Lab
ELP 300 Experiential Learning Placement
ENG 123 Introduction to Indigenous Literature in Canada
ENG 228 Introduction to Post-Colonial Literature
ENG 358 Approaches to Indigenous Literacy Culture in Canada
ENG 375 Colonial Narratives
HIS 272 History of Modern India
HIS 276 A History of Modern Africa
HIS 281 History of Pre-Colonial Africa
HIS 328 First Nations/Settler Relations in Canada
HIS 357 Survey of the African American Experience, 1619 to 1896
HIS 364 European Imperialism, 1870 - 1918
HIS 370 The Americas: A Comparative Colonial History
HIS 384 Memory,truth and reconciliation in the developing world
POL 140 Introduction to International Relations
POL 234 Politics of Africa
POL 240 International Political Economy
POL 242 International Organizations
REL 101 Eastern Religions
REL 124 Hinduism: The Many Faces of the Divine
REL 125 Buddhism: The Middle Way
REL 127 Islam: Submission to Allah
REL 149 Sociology of Religion

List C

Elective courses for the Honours or Major / Concentration in Gender, Diversity and Equity Studies:

SOC105	Media and Society I
SOC 202	Directed Independent Study I
SOC 203	Directed Independent Study II
SOC 205	Family I
SOC 207	North American First Nations
SOC 214	Aging
SOC 215	Culture, Ethnicity and Aging
SOC 217	Social Policy of Aging
SOC 229	Communication, Gender and Culture
SOC 223	Women and Global Inequality
SOC 235	Women and the Penal System
SOC 245	Race and Ethnicity
SOC 250	Collective Behaviour
SOC 290	Contemporary Theory
SOC 292	Social Policy
SOC 294	Sociology of Tourism
SOC 299	Sociology of Education
SOC 302	Directed Independent Study III
SOC 303	Directed Independent Study IV
SOC 305	Family II: Selected Topics
SOC 307	Sociology of Health
SOC 320	Knowledge
SOC 322	Urban Sociology
SOC 340	Women, Theory and Ideology
WOM 120	Women and The Law
WOM 301	Directed Independent Study
WOM 305	Women and Feminism: Selected Topics *(see requirements for Honours in this concentration)*
CLA 250	Sex and Gender in the Ancient World
CLA 350	The Goddess: History, Cult and Myth
DRA 202	Contemporary American Drama
DRA 203	Contemporary European Drama
DRA 212	Theatre and the State
DRA 273	Women Dramatists
DRA 237	Theatre Lab
DRA 230	Women in Performance
ELL 200	Experiential Learning Lab
ELP 300	Experiential Learning Placement
ENG 115	Women Writers Before 1900
ENG 239	Feminist Literary Theory
ENG 275	The Contemporary Canadian Novel
FIH 250	Women in Art
FRA 263	De la féminité au féminisme
FRA 284	Littérature et condition des femmes au Québec
HIS 331	Women in 19th and 20th Century Canada
HIS 380	Women in Modern British History
POL 242	International Organizations: Principles, Institutions and Politics
POL 246	Gender and Politics
PSY 210	Psychology of the Couple
PSY 219	Psychology of Women
PSY 293	Multicultural Psychology
PSY 337	Crisis Intervention
PSY 345	Family Dynamics
REL 204	Women in Religion

List D

Elective c Elective courses for Honours or Major / Concentration in Family, Health and Community

SOC 107	Canadian First Nations
SOC 129	Sociology of Sex and Gender
SOC 155	Sociology of Sport
SOC 202	Directed Independent Study l
SOC 203	Directed Independent Study ll
SOC 209	Young Offenders
SOC 215	Culture, Ethnicity and Aging
SOC 217	Social Policy of Aging
SOC 219	Sociology of the Body
SOC 220	Work and Leisure
SOC 223	Women and Global Inequality
SOC 229	Communications: Gender and Culture
SOC 235	Women and the Penal System
SOC 245	Race and Ethnicity
SOC 280	Interpersonal Communications
SOC 298	Social Problems
SOC 299	Sociology of Education
SOC 292	Social Policy
SOC 308	Formal Organization
SOC 302	Directed Independent Study lll
SOC 303	Directed Indpendent Study lV
SOC 322	Urban Sociology
SOC 340	Women: Theory and Ideology
SOC 361	Ethnographics
WOM 101	Introduction to Women's Studies
WOM 120	Women and the Law
WOM 201	Women and Feminism in Canada
WOM 305	Women and Feminism: Selected Topics
WOM 301	Directed Independent Study
ELL 200	Experiential Learning Lab
ELP 300	Experiential Learning Placement
ENG 210	History of Children's Literature
GRN 300	Selected Topics in Aging
HIS 368	The Young in Western Society
PBI 320	Physiology and Pharmacology of Aging
PBI 361	The Psychology of Sexuality
PSY 210	Psychology of the Couple
PSY 219	Psychology of Women
PSY 236	Child Development I
PSY 237	Child Development II
PSY 266	Adult Development and Aging
PSY 290	Adolescence
PSY 337	Crisis Intervention
PSY 367	Counselling of Older Adults
PSY 345	Family Dynamics

List E
Courses for the Honours or Major / Concentration in Criminology, Law and Social Policy :

SOC 105	Media and Society I
SOC 107	Canadian First Nations
SOC 202	Directed Independent Study I
SOC 203	Directed Independent Study II
SOC 205	Family I
SOC 209	Young Offenders
SOC 214	Aging
SOC 215	Culture, Ethnicity and Aging
SOC 217	Social Policy of Aging
SOC 220	Work and Leisure
SOC 235	Women and the Penal System *(see requirements for Honours in this concentration)*
SOC 245	Race and Ethnicity
SOC 250	Collective Behaviour
SOC 260	Community
SOC 292	Social Policy
SOC 298	Social Problems
SOC 299	Sociology of Education
SOC 281	Communications Methods
SOC 302	Directed Independent Study III
SOC 303	Directed Independent Study IV
SOC 305	Family II: Selected Topics
SOC 308	Formal Organization
SOC 311	-Quantitative Tools for Social Research *(see requirements for Honours in this concentration)*
SOC 315	Political Sociology in the Digital Era
SOC 321	Sociology of Technology
SOC 322	Urban Sociology
SOC 331	-Deviance II: Selected Topics *(see requirements for Honours in this concentration)*
SOC 340	Women: Theory and Ideology
SOC 390	Social Justice and Contemporary Theory
WOM 120	Women and The Law
WOM 101	Introduction to Women's Studies
ECO 126	Economics of Crime and Criminal Justice
ELL 200	Experiential Learning Lab
ELP 300	Experiential Learning Placement
ESG 350	Environmental Justice
PHI 140	Introduction to Ethics
PMA 160	Psychological Statistics I
PMA 260	Psychological Statistics
POL 173	US Government and Public Policy
POL 314	Law, Politics and Canadian Society
POL 345	Introduction to Public International Law
PSY 356	Forensic Psychology

THE SOCIOLOGY PROGRAM GUIDELINES:

All majors and Honours in Sociology (with or without concentration) must complete the lab course ILT 104: Information retrieval and Evaluation Skills for the Social Sciences.

The MAJOR in Sociology (without concentration): all new students enter the department with a major in Sociology and are encouraged by the end of their first year to consider at least one area of concentration. Students are not "pushed" into concentrations and are also encouraged to take a second Major or minor(s) from other departments.

Majors and Honours in Sociology should complete these six required courses in their first two years. Majors seriously considering graduate school should complete an Honours in Sociology.

During the first year, students should complete SOC 101 and SOC 110 in the Fall term, during the Winter term of the first year, students should complete SOC 102 and SOC 111.

The remaining 24 credits of the Major are **electives** and may be chosen from any SOC course listed. The student may request up to 6 credits from other disciplines be considered (by the Chair) for **cognate credit** in the Major or Honours in Sociology. Any student who wishes **exemption** from a requirement should submit a request and relevant documentation (course outlines) to the Department Chair and the professor of the course before registration is completed.

The Sociology Major with a Concentration

The major in Sociology with any of the five concentrations consists of 42 credits, plus ILT 104.

Most of the elective courses for each of the concentrations are offered on a rotation rather than every year so you are advised to watch for them in the timetable and register for them when they are available.

The HONOURS in Sociology

The HONOURS in Sociology (without concentration)

In the final year of the Honours Program (Year 3 or 4, whichever is last), students are required to complete SOC 402 (Honours I: Special Topics) and SOC 404 (Honours II: Research Strategies). The **Thesis** is optional (6 credits, and done in the final year of Honours). The Department reserves the right to review the overall academic performance and integrity of students in its programs. Students wishing to graduate with an Honours degree combined with any concentration should consult the list of concentrations previous for additional requirements.

The Minor in Criminology

Program Description:

We offer a number of courses germane to the pursuit of a degree in criminology. Many criminology programs originated in, and take for granted, sociological research, theories and methods. Students seriously considering graduate studies in Criminology should complete the Honours Concentration in Criminology, Law and Social Policy. Students consult with the Department Chair and Calendar course descriptions to assure completion of program outlined below. No limitation on cross-counting of courses between this and other programs is in effect.

The Minor in Gender, Diversity & Equity Studies

This minor consists of a minimum of 24 credits (see course list from Gender, Diversity & Equity Concentration). WOM 101 is required.

The Certificate in Gerontology - Sociology Department

30 credits

Description and objectives:

This program in Gerontology is presented from a multidisciplinary perspective. Its bio-psycho-social approach will provide persons currently working or planning to work with the elderly with the theoretical and practical knowledge and skills necessary to deal effectively with the needs of our aging population.

Admission requirements: (See *Regulations for Certificate Programs)*

Certificate in Gender, Diversity and Equity Studies

Description and objectives:

The certificate in Gender, Diversity and Equity Studies (formerly Women's Studies) program at Bishop's has been developed to offer students the opportunity to explore gender in society, past and present, applying new concepts that have emerged in feminist scholarship over the past two decades. A major and a minor are offered (see Multidisciplinary Studies).

Also interdisciplinary in design, the Certificate in Gender, Diversity and Equity Studies provides courses ranging over a wide variety of subject areas and is open only to part-time students. Part-time students may take these courses in the Fall, Winter and Summer evening sessions or in the day with permission of the department concerned.

Admissions requirements: *(See Regulations for Certificate Programs)*

SOCIOLOGY PROGRAMS' COURSES

SOC 101a Introduction to Sociology 3-3-0
This course introduces the foundations of sociology by examining numerous theoretical and empirical issues/debates. Special emphasis will be placed on understanding "the social" or "society" as a distinct and unique object of scientific analysis. Students are also encouraged to use sociological understandings to "make sense" of their personal lives.
Professor Cole

SOC 102b Québec Society I 3-3-0
The course presents an analysis of Québec in historical perspective, and examines nationalism, bilingualism and social structures.
This course is required of all Sociology Minors, Majors, and Honours students.
Professor Gosselin

SOC 105a Media and Society I 3-3-0
An introduction to the impact of media upon society and the social structuring of contemporary media as industries which produce values and ideology.

SOC 107 Canadian First Nations 3-3-0
An introduction to the study of First Nations in Canada.
Professor Donnan

SOC 110a Research Methodology 3-3-0
Sociological research will be dealt with in its quantitative and qualitative orientations. Students will be introduced to techniques of conceptualization, hypothesis formulation, and operationalization.
This course is required of all Sociology Majors and Honours students.
All students taking SOC 110 (after September 1, 2012) must also complete ILT 104: Information Retrieval and Evaluation Skills for the Social Sciences (1 lab credit).

SOC 111b Data Collection/Analysis 3-3-0
Emphasis will be placed on the construction of different methodological frameworks (survey, experiment, fieldwork, unobtrusive measures) as well as the preparation of adequate methods and techniques for data gathering and analysis (sampling, design, coding, questionnaires, interviews).
This course is required of all Sociology Majors and Honours students.
Prerequisite: SOC 110a

SOC 129ab Sex and Gender 3-3-0
The relation between sex and gender is examined in terms of roles and values, social inequality and transformations in these over time; the interface between class, gender, and ethnicity is examined with regard to specific social problems and theories.
Staff

SOC 190 Introduction to Postcolonial Study 3-3-0
An introduction to postcolonial theory and sociological issues arising from the cultural and economic conditions left behind by colonizers and the colonized. By looking at events in countries such as India, Nigeria, the Congo and other former colonies we come to understand the challenge of developing theoretical perspectives which grasp the complex influences of colonizer and colonized upon each other.
Professor Donnan

SOC 202a Directed Independent Study I 3-3-0
A tutorial course in which the student (normally a major) may pursue his or her interests in a selected area of sociology, under the direction of a member of the Department.
Prerequisite: Permission of the instructor and the Department

SOC 203b Directed Independent Study II 3-3-0
See SOC 202a.
Permission of the instructor and the Department

SOC 204 Experiential Learning in Sociology I 3-3-0
The course integrates a sociology student's research interests with the opportunity to participate with and explore a community organization or other coordinated social phenomena. A required component is a minimum 30 hours of active participation. A substantive written analysis, based partially on the student's participatory research experience, and partially upon a study of the relevant literature is also required. It is up to the student to get agreement from the appropriate organization representative(s) for participation in the course and to recruit a professor to be their instructor.

SOC 205a Family I 3-3-0
Changing forms and functions of the family in Western society; growth and decline of the symmetrical family, definitions, theories, marital and sexual roles, and child rearing.
Staff

SOC 207b North American First Nations 3-3-0
The course examines the sociology of strategies of assimilation and the forms of resistance to these strategies in North America.
Staff

SOC 208ab Criminology 3-3-0
A survey of theories of crime and criminality in relation to class, race and gender. Substantive issues will include: murder, prostitution, legal and illegal drug use, woman abuse, white collar crime, and organized crime.
Staff

SOC 209 Young Offenders 3-3-0
The subject of young offenders in Canada is addressed using both contemporary critical theory and empirical evidence. The topics covered include the treatment of youth in Canada by the justice system, enforcement agencies, and their social realities. Variables of class, social inequality, gender and ethnicity contribute to the examination of the relationships of youth to criminal trends and behaviors patterns.

SOC 214ab Aging 3-3-0
Aging and the life course perspective. Sociological theories on aging in relation to gender, class, and ethnicity.
Staff

SOC 219 Sociology of the Body 3-3-0
Notions of the body as the cultural representation of our contemporary "embodied" selves will be explored. This course will uncover the strategies of social, political and economic forces as theses problematize the body and seek to control, manipulate, and alter behaviour.
Professor Gosselin

SOC 221a Modern Sociological Theory I 3-3-0
An introduction to the nature and purpose of sociological theory. Students will learn the foundations of theory (ontology, epistemology, methodology) and social theory's historical development before examining the work of Emile Durkheim. It is recommended that students complete SOC 101 prior to taking this course.
Prerequisite: SOC 101
Professor Cole

SOC 222b Modern Sociological Theory II 3-3-0
Building from the ideas established in SOC 221, this course pursues an extensive analysis and critical evaluation of Karl Marx and Max Weber's respective work.
Prerequisite: SOC 221 or permission of the instructor
Professor Cole

SOC 223ab Women and Global Inequality 3-3-0
This course considers the social location of women within a political economy of globalization. Understanding women's diverse lives requires attention to public, private, local, regional, national and global factors.
Staff

SOC 225ab Québec Society II 3-3-0
Selected topics for analysis of the values, ideologies, behaviour patterns and material culture of Québec society. The course critically examines Québec society during modernity and early post-modernity and draws heavily on artistic and cultural representations (painting, sculpture, literature, etc.)
It is recommended that students take SOC 102 or SOC 101 prior to this
Professor Gosselin

SOC 229b Communications: Gender and Culture 3-3-0
This course examines how society defines gender through communication and what that means for our institutional and personal lives, safety, relationships, and professional opportunities. The focus is on how men and women participate in the social construction of gender, its impacts, and efforts to achieve equality. Topics include: gendered identities, gendered verbal and non-verbal communication about race, gender and violence in the workplace and other institutional or personal settings.
Staff

SOC 230ab Deviance I 3-3-0
Definitions of deviant behaviour, social roles of deviants and the structure of control.
Professor Chartrand

SOC 235ab Women and the Penal System 3-3-0
A critical understanding of gender in criminology. Substantive issues will include: Sexual assault and the justice system, women and family law in the courts, domestic violence, gender and murder. Contemporary theories in criminology and their application are examined.
Professor Chartrand

SOC 241ab Cinema 3-3-0
Culture phenomena and values such as: class interest, gender roles, important events, national character and foreign policy, the ideal family, the deviant, etc., are reflected and contested in film. Students will be exposed to and discuss a variety of theories and methods of analysing culture by way of film as industry and meaning creation.
Professor Coulter

SOC 245ab Race and Ethnicity 3-3-0
The sociology of multiethnic and multiracial societies examines social conflicts over the distribution of resources and power; racism and multicultural ideologies are examined.
Professor Gosselin

SOC 250b Collective Behaviour 3-3-0
Macro-structures of society such as crowds, publics, fads and riots are examined, including evolving collectivities and their subsequent ideological transformations.

SOC 260a Community 3-3-0
A comparative and historical analysis of rural, urban, and ethnic communities.

SOC 280a Interpersonal Communication 3-3-0
Human interaction at the macrosociological level. Equality, domination, integration, marginalization, co-operation and conflict will be examined.

SOC 290ab Contemporary Theory 3-3-0
A survey of twentieth century theory through a variety of schools including symbolic interactionism, functionalism, neo-Marxism, feminism, modernism and postmodernism.
Professor Coulter

SOC 291b Sociology of Art 3-3-0
An introduction to the Sociological study of the Arts. The course focuses on the social practices and organizational frameworks related to artistic production/ creation, mediation processes, and the reception of art works and artists. Attention will be given to issues related to race, gender, class, and power.
Professor Coulter

SOC 292 Social Policy 3-3-0
Introduction to the sociological study of social policy in the Canadian context. The course will examine civil society in relation to a rapidly changing policy context. The development and outcomes of policy will be investigated from a number of theoretical perspectives.
Prerequisites: SOC 101,and SOC 102,and SOC 110 and SOC 111 or POL 173 or ECO 109
Staff

SOC 294 Sociology of Tourism 3-3-0
Travel, journeys and their associated human migrations are the key areas of focus in this course. While movement for purposes of rest and recreation has always been part of our collective legacy, in this world of increasing globalization, the mass tourist industry and a variety of leisure activities has helped transform many locations around the globe. The course will explore tourism, in all its forms and the impact of traveling, both positive and negative, on cultures, sustainability and the environment.
Professor Gosselin

SOC 296 Globalism and Culture 3-3-0
An introduction to key concepts for the current understanding and applications of cultural and social globalization.
Professor Donnan

SOC 298 Social Problems 3-3-0
The course develops a structural understanding of crime, health, inequality, and environmental destruction etc. Situating these problems within the framework of contemporary capitalism, it examines their root causes and possible solutions.
Professor Cole

SOC 299 / EDU 303 Sociology of Education 3-3-0
Comparative study of the Canadian education system and processes in light of current sociological theory and research
Staff

SOC 301b Aspects of Sociological Inquiry 3-3-0
The relationships between language and inquiry will be examined with reference to the works of contemporary sociological theorists.
Prerequisites: SOC 222 or PHI 324/POL 324
Professor Cole

SOC 302a Directed Independent Study III 3-3-0
See SOC 202a.
Prerequisite: Permission of the instructor and the Department

SOC 303b Directed Independent Study IV 3-3-0
See SOC 202a.
Prerequisite: Permission of the instructor and the Department.

SOC 304 Experiential Learning in Sociology II 3-3-0
The course integrates a sociology student's research interests with the opportunity to participate with and explore a community organization or other coordinated social phenomena. A required component is a minimum 30 hours of active participation. A substantive written analysis, based partially on the student's participatory research experience, and partially upon a study of the relevant literature is also required. It is up to the student to get agreement from the appropriate organization representative(s) for participation in the course and to recruit a professor to be their instructor.

SOC 305b Family II: Selected Topics 3-3-0
An advanced seminar on selected issues affecting the family in historical and contemporary settings involving the relationship between public and private spheres and between production and reproduction.
Prerequisite: SOC 205
Staff

SOC 307 Sociology of Health 3-3-0
This course seeks to examine the place of health and illness in society, the relationship between bio-medical problems and the social, political and economic realities that help shape them. Topics will include poverty and health, mental illness, aging, death and dying, professionalism, health service organization, inequalities in health service access and use, recent policies and difficulties with health care reform.

SOC 309 Advanced Seminar in Global Colonization and Decolonization 3-3-0
Colonialism and imperialism are considered in relation to settler societies and global power structure. This course questions theories of decolonization and liberation in the context of cultural and economic empires.
Prerequisite: SOC 207 or SOC 245
Professor Donnan

SOC 311b Quantitative Tools for Social Research 3-3-0
A critical review of statistical methods frequently used in social research.
Prerequisites: SOC 110 and SOC 111, or permission of instructor. Required for Honours Sociology students.
Staff

SOC 315ab Political Sociology in the Digital Era 3-3-0
This course examines the state and policy making in Canadian and global contexts, from a sociological perspective. Marxist, feminist and traditional theories are examined.
Register with permission of the instructor
Professor Coulter

SOC 320ab Knowledge 3-3-0
How do we know what we know? An analysis of the role of ideas in the development of social institutions and the impact of belief systems on social values. Science, politics, education, religion, the arts and the professions are examined.
Register with permission of the instructor
Professor Coulter

SOC 321b Sociology of Technology 3-3-0
The social and cultural context of technology as it has become embedded at the local and global arena. Topics may include: social theories of knowledge and information, the political economy of information, the development of technology as a tool of consumption, and knowledge production.
Prerequisite: SOC 101 and SOC 110 and SOC 111
Staff

SOC 322ab Urban Sociology 3-3-0
Theories of urban growth and development; comparative analysis of cities and their problems.
Prerequisite: SOC 101 and SOC 110 and SOC 111 or ESG 126
Professor Gosselin

SOC 331b Deviance II: Selected Topics 3-3-0
Selected topics such as drugs, homosexuality, prostitution and juvenile delinquency will be discussed.
Prerequisite: SOC 208 and SOC 230 recommended

SOC 340b Women: Theory and Ideology 3-3-0
Women are viewed as both object and subject of ideological and theoretical discourses. Oppression and liberation are investigated from a variety of theoretical perspectives.
Prerequisite: Some women's studies background is required. Register with permission of the instructor
Professor Gosselin

SOC 361b Ethnographics 3-3-0
The emphasis is upon understanding and utilizing ethnographic methods in the examination of societal events and relationships, in terms of how these are perceived and socially organized.
Prerequisites SOC 101,and SOC 110,and SOC 111

SOC 396 Post Colonial Theory 3-3-0
Advanced seminar in contemporary postcolonial theories.
Prerequisite: Prerequisite SOC 190 or SOC 107 or ENG 228 or ENG 375
Professor Donnan

SOC 402a Honours I: Special Topics 3-3-0
The course accommodates the study of particular sociological topics at an advanced undergraduate level. Subjects will vary from year to year.
Required for Honours Sociology students; normally to be taken in the final year.
Prerequisite: Permission of the department chair is required
Staff

SOC 404b Honours II: Research Strategies 3-3-0
This course examines research procedures, the objectives and limits of particular approaches, and the relationships between theory, research strategy and its application.
Required for Honours Sociology students
Prerequisite: Permission of the department chair is required
Staff

SOC 450 Thesis 6-0-0
Supervised honours research project under the direction of an instructor.
This is an option for Honours Sociology students only and must be submitted to the Department upon completion.
Prerequisite: The completion of all required courses within the Major and the permission of the Departmental member who acts as the thesis advisor. Normally taken along with 402 and 404 in the final year of the Honours Sociology program.
Staff

WOM 101ab Introduction to Women's Studies 3-3-0
This course introduces students to selected interdisciplinary background and methods of research in women's and gender studies.
A prerequisite and required in all Women's Studies Programs/degrees.
Staff

WOM 201ab Women and Feminism in Canada 3-3-0
This course explores women's gendered experiences in Canadian society, specifically the impacts of diverse social problems and globalization on women. The analytical concept of gender in conjunction with class, identity, race and ethnicity will be used. The importance of feminist thought on Canadian policy, internationalism, human security and human rights may also be addressed.

WOM 301ab Directed Independent Study 3-3-0
A student undertakes independent study with a faculty member in the programs.
Prerequisite: Permission from the coordinator and the instructor.
Staff

WOM 305b Women and Feminism: Selected Topics 3-3-0
This course explores advanced theoretical and methodological issues in feminism.
Staff
For WOM 230 / DRA 230 see Drama department course descriptions.

SOCIOLOGY COURSES OFFERED LESS FREQUENTLY

SOC 100ab Sociological Imagination 3-3-0
The primary objective of this course is to stimulate curiosity about that part of people's behaviour that is determined by relationships with others and by membership in groups. This course examines and evaluates the contribution sociology makes to the ongoing process of attempting to understand the surrounding social world. This course is intended for students lacking introductory sociology.
Professor Cole

SOC 155 Sociology of Sport 3-3-0
A theoretical and empirical introduction to the social organization of sports and how they are mediated.

SOC 215ab Culture, Ethnicity and Aging 3-3-0
This course is designed to raise an awareness of aging in relation to culture and ethnicity. Concepts and theories of culture, aging and group interaction understood within a Canadian perspective will be provided in addition to sociological examination of class, gender and race.
Staff

SOC 217ab Social Policy of Aging 3-3-0
This course will study the content, the interpretation and impact of laws affecting elderly and will examine the evolution of social policies and programs in the province of Quebec and in Canada. It will analyse the principles that the state follows to determine its implication in the field of social and health services to the aging population. The evolution of social policies and programs, the current configuration of governmental resources, community resources, and natural networks will also be examined.

SOC 220ab Work and Leisure 3-3-0
Industrial and "post-industrial" societies, especially Canada, are examined within a world-system framework. The focus is on power dynamics, contemporary and theoretical issues, involving workers, professionals, owners and consumers.
Formerly called "Industrial Sociology I".
Staff

SOC 281b Communications Methods 3-3-0
Research in the areas of interpersonal, organizational and mass communication. Methods particular to communications studies are examined and applied.

SOC 293 Visual Sociology 3-3-0
We live in cultures which are saturated with digital information and new media. This course engages with major thinkers who study the use of photographs, film, and video to understand society. The course is organized around a series of ideas and problems involving intersections between theory and practice.
Professor Coulter

SOC 295 Sustainable Societies 3-3-0
This course addresses concepts of social and cultural sustainability. Key questions concerning the environmental impacts of social organization as well as options for change will be considered.
Professor Donnan

SOC 308b Formal Organization 3-3-0
The institutionalization and legitimation of power and decision-making processes. Special emphasis is given to innovation and deviance in formal organizations.
Prerequisite: Students should have 9 credits in Sociology or permission of the instructor.

SOC 381ab Media and the Environment 3-3-0
This course examines processes of technologically mediated interaction at the macro-sociological level. Trends and structures of mass culture and communications are examined in relation to how we relate to nature.
Prerequisite: Students should have 9 credits in Sociology or permission of the instructor

SOC 395 Advanced Theories of Social Sustainability 3-3-0
Advanced seminar on the dynamics of global and local relationships regarding the nature of sustainable societies.
Prerequisite: Some background in the study of ecological and economic issues are strongly recommended
Professor Donnan

WOM 120ab Women and the Law 3-3-0
This course provides a comprehensive study of the political and legal development of the status of women in Canada, by way of: feminist theory, the division of labour, political culture and human rights. The objectives include an appreciation and understanding of feminist political theory and general principles of legal jurisprudence.
Staff

Sports Studies

Objective

Sports Studies at Bishop's is an integrated program, drawing on the expertise of faculty in Psychology, Sociology, Politics, Business, and the Health Sciences, in addition to faculty specializing in Sports and Exercise Science. The Sports Studies Program and its courses belong to the Division of Social Sciences at Bishop's. Sports Studies is offered as both Major (with or without specialized concentrations) and Minor programs, providing an intensive study of sport and exercise in society. The programs are general Bachelor of Arts degrees, designed to encourage students to adopt an interdisciplinary perspective that gathers together the individual, local, national and international dimensions of sport and exercise. Consequently, they expose students to the social, biological, political, business and economic aspects of sports in society. The programs also provide opportunity for practical experiences.

Program Outcomes

These programs will help to prepare students for employment in sports organizations at the community and corporate level, as well as in volunteer programs to develop sports. The Major program will also prepare students for further studies in areas such as recreation, leisure, sports management or journalism.

Sports Studies Major *(48 credits)*

The Major in Sports Studies is a program of 48 credits (16 courses) divided into four blocks (see the table below, left column). Blocks A, B and C consist of core courses, while block D consists of any five courses (15 credits) chosen from the "*Sports Studies Optional Courses List*" but not already included in Blocks A-C (see the table below, right column). Students are normally expected to complete all of Block C, *Scientific Literacy courses*, in the first year (30 credits) of the program. The Block A course, EXS 127, and Block B course, SPO 101 are also normally completed during the first year. Quebec students who have received **advanced credit** at Bishop's for PSY 101 and/or PSY 102, via their CEGEP studies, must replace these with courses selected from the Sports Studies Optional Courses list (different from those used to fill any of the four blocks, i.e. no double counting).

Program Concentrations

The Sports Studies Major program can be specialized by the addition of any one of three concentrations: i) Athletic Development, ii) Business and Society, or iii) Health. In addition to the 48 credits required for the Major, extra credits in the concentration area are required to earn this designation on the transcript. See the second table below for a complete list of the required courses for each of the concentrations. The Sports Studies Major, with any one concentration, is a 60-credit (20 courses) program. Students deciding to add a concentration must fill out a "program change" form with the Chair of the Sports Studies Program at some point during their program.

Note that students pursuing the Business and Society concentration are not eligible for the minor in Business Administration from the Williams School of Business.

It is possible to add any combination of two of the concentrations. The length of the program will then increase to 81 credits (27 courses). For a double concentration, all of the courses in Blocks A, B, C and E of both concentrations must be completed. The courses which will count for Block D must be different than those used for any of the other blocks. If the desired double concentration is Health combined with Business and Society, then Block D will only be 6 credits. Block D will be 12 credits for the other two possible double concentrations.

Students completing the Athletic Development concentration of the Sports Studies Major *may* have completed the requirements for coaching certification (via Sports Québec and the NCCP) levels A, B, and C. (The Sports Studies Program Committee has applied for this coaching certification for its program, and is presently anticipating approval in time for 2015 graduation).

Electives

Bachelor Degree programs at Bishop's require 120 credits. Quebec students with a DEC receive 30 advanced credits, allowing completion of the degree in three years. Therefore a Sports Studies Major has 72 credits (42 for a Quebec student) of "free elective" courses. Students are encouraged to consider adding a minor from another discipline, or even a second major. Students with a concentration in Sports Studies will still have 60 (30 for Quebec students) free elective credits, enough to pursue additional major or minor specialities.

All Sports Studies students must meet the "Arts and Science" requirement of the University by completing at least one (3 credit) course offered by the Division of Natural Sciences and Mathematics. The Sports Studies Optional courses which satisfy this requirement are: BCH 101, BIO 131, BIO 233, and EXS/BIO 433. A free elective may also be used for this purpose.

Sport Studies Minor

The Minor in Sports Studies is a program of 24 credits (8 courses) divided into three blocks: A, B and D (see the table below, middle column). The program can be added to any degree program in the University (other than Sports Studies Major programs). If a student's selection of courses to complete Block D consists of SPO 211, EXS 231, EXS 327, EXS 328, and PSY 203*, then the Sports Studies Minor *may* fulfill NCCP coaching certification (levels A, B, and C), through Sports Québec (the approval process for this certification is expected to be finalized in time for 2015 graduation).

*PSY 203 requires PSY 101 or PSY 102 as pre-requisites.

Sports Studies Major (48 credits)

Block A: Athletic Development

EXS 127 Introductory Exercise Physiology
SPO 211 The Theory of Coaching
EXS 327 Athletic Performance and Development

Block B: Sports and Society

SPO 101 Introduction to Sports Studies and the Workplace
SPO 201 Sports, Culture and Society
SPO 301 Athletes and Society
SPO 403 Advanced Seminar in Sports Studies

Block C: Scientific literacy courses

ELA 116 Effective Writing
PSY 101 Introduction to Psychology: Basic Processes
PSY 102 Introduction to Psychology: Human Interactions

Plus one of:

BMA 140* Statistical Analysis for Business Decisions I
PHY 101 Statistical Methods in Experimental Science
PSY 213* Research Methods I
SOC 111* Data Collection/Analysis

** Requires a pre-requisite course.*

Block D: Sports Studies Optional courses (15 credits)

Note: Students receiving advanced credit for PSY 101 and/or PSY 102 from CEGEP must replace these with Sports Studies optional courses in all Sports Studies programs.

Sports Studies Minor (24 credits)

Block A: Athletic Development

EXS 127 Introductory Exercise Physiology

Block B: Sports in Society

SPO 201 Sports, Culture and Society
SPO 301 Athletes and Society

Block D: Sports Studies Optional Courses (15 credits)

Note: If Block D consists of SPO 211, EXS 231, EXS 327, EXS 328, and PSY 203, then the Sports Studies Minor may fulfill NCCP coaching certification (levels A, B, and C).*

**PSY 203 requires PSY 101 or PSY 102 as pre-requisites.*

Sports Studies Optional Courses List

EXS 231 Nutrition for Sports and Exercise
EXS 301 Health and Exercise Science
EXS 327 Athletic Performance and Development
EXS 328 Injury Prevention and Treatment in Sports
EXS 433 Advanced Exercise Science
SPO 155 Sociology of Sport
SPO 211 The Theory of Coaching
SPO 401 Experiential Learning
SPO 402 Independent Study
BCH 101 Introduction to Nutrition
BIO 131* Human Body in Health and Disease
BIO 233* Human Anatomy
BMG 214 Intro. to Entrepreneurship: New Venture Creation
BMK 362 Sport Marketing
CLA 130 Sports and Games in the Ancient World
ENG 296 Sports Writing
ESG 264 Outdoor Recreation
PBI 217† Motivation and Emotion
PBI 275† Health Psychology I
PBI 276† Health Psychology II
PBI 327† Psychology of Nutrition
POL 230 The Politics of Sport
PSY 203† Cognition and Motivation in Sport
PSY 204† The Social Psychology of Sport and Exercise
PSY 328† Occupational Health Psychology
SOC 219 Sociology of the Body
SOC 220 Work and Leisure
SOC 307 Sociology of Health

**may receive credit for only one of BIO 131 and BIO 233*

†these courses all require PSY 101 and/or PSY 102 as pre-requisites.

Note: Some of these courses are only offered on an irregular basis

Athletic Development Concentration (60 credits)

Block A: Athletic Development

EXS 127	Introductory Exercise Physiology
SPO 211	The Theory of Coaching
EXS 231	Nutrition for Sports and Exercise
EXS 327	Athletic Performance and Development
EXS 328	Injury Prevention and Treatment in Sports
EXS 433	Advanced Exercise Science
BIO 131	The Human Body in Health and Disease
PSY 203	Cognition and Motivation in Sport

Block B: Sports and Society

SPO 101	Introduction to Sports Studies and the Workplace
SPO 201	Sports, Culture and Society
SPO 301	Athletes and Society
SPO 403	Advanced seminar in Sports Studies

Block C: Scientific literacy courses

ELA 116	Effective Writing
PSY 101	Introduction to Psychology: Basic Processes
PSY 102	Introduction to Psychology: Human Interactions

One of:

BMA 140*	Statistical Analysis for Business Decisions I
PHY 101	Statistical Methods in Experimental Science
PSY 213*	Research Methods I
SOC 111*	Data Collection/Analysis

** Requires a pre-requisite course.*

Block D: Sports Studies Optional Courses *(12 credits)*

Note: a student may be able to earn NCCP coaching certification (levels A, B and C) with an Athletic Development Concentration.

Business and Society Concentration (60 credits)

Block A: Athletic Development

EXS 127	Introductory Exercise Physiology
SPO 211	The Theory of Coaching
EXS 327	Athletic Performance and Development

Block B: Sports and Society

SPO 101	Introduction to Sports Studies and the Workplace
SPO 201	Sports, Culture and Society
SPO 301	Athletes and Society
SPO 403	Advanced Seminar in Sports Studies

Two of:

SPO 155	The Sociology of Sports
POL 230*	The Politics of Sport
PSY 204	The Social Psychology of Sport and Exercise

Block C: Scientific literacy courses

ELA 116	Effective writing
PSY 101	Introduction to Psychology: Basic Processes
PSY 102	Introduction to Psychology: Human Interactions

***One of:*

BMA 140*	Statistical Analysis for Business Decisions I
PHY 101	Statistical Methods in Experimental Science
PSY 213*	Research Methods I
SOC 111*	Data Collection/Analysis

** Requires a pre-requisite course.*

*** Recommended choice: BMA 140.*

Block D: Sports Studies Optional Courses *(6 credits)*

Block E: Sports and Business

BMG 112	Management Theory and Practice
BMK 211	Marketing Management
BMK 214	Consumer Behaviour
BHR 221	Organizational Behaviour
BMG 214	Intro. to Entrepreneurship: New Venture Creation

Note: *A student in this concentration is not eligible for a Business Administration Minor.*

Health Concentration (60 credits)

Block A: Athletic Development

EXS 127	Introductory Exercise Physiology
SPO 211	The Theory of Coaching
EXS 327	Athletic Performance and Development

Block B: Sports and Society

SPO 101	Introduction to Sports Studies and the Workplace
SPO 201	Sports, Culture and Society
SPO 301	Athletes and Society
SPO 403	Advanced Seminar in Sports Studies

Block C: Scientific literacy courses

ELA 116	Effective Writing
PSY 101	Introduction to Psychology: Basic Processes
PSY 102	Introduction to Psychology: Human Interactions

***One of:*

PHY 101	Statistical Methods in Experimental Science
PSY 213*	Research Methods I
PSY 213*	Research Methods I
SOC 111*	Data Collection/Analysis

** Requires a pre-requisite course.*

*** Recommended choice: PSY 213.*

Block D: Sports Studies Optional Courses (6 credits)

Block E: Sports and Health

Any 7 (21 credits) of:

EXS 231	Nutrition for Sports and Exercise
EXS 301	Health and Exercise Science
BCH 101	Introduction to Nutrition
BIO 131*	Human Body in Health and Disease
BIO 233*	Human Anatomy
PBI 275	Health Psychology I
PBI 276	Health Psychology II
PBI 327	Psychology of Nutrition
PSY 328	Occupational Health Psychology
SOC 307	Sociology of Health

** May receive credit for only one of BIO 131and BIO 233.*

EXS 127b Introductory Exercise Physiology 3-3-0
This course explores concepts in Exercise Physiology, with applications in Sports Medicine. The student will be challenged to apply basic knowledge of human anatomy and physiology to exercise, training and sports. Adaptation of body systems to exercise, injury and reconditioning will be studied. Basic principles of biomechanics and exercise will be explored. The course will consist of lectures, presentations, discussion periods, and demonstrations.
Prerequisites: Secondary school Biology and/or Chemistry are recommended.
Note: EXS courses do not fulfill the "Arts and Science" requirement for students in the Divisions of Social Sciences or Humanities

EXS 231b Nutrition for Sports and Exercise 3-3-0
An introduction to the principles of sports nutrition. Application of these principles to various contexts: exercise, fitness, as well as competitive sports environments. Topics include energy requirements for exercise and performance, both for recreational and elite athletes; carbohydrate, protein, fat and micronutrient requirements; carbohydrate and fluid intake prior to, and during exercise; nutrition for post-exercise/performance/injury recovery; dietary supplements; weight loss and "making weight" in sport; contemporary issues.
Prerequisites: EXS 127 Introduction to Exercise Physiology or BCH 101 Introduction to Nutrition or EXS 101or BIO 233
Note: EXS courses do not fulfill the "Arts and Science" requirement for students in the Divisions of Social Sciences or Humanities

EXS 301 Health and Exercise Science 3-3-0
This course examines the relation and links between exercise and health. Using epidemiological studies, students are exposed to the role of physical activity on morbidity and mortality. Primary and secondary health-risk factors are examined relative to the influence physical activity has on them and one's quality of life.
Prerequisites: EXS 127 Introductory Exercise Physiology and a statistics course: SOC 111, PSY 213, BMA 140, PHY 101.
Note: EXS courses do not fulfill the "Arts and Science" requirement for students in the Divisions of Social Sciences or Humanities

EXS 327b Athletic Performance and Development 3-3-0
This course explores the many factors influencing athletic performance and its development. Specifically, students will be exposed to the scientific principles of athletic training. Topics will include: power and endurance training, strength training, recovery strategies, field and laboratory tests, periodization of training. The course will consist of lectures, presentations and experiments.
Prerequisites: EXS 101, and one of EXS 127 or BIO 131 or BIO 233
Note: EXS courses do not fulfill the "Arts and Science" requirement for students in the Divisions of Social Sciences or Humanities

EXS 328 Injury Prevention and Treatment in Sports 3-3-0
This course explores topics in exercise physiology relating to sports injuries, their prevention and treatment. Causes of sports injury are also addressed. Building on previous knowledge of basic human anatomy and physiology students will examine how body parts and systems are affected during exercise, sport and injury. The curriculum will be covered in lectures, demonstrations, small group discussions and practical work.
Prerequisites: EXS 127 Introductory Exercise Physiology OR BIO 233 Human Anatomy
Note: Students may not earn credit for both EXS 128 and EXS 328.
Note: EXS courses do not fulfill the "Arts and Science" requirement for students in the Divisions of Social Sciences or Humanities

EXS 433 Advanced Exercise Science 3-3-0
This course examines selected topics in Exercise Physiology. Through traditional lectures, directed readings, seminars, and case studies, students will study short-term and long-term adaptations to exercise. We will also examine the scientific principles underlying sports-related topics such as optimizing exercise performance, injuries, and injury repair.
Prerequisite: Exercise Science 127 or 128 or BIO 336
Note: See BIO 433. Students may not take this course for credit if they have received credit for BIO 433.

SPO 101a Introduction to Sports Studies and the Workplace 3-2-1
This course provides a general introduction and overview of the field of sports studies. Through a series of case studies, readings, simulations, presentations, written reports and reflections, students will be exposed to the role of different sport specialists in our society and the ways in which they practice their profession. Specifically, this course will explore professions such as: fitness and personal trainer, varsity coach, sports injuries therapist/physiotherapist, sports nutritionist, sports facilities manager, municipal parks and recreation planner/manager, sports journalist, kinesiologist, professional athlete, and more. Effective goal setting and career planning will also be addressed. The laboratory component will consist of the students attending and completing the requirements for an ILT 104 class (though this designation will not occur separately on the transcript). This laboratory component will introduce students to the skills necessary to effectively complete their research assignments and efficiently use the library resources including the online catalogue, periodical indexes and other relevant databases.
Note: This course is meant for students majoring in Sports Studies and is normally completed within the first thirty credits. Students completing this course do not need to take ILT 104 as a co-requisite to any other course, and cannot earn credit for both this course and any ILT 10x course.
Note: Students may not earn credit for both SPO 101 and EXS 101. Credit for EXS 101 may be used to replace SPO 101 in any Sports Studies Major.

SPO 155 Sociology of Sport 3-3-0
A theoretical and empirical introduction to the social organization of sports and how they are mediated.
Note: See SOC 155. Students may not take this course for credit if they have received credit for SOC 155.
Note: This course is normally offered in the spring semester.

SPO 201b Sports, Culture & Society 3-3-0
An interdisciplinary course focusing on the impact of sport on society. Topics include history and philosophy of sport, sport in the ancient world, its relationship to social identity, social hierarchy, media, film, popular culture, business and our economy.

SPO 211a The Theory of Coaching 3-3-0
The aim of this course is to explore the fundamentals of athletic coaching. Through a series of lectures, presentations and workshops, students will be exposed to the theoretical elements that contribute to successful athletic coaching. Topics will include: teaching and learning theories, planning a practice, designing a sport program, coaching and leading effectively
Prerequisite: SPO 201.

SPO 301a Athletes & Society 3-3-0
An interdisciplinary course focusing on the social implications of professionalizing sport. Topics include the role of media in professionalizing sport, its effects on amateur athletics, technology and sports, the proliferation of drugs in sport, the business models of sports professionals.
Prerequisite: SPO 201

SPO 401 Experiential Learning 3-1-10
The aim of this course is to integrate knowledge with a practical component. Although the content focus changes from year to year, the aim of the course is to expose students to the application of what they have learned. The course will mix seminars with practical placements. Topics may include: Marathon running, coaching, assisting in a community sports program, developing exercise programs in hospitals, homes for the aging, convents, or some other care-giving institution.
Prerequisite: SPO 301.
Taken in the final 30 credits of the student's program.

SPO 402 Independent Study 3-3-0
Students are expected to design and carry out research in an area related to Sports Studies. This can be original research, the development of a case study, or a program evaluation.
Prerequisite: SPO 301
Taken in the final 30 credits of the student's program.

SPO 403ab Advanced Seminar in Sport Studies 3-3-0
This seminar is an advanced directed study in specialized areas of sport and recreation. Selected topics are presented and critically discussed in small group format. The content of this course will explore a variety of issues and may vary year to year.
Prerequisite: SPO 301
Only open to students in their final year (last 30 credits).

Services and Facilities

Student Services

Mission Statement

Student Services understands Bishop's University to be a learning community in which the student is the centre of our educational mission.

We commit ourselves to work together with students and with all partners, both teaching and non-teaching, to enhance the quality of student life so that each student may experience the fullest personal growth, enjoy a learning environment that is just, mutually respectful, and strives for academic excellence.

We support an atmosphere where both freedom of expression and civility are powerfully affirmed. Further, we endorse a disciplined community where individuals accept their reciprocal obligations for the common good; where well-defined procedures of governance guide behaviour; where service to students is encouraged; and where a caring community supports the well-being of each individual.

Finally, we support the University as a community in which the heritage of Bishop's is remembered, the contribution of students is honoured; where the rituals affirming tradition are acknowledged and the procedures governing change are widely shared.

Dean of Student Affairs

As a senior administrator and Officer of the University, the Dean oversees the overall coordination and quality of student services (Athletics, Campus Ministry, Counselling Services, Student Accessibility and Accommodation Services, Career & Employment, Health Services, Residence Life, Student Leadership Development, and Security), and certain ancillary services (Arena, Bookstore, Conferences, Sports Centre, the Old Lennoxville Golf Course and Parking).

The Dean of Student Affairs is responsible for all matters of student conduct, for ensuring respect for the Charter of Student Rights and Responsibilities, and for the application of sanctions to students who are in violation of the Charter. Working closely with the Students' Representative Council, the role is at times that of an advisor and partner on projects initiated either by the University or by the student government. At other times the role is to ensure the respect of the University's policies and to approve the use of University facilities for major student activities and events.

The Dean of Student Affairs is available to meet with students to discuss issues of University policy, to hear suggestions for the improvement in the quality of campus life and to receive complaints about areas under the jurisdiction of the Dean. The office of the Dean of Student Affairs is located in the Marjorie Donald building, room 222.

L.E.A.P. Program

The Leadership and Extra-Curricular Activity Profile (L.E.A.P.) is an official university document designed to verify and validate a student's leadership positions, organizational memberships, and other significant involvement in activities outside of the classroom not documented on the academic transcript. The University endorses this certificate as an official document when signed by the Dean of Student Affairs. Enrollment in the L.E.A.P. program is completely voluntary and must be initiated by the student. L.E.A.P. provides students a credible official listing of their accomplishments outside the classroom to complement an academic transcript and resume for applications to graduate school and prospective employers. Contact Pam Graham at (819) 822-9600 ext. 2766 or *pamgraham@ubishops.ca* for more information.

Ombudsperson

The major role of the Ombudsperson is to receive inquiries and complaints from any member of the University community who believes they have suffered some form of injustice, whether it has to do with academics or other matters. The Ombudsperson can normally give advice about where to go to have an issue looked into or reconsidered, or, after determining that all normal avenues of recourse and appeal have been exhausted, will investigate the factual basis of a complaint and, if appropriate, attempt to facilitate a solution using either formal or informal procedures. The Ombudsperson may also recommend changes to existing rules, policies, regulations or procedures, to make them more fair, or more clear and effective.

The Ombudsperson operates independently of all other offices in the University. Initial inquiries to the Ombudsperson are completely confidential until the complainant agrees to allow the Ombudsperson to act on the matter, at which point the matter remains confidential, restricted to those with a need to know.

The Ombudsperson must investigate all sides of a particular problem, must maintain a neutral stance throughout the investigation, and must strive to achieve solutions which are as fair as possible given the circumstances involved. At the end of an inquiry, the Ombudsperson will explain the nature of the chosen solution to those who initiated the complaint or, where the complaint has been found to be not justified, explain to the individual or groups involved the reasons for not continuing the investigation.

From time to time, the Ombudsperson may act as a mediator between individuals or groups of individuals in the University community who have been unable to resolve a conflict, particularly where no procedure exists for the resolution of such matters.

Please see the University website for further information, including the complete terms of reference for the Ombudsperson, and, especially, the Charter of Student Rights and Responsibilities.

Athletics and Recreation

Bishop's University offers its students and staff a diversified athletic program. It is divided into three categories, offering levels of competition and instruction to meet a variety of individual interests and needs.

1) Inter-university Athletics. Bishop's is a member of Canadian Inter-university Sport, and of the "Federation Quebecoise du Sport Etudiant", competing in Football, Men's and Women's Rugby, Women's Soccer, Men's and Women's Golf, Men's and Women's Basketball against other Quebec Universities. Women's Ice Hockey and Men's Lacrosse compete as Club sports.

2) Intramural Sports provides another level of competition in men's, women's and co-educational leagues and individual sports such as badminton, ball hockey, basketball, broomball, touch football, golf, ice hockey, water-polo, soccer, softball, squash, tennis, and volleyball.
3) Recreational Instructional Program offers a wide array of non-competitive, life-enhancing, instructional activities such as aerobics, yoga, and martial arts. Two separate brochures provide details about the Fall, Winter and Spring programs; these are available at the beginning of each session. For more information on courses, please call 819-822-9600 ext. 2666.

Athletic Facilities

The John H. Price Sports and Recreation Centre houses a double gymnasium for basketball, volleyball and badminton, with bleachers seating 1,200 spectators; a six-lane, 25-metre swimming pool equipped with one meter diving board; squash courts, outdoor tennis, and facilities for gymnastics, combatives, aerobics, fitness, weight-training and indoor jogging. There is a spectator's level with a cafeteria-lounge leading to an outdoor patio. The complex provides the opportunity for sport and recreational experience to all members of the university community and plays a vital role in fulfilling the concept of total education at Bishop's. Other campus sports facilities include Coulter Field Stadium, a lighted 2000-seat stadium with a newly installed FieldTurf® synthetic surface; the W.B. Scott Memorial Rink; 10 outdoor tennis courts including 6 lighted play areas, a meticulously groomed 9-hole golf course, and a number of playing and practice fields.

Specific information concerning athletics can be obtained from:

The Director of Athletics
Bishop's University
2600 College Street
Sherbrooke, Quebec J1M 1Z7
Visit our website at: *www.ubishops.ca/gaiters*

Sportsmedicine

The Sportsmedicine clinic provides services to our student-athletes, the general student population and community patients alike. This arrangement and quality of care is rarely found in Canadian universities. The clinic benefits from the most modern equipment available, and is staffed by three certified athletic therapists, an orthopaedic surgeon, physiotherapists and student assistants.

Campus Ministry

Campus ministry at Bishop's seeks to foster faith, spirituality and social justice. The Campus Ministry office is located in Room 213, Marjorie Donald House (telephone 819-822-9600 ext 2718), and the Campus Minister is available for counselling and pastoral care. Campus Ministry also sponsors speakers, discussion groups and outreach programs.

Counselling Service

Professional Counsellors are available to help students deal with personal concerns related to adapting to university life, family problems, relationships, difficulties with drugs and alcohol, and other matters, all of which are handled in complete confidentiality. Services are also provided to students wishing to enhance their study skills. Workshops on topics of interest to students are scheduled throughout the academic year. The Counselling Office maintains a resource centre, with a library of study reference materials as well as self-help books and in addition coordinates services/accommodations to students with disabilities.

Individual appointments may be scheduled from Monday–Friday, 8:30 a.m.–noon. and 1:00 p.m.–4:00 p.m.

The Service is located in Marjorie Donald Building, Room 214, (819) 822-9600 ext. 2695.

Career & Employment Service

Career & Employment Services are located in the Marjorie Donald Building, Room 225. Office hours are from 9:00 a.m. to noon – 1:00 p.m. to 4:00 p.m. from Monday through Friday. Telephone: 819-822-9600 ext. 2246.

The primary mandate of Career & Employment Services is to assist students in all aspects of career development; in particular, the areas of career exploration, decision making, career planning, the development of job search strategies, and researching current employment opportunities. Assistance is also provided to obtain Canadian off-campus work permits.

Educational, career, and employment recruitment activities are also organized on-campus throughout the school year. These events are regularly posted on the Career and Employment website along with full-time, part-time, summer, and work abroad opportunities. For more information about Career and Employment Services, please check our website: *http://www.ubishops.ca/career-employment-centre/index.html.*

Peer Tutoring Program

Students who are having difficulty with one or two courses may receive tutoring from a qualified senior student who has already completed that course. Students receiving tutoring are required to pay a nominal hourly charge for this service. Students and potential tutors are invited to register at the Counselling Service, Marjorie Donald Building, Room 214, (819) 822-9600 ext. 2695.

Student Accessibility and Accommodation Services

Within the scope of its resources, the University tries to help students with disabilities to complete their programs successfully. Applicants to Bishop's who have learning disabilities, or who require other forms of special support, are urged to communicate with the Student Accessibility and Accommodation Services Office (Room 217, Marjorie Donald House; 819-822-9600, ext. 2695) before applying to Bishop's.

Students with learning disabilities, ADHD, or acquired brain injury should be prepared to provide current psycho-educational or neuro-psychological documentation. Students with sensory, mobility or medical disabilities should provide the office with current medical documentation of the condition.

Health Services

The Champlain-Bishop's Health Service is located in Mackinnon Hall, Room 114 and offers health care to all full-time students and any part-time student who has paid the student services fee. Staff and faculty may use the service for a small fee. The staff at Health Services will do everything possible to treat illnesses and injuries quickly so that class absences will be kept to a minimum.

Some of the services offered include diagnoses and treatment of acute and chronic illness, emergency care, routine physicals,

sexually transmitted infection testing and information, pregnancy tests, contraception, wart treatment, allergy shots and certain vaccinations. This is only a partial list of services offered; please inquire about any other medical needs.

The staff includes nurses, a physician and a secretary who are available Monday through Friday. Students wishing to see the nurse will be seen in order of arrival. To see the doctor, it is recommended that you make an appointment. Emergency situations will always have priority.

Records are strictly confidential. No information is released, for any reason, without the student's consent.

Health Services are supported by student fees, therefore, there is no charge to use the service. However, the doctor's services and the cost of any tests required are only paid by health insurance or provincial medicare plans.

Quebec students who do not have their Medicare cards, or who present cards that have expired, will be required to pay the full cost of services immediately.

Canadian students from another province are fully covered by their provincial medicare plans provided they:

1) inform the Ministry of Health in their home province that they are studying in Quebec before they leave home;
2) have their Provincial Medicare card with them when they come to see the doctor. If the card is unavailable or has expired, the full cost of services must be paid immediately.

International students (including Exchange students) must subscribe to the Health and Hospitalization Insurance plan offered through the University. Details of this plan can be obtained from the Business Office. The plan entitles the student to full medical coverage both here and at local hospitals.

International or exchange students from France, Denmark, Sweden, Norway, Finland, Luxembourg, and Portugal are eligible to apply for a Quebec Medicare card. This should be done as soon as possible after their arrival in Quebec. Information on how to apply can be obtained from Health Services or from the International Student Coordinator.

Anyone requiring further information about Health Services should telephone 819-822-9600, ext. 2696, or at www.ubishops.ca, Life at Bishops, Health Services.

Residence Life

At Bishop's University we believe that the residence experience is an integral part of the university experience and thus guarantee all of our first-year students a place in residence. Over 70% of our incoming class chooses to live in residence and each year 28% of our current residence students return for a subsequent year.

Bishop's University residences can accommodate 710 students in Traditional Style, Bog Style and Suite Style Residences. These three choices provide students with the opportunity to choose the residence that suits their individual life style. Mackinnon and Norton/Pollack are our traditional style residences accommodating students in both single and double configurations. Kuehner, Abbott and Munster are our Bog Style Residences. These Bogs accommodate students in single rooms and double rooms with adjoining bathrooms. Our newest residence, Paterson Hall, accommodates four students per suite each with their own private bedroom who share a common kitchen, living room and two full bathrooms. All of our residences have mandatory meal plans.

An important part of the Residence life program is the support that students receive while living in residence. This support comes from a well trained staff of upper year students who are employed as Resident Assistants. They are in the residences to help students with their transition to university life, and to promote a community atmosphere that focuses on mutual respect and consideration for all members of the residence community.

Students can also take advantage of living in one of our Living Learning Communities. Currently we have a leadership community and a community to promote sustainable living that we call our ECO Floor. If you are interested in applying to live in one of these communities visit our website for all the details.

Students will receive information about how to apply to residence in their admissions package and can go online to apply at that time. We encourage students to return their application as soon as possible as the priority for residence is based upon the date we receive the application.

For more specific information please feel free to contact Residence and Conference Services at:

Residence and Conference Services
Bishop's University
2600 College Street
Sherbrooke, Quebec J1M 1Z7
Tel: 1-819-822-9600 ext. 2685
Fax: 1-819-822-9615
e-mail *residence@ubishops.ca*

Off-Campus Housing Service

The Off-Campus Housing Service provides students with a list of suitable housing in the community. The lists are available on the Bishop's University website: *www.ubishops.ca*; simply click on Life at Bishop's and you will find Off-Campus Housing. You may also contact the office if you have any questions at 819-822-9600 ext. 2685 or via e-mail at *offcamp@ubishops.ca*

Those who would like to add housing opportunities to our list may contact us as above, or by fax at 819-822-9615.

Success Coaching

Adjusting to university life can be both exciting and overwhelming. Success coaching is about learning and making changes that support your growth, development and well-being while enhancing your capacity to deal with life transitions and challenges. Develop the skills that can help you become more successful in school and life in general. You'll work closely with a professional coach as you move towards your goals and learn to be accountable for your results. Students who have engaged in coaching have found it extremely helpful in areas such as planning and goal-setting, organizational skills, time management, creating more balance in their life, stress management, interpersonal skills, or enhancing their leadership effectiveness.

For additional information about success coaching, please contact the office at (819) 822-9600 ext 2255 or send an email to Diane Houde, dhoude@ubishops.ca. The Student Leadership Development Office is located in the Marjorie Donald Building, Room 216.

Security and Parking

The Bishop's Security Department is responsible for ensuring the safety and security of everyone on campus by enforcing the established rules, regulations and policies of the University. Working in conjunction with Student Safety, residence assistants and the parking Officers, our Security Officers are available 24 hours a day, seven days a week to provide emergency assistance.

In addition to monitoring security on campus through regular patrols, the Security Department manages all parking and driving regulations on campus, acts as a liaison between the University and the municipal police, and works with the student population in ensuring safety and crime prevention on campus. They also manage and maintain an inventory of all lost and found items on campus.

Parking regulations are available at the Security Office and on Security's web link. Students should have a copy of these regulations. For general guidance, all cars on campus must have a valid parking permit, either a pay and park ticket available at three conveniently located pay and park machines or a semester/yearly permit purchased at the Security Office.

For further information on parking regulations, policy enforcement, protecting yourself or your property, safety regulations and anything else that is related to security on campus, please refer to the Security link on the Bishop's website (www.ubishops.ca) or drop by the Security Office.

In case of an emergency, you may contact Security 24 hours a day at the numbers provided below.

Location: Dewhurst
Tel.: Ext. 2711 (internal lines) or
819-822-9711 (off-campus line)
Hours: Monday–Friday (for parking permits)
8:30 am–noon and 1:00 pm–4:00 pm

Student Government and Student Activities

Students' Representative Council (SRC)

The Bishop's University Students' Representative Council, founded in 1893, is an autonomous organization representing full-time and part-time students. The SRC represents students on most committees at Bishop's including Academic Senate, and the University Board of Governors.

The SRC provides numerous services and events for students. Through the VP Social and VP Academic offices, the SRC funds both academic and non-academic clubs. The SRC organizes Fall and Winter Orientation Week, Winterfest and the Grad Formal. The SRC offices are located on the first floor of the Student Union Building (mailbox level) and are open daily.

The SRC is governed day-to-day by the Executive Cabinet composed of the President (*srcpres@ubishops.ca*), VP Academic (*srcacad@ubishops.ca*), VP Student Affairs (*srcstu@ubishops.ca*), VP Social (*srcsoc@ubishops.ca*), the Director of Finance (*srcdfo@ubishops.ca*), and the General Manager (*akarpenk@ubishops.ca*). The Executive Cabinet plus five Student Senators, four Student Event Coordinators, four Student Affairs Representatives, make up the voting membership of the General Assembly. This large group convenes twice a month. Additionally the SRC employs two Communications Managers, the Environmental Officer, the Recording Secretary and Operations' Managers.

Mandate

The purpose of the Bishop's University SRC shall be:

i. To act as the official representatives of the students of Bishop's University in their relations with the administration of Bishop's University and the official representative of the students of Bishop's University in their relations with any other private or public organization including national, provincial, and international student organizations.

ii. To promote the welfare and interests of the Student Association (SA) including the promotion of artistic, literary, educational, social, environmental, recreational and charitable activities for the advancement of the interests of the members of the SA and the Bishop's community. The SRC shall also promote among members of the SA a sense of responsibility and cooperation in the achievement of these objectives.

iii. To safeguard the rights of the individual members of the SA, as given in the Bishop's University Charter of Student Rights and Responsibilities and as given in the Canadian and Quebec Charters of Human Rights and Freedoms.

Representation

Most committees at the university have at least one student representative. It is the role of the SRC to ensure that student concerns are heard.. The SRC also represents students on Senate (the highest academic body at the university) and on the Board of Governors (the highest non-academic body).

Clubs:

These are the current 2013 student clubs under the SRC – see *www.busrc.com* for a full list:

Social Clubs: Animation, Athletes in Action, Best Buddies, Big Buddies, Bishop's University International Students' Association (BUISA), Caribbean and African Student Association (CASA), Cheerleading Club, Dance Club, Environmental Club, Gamers Club, Gender Equity Centre, Karate Club, Men's Hockey Club, Men's Soccer Club, Men's Ultimate Frisbee, Outdoors Club, Perple Arts Co-operative Club, Photo Club, Pride Alliance, Rock Climbing, Running/Cross Country Club, Ski & Snowboarding Club (BU *Snow), Toastmasters, Ukrainian Club, Women's Volleyball

Religious Clubs: BeU Christian Ministries, Jewish Club

Academic Clubs: Biology Club, Bishop's University Mentoring and Tutoring (BUMT), Economics Society, Chemistry Club, Classics Society, Englit, Fine Arts Club, The History Association, Language Teaching Club, Le Club de Francais, Model United Nations, Modern Language Club, Political & International Studies Association, Pre-Med Club, The BU Undergraduate Psychological Society

SRC Charity Clubs: Bishop's University Cat Association, Free the Children, Mercy Ships Campus Network, Pet Connection, Shinerama Club, The World School Club

Non-SRC Clubs and Associations: Alpha Phi, Amnesty International, BU Commerce Society (BUCS), Bishop's/Champlain Refugee Sponsorship Committee, Campus Icarus, CPA Club, Drama Department, Chinese Connection Association,

Community Art Lab, Golden Key International Honour Society, ENACTUS, *The Campus* Newspaper

SRC Publications:

The Student Handbook - Distributed free to first-year students and sold to all others. *The Student Handbook* is a great way to stay organized. It is especially useful for first year students, offering information on Bishop's University policies, and helpful hints on life at Bishop's

The Mitre – This collection of poetry, stories, artwork, and photographs is the oldest university literary publication in Canada (1893). It is produced annually and collects submissions from students, faculty, alumni, and the local community.

The Quad – The Bishop's Yearbook is one of the treasured souvenirs of the university. It is published each year and lovingly compiled and edited by a team of students.

BUSRC Website – *www.busrc.com* allows for direct communication between students and executives via an open forum while also offering students information on upcoming events, activities, clubs, job openings, elections, etc. Check it out at *www.busrc.com*.

The Daily Dish – delivered to student email boxes Monday – Friday offers a glimpse of daily campus and community events.

SRC Operations:

BU Lounge/The Gait

The BU Lounge is open in The Gait space on Monday – Friday from 8:30 a.m. This is a relaxed spot to bring your lunch, do homework, and meet friends.

The Gait is the on-campus pub open each Thursday, Friday and Saturday, and it is also available for special events.

With a 365-person capacity, the Gait provides employment for students, as well as providing a safe environment for dancing and drinking on campus. The Gait is located on the ground floor of the Student Union Building and is operated by students for students.

Doolittle's Convenience Store

Doolittle's is the campus General Store/Dépanneur offering for sale grocery items. TransDev bus tickets, coffee, tea, beer, wine and tickets for on-campus events. The store is open seven days a week and is operated by students for students.

SRC Awards

SRC Merit Award

Chosen by SRC Executive, goes to a student/s who has rendered outstanding service to SRC in numerous areas.

Joseph E. Cassar Award

Chosen by the SRC General Assembly is given to the student who has contributed the most to the SRC during the past year.

Ray Lawson Award

Given to the returning student who, in the opinion of the SRC General Assembly has contributed the most to the life of the university.

Michel Fontaine Experience Award

Given to the student chosen by the SRC Executive who exemplifies the Bishop's Experience through campus leadership, athletics and/or community involvement. The SRC podium was made by Michel Fontaine's father in his memory.

Joy Chandler Community Involvement Award

Named in honour of the previous SRC manager, given to a person who helps bring BU students and the community together. This is usually given to a community member but can be given internally.

Joan & Alex Paterson Award

The selection Committee for this award, is comprised of the Dean of Student Affairs and the SRC Executive Cabinet. Awarded to a graduating student who during his or her years at Bishop's University, contributes the most to volunteer work and activities in the off campus community.

Golden Mitre Award

The Golden Mitre Awards are the highest non-academic honour that graduating students can receive. Recipients are elected by popular vote of the prospective graduating class.

Julie Bradshaw Memorial Award

Established in 2003 in memory of Julie Bradshaw '80 and given to the Golden Mitre winner with the highest number of votes.

Value: $550

Purple Letter Award

This award is given to those students who have made a consistent contribution to the life of the university and community and who might not otherwise be recognized for their efforts. Award winners are nominated by members of the university and the community.

Olga Reid Memorial Award for Journalism

Awarded annually to the student journalist or writer who, in the opinion of *The Campus* Editorial Board, has written the best article or series during the academic year.

Other Services and Facilities

Book Store

The University Book Store is located in the mall of Marjorie Donald House. The store carries required texts as well as reference materials, educationally-priced software, art supplies, CDs, stationery supplies, and a large selection of current bestsellers, classics, new releases, and more in the general reading section. Special orders for books can be accepted. Greeting cards, class rings, crested clothing, bags and gift items are also available. Textbooks can be ordered online at www.efollet.com. Visa, MasterCard and debit cards are accepted. The Book Store is open Monday through Friday, from 8:30 a.m. to 5:00 p.m. and somes Saturday from 10:00 a.m. to 4:00 p.m.

Campus Tours

Our campus is best experienced live! In fact there is no better way to see if a university is the right fit for you than to visit. At Bishop's we make this very easy, we offer personalized tours almost every day of the week.

Your student tour guide will show you the campus and introduce you to life at Bishop's. If you are visiting on a weekday, you will meet with an admissions officer and, if interested, you can attend a class, talk to a professor or coach and meet with student services counsellor. If the weekend suits you better, we will ensure that you get a comprehensive tour of our beautiful campus. In addition all visitors have the chance to have a bite to eat in our dining hall – on us! Depending on the timing of your visit, you may also be able to attend a play, concert or a sports match. We'll do everything possible to make the arrangements necessary to ensure the best possible campus visit.

The easiest way to schedule your visit is online at *www.gobishops.ca*. Simply create a GoBishops account, click on "Visit" and select your tour date and time. The best time to visit is on a weekday when school is in session, from mid-September through mid- July, so you can see a typical day at Bishop's. Please schedule your tour at least four days in advance of your arrival.

For more information and scheduling a campus tour, please contact:

The Bishop's University Recruitment Office
Toll-free tel: 1-877-822-8200
Tel: 819-822-9600 ext. 2681
E-mail: recruitment@ubishops.ca

Information Technology Services

ITS, comprising the Client Services Centre, and the Cole Computer Centre, provides a range of technology services for students, faculty and administrative staff.

The **Client Services Centre**, a service-oriented facility, located in the Johnson Building, supports 75 multimedia classrooms; the Language Lab and the Music Room; and provides classroom equipment, videotaping, videoconferencing, projection, scanning, CD/DVD-writing and colour printing services.

The **Helpdesk**, also located in the Johnson Building (J107), is available to answer computer and network related questions.

The **Cole Computer Centre** maintains the main computer systems for the university. A high-speed network serves administrative and academic offices, research, library, residence and student lab needs. Internet and internal networking is provided for Windows, Mac and Unix servers and about 700 desktop computers. Free wireless connectivity is provided in the library, the classrooms, meeting rooms and public areas across campus.

Standup e-mail work-stations for all students, staff and faculty are located around the campus. The Centre maintains all equipment and systems, and also provides management, development and support for a general suite of desktop applications, institutional data and business processes. Six general-purpose labs (including five iMac dual boot labs) and several departmental labs provide a ratio of one computer for every 10 students, 15 laptops are available to students for Library work and many courses offer online material. All residence rooms are wired, and almost 90% of residence students bring their own computer.

ITS provides part-time employment and workplace experience for more than 20 students each year.

Cormier Centre of International Economics

The Cormier Centre was founded in 1989 to promote research in international economics, to study the impact of economic policy on business, and to contribute to economic information, communication and education. The Centre sponsors conferences and visiting scholars, supports research projects and promotes academic/business joint projects with an international orientation.

For information, contact: Dr. Marianne Vigneault, e-mail: *mvigneau@ubishops.ca.*

Cultural Affairs

Superb facilities support a dynamic cultural life on the Bishop's campus. With direct support from the Student Services fees, Centennial Theatre and the Florence Foreman Art Gallery bring performances and exhibitions of international calibre into the campus community throughout the academic year. Student participation in all aspects of the arts — from helping to select programming to mounting productions — is encouraged not only in Centennial Theatre and the Art Gallery, but also in the venues of Bandeen Recital Hall and the Turner Studio Theatre. Work-study programs in all the cultural venues offer hands-on experience in virtually every aspect of the cultural industry: programming, promotion, technical production, marketing and arts management. In addition, there is plenty of opportunity for volunteer participation.

Artists who have recently visited campus include Leahy, The Gryphon Trio, The Rubberbandance Group, Berlin's 17 Hippies, Holly Cole, Theatre of Early Music and The East Village Opera Company.

Festivals of student-directed and written plays, an extensive schedule of musical productions, and a wide-ranging series of visiting lecturers add richness to cultural life on campus.

Peter D. Curry Wildlife Refuge

Three-hectares required for wetland development, as well as an additional eleven hectares of surrounding uplands, as wildlife habitat, are used exclusively for conservation on the Bishop's campus. It serves as a field laboratory and observation area for biology, environmental studies and geography students, as well as a focus for local birdwatchers and naturalists. Named after Bishop's alumnus and donor Peter D. Curry, in recognition of his commitment to both conservation and education, the wetland was developed with the co-operation of Ducks Unlimited.

Daycare

The Panda Daycare Centre, which is located on the Bishop's campus, has space for 140 children from newborn to 5 years of age. Interested parents are urged to make application as early as possible. For information, telephone 819-346-1414.

Dobson-Lagassé Centre for Entrepreneurship

The Centre is a co-operative venture funded by the John-Dobson Foundation, the Lagassé Family Foundation, the SEED Foundation, Bishop's University, and several private individuals and organizations. It is located on the Bishop's Campus and is affiliated with the Williams School of Business.

Established in 1998, it has a dual mission: to broaden student entrepreneurship education and prepare them for life's projects, and to stimulate entrepreneurship in the Eastern Townships in co-operation with other organizations dedicated to similar purposes. The Centre also provides guidance and services for Bishop's University members of ACE, the National Association of Student Entrepreneurs.

The Centre works very closely with the Williams School in the teaching of Entrepreneurship at the University. A sequence of 3 courses in Entrepreneurship is open to all Bishop's students.

The introductory course is offered each semester and uses new venture creation and the production of a business plan as a focus.

A second guided study course focuses on opportunity recognition, feasibility analysis and risk management and requires detailed analysis of live entrepreneurial situations & community development needs.

The third course also entails working with a live business and relies on the student's past experience to take a leadership role and guide the project to a successful outcome for the entrepreneur. The live case experience is complemented by lectures in advanced entrepreneurship and workshop-style tutorials.

Interaction with community organizations and businesses is a key element in the program. Students in the two advanced courses work with entrepreneur businesses on specific projects coordinated by the Centre. A co-op program in the student's field of interest is available on a selective basis.

A minor in entrepreneurship is offered to students who are not enrolled in a business program. The Bishop's Liberal Arts experience is clearly enhanced from the exposure to entrepreneurship, taught in the context of the pursuit of an opportunity in any field.

For more information visit our website at: www.dobsonlagasse.ca or, contact us directly at:

The Dobson-Lagassé Entrepreneurship Centre,
4, Harrold Drive, Bishop's University.
819-822-9600, ext. 2701, Fax: 819-822-9731
or by e-mail: entrepdb@ubishops.ca.

Eastern Townships Resource Centre

The ETRC's mission is to act as a resource centre for the study of the Eastern Townships of Quebec. While the Archives Department concentrates on the acquisition of private archives related to the English-speaking community, the Centre's mission, mandate and ongoing activities are meant to be inclusive of all linguistic and cultural communities present in the Eastern Townships.

The ETRC's mandate is threefold:

To provide the necessary materials and infrastructure for knowledge transfer between academics and key players in socio-economic development and in community organizations. Knowledge transfer includes:

Print and online dissemination: the *Journal of Eastern Townships Studies* (JETS), the *Newsletter* and the website;

Events: book launches, colloquia, conferences, exhibits, and lectures.

To acquire, process, preserve, and provide access to archival fonds and collections from the Eastern Townships' English-speaking communities past and present. The ETRC Archives Department has been accredited by the Bibliothèque et Archives nationals du Québec since 1991.

To function as a focal point for community service and community-based learning by establishing partnerships with community organizations, acting as a liaison between the University and surrounding regional groups, and contributing to experiential learning.

Located in the Old Library (McGreer Hall), the ETRC Archives Department is open from 8:30 a.m. to 12:00 p.m. and 1:00 p.m. to 4:30 p.m. Monday through Friday. For information about the archives contact our archivist, Jody Robinson, ext. 2261. For information about Centre activities contact: Fabian Will, Executive Director 819-822-9600 ext. 2647.

Financial Aid

The Financial Aid Office located on the 1st floor in McGreer provides students with information and assistance in applying for various federal and provincial government loan and bursary programs. Further information can be obtained from the University's Business Office at 819-822-9600 ext. 2655 or 2205.

Florence Foreman Art Gallery

As a vibrant part of university life at Bishop's University, the Foreman Art Gallery serves as a strong link to the community of Lennoxville and Sherbrooke as well as an active site of scholastic research about contemporary art and curatorial practice. The Gallery is named in honour of the late Florence May Foreman, formerly of Vancouver B.C., who left to the University the largest bequest in its history.

The Foreman Art Gallery of Bishop's University is committed to art presentation and discourse, as well as the exploration of diversity of culture. The Gallery achieves its goals through its programming of exhibitions of contemporary and current art by professional artists. These exhibitions are presented with the objective of generating curiosity, revisiting history, and provoking public debate on cultural and social issues. Through its COMMUNITY ART LAB it seeks to redefine the limits of museum work by engaging with issues common to artists and gallery visitors through films, discussion groups, workshops and presentations.

The Foreman Art Gallery shows the work of professional visual artists in innovative ways, focusing on thematic curated exhibitions part of the following series: *Social Currents* (thematic curated group exhibitions): *New Voices* (highlight on an emerging female artist) and *Carte Blanche* (regionally-focused curated group exhibitions). The gallery also produces a graduating fine art student exhibition each spring.

Since 1998, 40 bilingual exhibition booklets, self-guided tour booklets and leaflets, 4 edited catalogues, and 9 group and solo exhibition catalogues have been produced. Of these are noteworthy examples: *Irene F. Whittome: Conversation Adru* (winner of a Graphika prize, 2007): *Denyse Thomasos: Epistrophe* (winner of a Graphika prize, 2007): and *At the Crossroads of Art and Medicine* (winner of a Graphika Prize 2009).

Admission to the gallery is free. The Foreman Art Gallery is located adjacent to the lobby of Centennial Theatre. Hours: Tuesday–Saturday, from 12:00 p.m. to 5:00 p.m., and all evenings when Centennial Theatre is open. For general information:

Vicky Chainey Gagnon, Director/ Curator
819-822-9600, ext. 2687
Gallery: 819-822-9600, ext. 2260
Fax: 819-822-9703
Website: *www.foreman.ubishops.ca*

Bishop's University also has a permanent art collection of 400_{+} works, with an emphasis on Canadian art from the 19th and 20th centuries. The Bishop's University Art committee is chaired by the University Librarian, and is composed of representatives

from staff, faculty, students and community members. Art works are displayed in outdoor and indoor venues, buildings and offices across the campus. Catalogues showcasing some pieces of the collection are available from the Art Collection Technician: Merrylou Smith (819(822-9600, ext. 2561

International Exchange Program

www.ubishops.ca/int-exch/index.html

Bishop's University encourages all students who qualify to spend a semester or two abroad at one of our 700+ linked campuses around the world. Successfully completed pre-approved course credits taken on exchange are transferred to your Bishop's degree. Marks/grades obtained at the host university are not included in the calculation of your cumulative average at Bishop's upon your return. Students may continue to receive financial aid for which they are eligible at Bishop's.

To be accepted into the Exchange Program, Bishop's students must meet the following criteria:

- obtain and maintain a 70% cumulative average in the equivalent of at least one year of full-time study, in a degree program, prior to departure to a host university
- assume travel and living costs, health insurance, and personal expenses, during their exchange abroad
- receive written permission to participate from the Dean of their respective academic program
- demonstrate proficiency in the language of the host university

Tuition and fees (for 15 credits) and student service fees are payable to Bishop's, and in most cases, accommodation and meals are paid to the host university. Additional criteria may pertain in some exchanges. Students planning to apply are asked to consult with the Coordinator of International Students (McGreer 210), and then with their Dean. Students must obtain prior approval from their program chair at Bishop's for all courses they intend to take at their host university.

International Student Advising

Bishop's University extends a warm welcome to all Exchange and International Students and our campus provides the perfect opportunity to become fully immersed in student life while learning and living alongside the Francophone and Anglophone communities. International and Exchange Students play an important role at Bishop's, enriching our diversity, and the International Students Office is devoted to supporting these students for the duration of their stay.

Coordinator of International Students
Coordonnatrice des étudiants internationaux
Bishop's University
2600 College Street
Sherbrooke, Quebec
JIM IZ7 CANADA
Tel: 819-822-9600 ext 2212
Fax: 819-822-9661
Email: *dmills@ubishops.ca*
www.ubishops.ca

Library

The John Bassett Memorial Library houses a collection of nearly 600,000 items, including books, journals, sound recordings, movies, and other audiovisual and non-print materials. The catalogue and most of the library's electronic resources, such as online periodical databases, can be searched from on or off campus through the library website. The Interlibrary Loan service, which is free of charge, provides access to additional resources not owned by the University.

The facilities include ten seminar rooms and numerous group study areas, as well as individual study carrels for more than 400 users. There are several comfortable lounge areas, including the periodical reading room, where students can relax, chat with friends, and enjoy a snack or a drink. Listening stations provide access to the extensive assortment of records and CDs in the music collection. The Language Lab includes workstations dedicated to special language learning software and three private cubicles for oral practice. Students have access to iMac computers in the Computer Lab, and wireless laptops are available to borrow for in-library use. The library is completely wheelchair accessible.

Orientation sessions are conducted by the Reference Librarians throughout the year. The sessions, usually presented to individual classes, can be general and introductory or designed to meet the needs of a specific class or topic. Librarians also teach one-credit courses in Information Literacy and Critical Thinking, which are taken as lab components of research-based courses offered through other departments. Sessions are taught in the library classroom, which is equipped with wireless laptops, allowing for interactive learning and practical experience. Individual assistance is available at the reference desk, or an appointment can be made with a librarian for extended research consultation. Guides and study aids for research in all academic disciplines are available on the library's website.

The Archives and Special Collections Reading Room is located in the Old Library, McGreer Hall. This room, which was the original location of the University Library, has been restored and now serves as the reference/reading area for the University's Archives, the Library's Special Collections, and the Eastern Townships Research Centre. Special Collections, developed in a number of fields, include rare books, historical pamphlets, maps, microfilms, and archival material. The P.H. Scowen Eastern Townships Historical Collection is an important resource for historians and other researchers of local history. The Mackinnon Collection of Canadiana includes many rare and valuable books and pamphlets relating to Canadian history and biography. Materials in the Belanger-Gardner Collection are devoted to the history of world civilization. Rare and unusual books of 17th and 18th century theology, history, and literature have been donated from the personal libraries of such prominent people as the Rev. George Jehosaphat Mountain, 3rd Anglican Bishop of Quebec and co-founder of the University.

More detailed information, such as hours of service, staff members, new acquisitions lists, and more can be obtained by consulting the Bishop's University Library website at *http://www.ubishops.ca/library_info/*

Mathematics-Statistics Help Centre

The Math-Stats Help Centre is located in Johnson 4. Our friendly, knowledgeable staff help students individually or in small groups to perfect their mathematical skills, work on their assignments, understand mathematical concepts and study for their exams. This service is free to all Bishop's University students and no appointment is necessary. For more information, contact Scosha Merovitz at 819-822-9600 ext. 2722 or smerovit@ubishops.ca.

Theatres

Bishop's Centennial Theatre, built in 1967, contains a charming and efficient main theatre seating 550, a spacious lobby, a vast workshop, a rehearsal room, dressing rooms, a Green Room, and the administrative offices. Equipped to the newest standards since the renovations of 2006, it provides an excellent learning facility as well as a splendid focus for professional artists on tour and the annual large-scale Drama Department production. Students are offered every chance to work on the various aspects of the incoming or in-house productions.

The Turner Studio Theatre functions as a dynamic multi-purpose environment for traditional and experimental presentations. Opened in March 1989, it seats up to 150 people in a technically sophisticated yet intimate space which can adapt to the special needs of theatre. As a laboratory and teaching resource, the Studio Theatre provides a creative context in which students can develop their professional skills. The Drama Department produces 2 annual Festivals of student plays as well as four other productions directed by the Drama Department teachers and professors.

University Chapel of St. Mark's

St. Mark's Chapel is a sacred place on the campus known for its beauty and peaceful atmosphere. The Chapel was consecrated in 1857, was enlarged in 1875, and interior additions to the fabric were completed in 1898, when the present magnificent carved oak stalls and panelling were installed. These were executed by French-Canadian craftsmen and are arranged on the pattern of the traditional collegiate church. The other furnishings, stained glass windows, memorial plaques, the organ, the sanctuary lamp, the lectern bible, all reveal parts of the University history. In 1989, the Chapel was declared a historic site by the Quebec Ministry of Cultural Affairs.

Sunday and weekday services are held regularly in the Chapel during the academic year and the Chapel is open daily from 7:00 a.m. to 7:00 p.m. The Sunday service is at 10:00 a.m. and Morning Prayer is held each weekday at 8:15 a.m. Special services and concerts are held at various times and are publicized throughout the University and the local community. The administration of St. Mark's and its services of worship are the responsibility of the Campus Minister.

The Student University Centre

The Student University Centre is the heart of student activity on campus and is comprised of three adjoining buildings: Bishop Mountain House, Memorial House, and Marjorie Donald House.

Bishop Mountain House houses both Bishop's University and Champlain Regional College student government offices, the Diversity and Equity Centre, the Campus newspaper and various club offices. Doolittle's, situated on the first floor near the student mailboxes and campus post office, is a student-owned and operated "dépanneur" (convenience store) where newspapers, snacks and bus tickets may be purchased and where videos may be rented. Tim Horton's, located on the second floor, is well-equipped with floor to ceiling windows and a breath-taking view of the campus.

Memorial House contains the Gaiter Grill while the newly renovated student bar, 'The Gait', also serves as a multi-purpose reception room and examination hall. The International Centre overlooks an outdoor patio.

Marjorie Donald House is the home of the University Bookstore, operated by Follett of Canada. On the second floor are found the offices of the Dean of Students Affairs, the LEAP (co-curricular Office), The Leadership Office, the Counselling Services, the Career & Employment Office, the Campus Ministry, and the Student Accessibility and Accommodation Services Office, lab and exam centre.

A spacious atrium connects the three buildings and provides an open and comprehensive space for informal gatherings, promotional tables and various sales of plants, posters, jewelry, and clothing. All facilities are wheel-chair accessible.

The Writing Centre

The Bishop's University Writing Centre is located in Divinity House. The Writing Centre's Consultation Service offers free appointments for students who would like help with their written assignments, and free Workshops to help students improve their written work. For further information, see EWP under "Academics" on the Bishop's home page, or contact the Coordinator, Writing Centre, Divinity House. Tel: 819-822-9600, ext. 2400.

Scholarships, Loans, Bursaries and Awards

Scholarship Program

Historically, most of the scholarships awarded under the Bishop's University Scholarship Program were established by gifts from individual or corporate benefactors, some made over 155 years ago. The Bishop's University Foundation has provided the funds necessary to raise these scholarships to amounts more in keeping with the needs of present day students, as well as funding new scholarships to keep pace with the growth of the scholarship program as a whole. The University is grateful to the many donors who support our scholarship program.

Entrance Schol arships

No formal application is required for most entrance scholarships. All applications for admission received by the March 31 deadline from CEGEP, Canadian high school, IB Diploma, and selected international secondary school students who have graduated within two years of registering at Bishop's University are eligible for scholarship consideration.

Scholarship offers, including information regarding conditions of the scholarship offer, will be made with the offer of admission.

Applicants from Canadian grade 12 high schools are guaranteed

$1000 per academic year with 80 to 84.9% averages*; 82 to 84.9% for applicants to Educational Studies

$2000 per academic year with 85 to 89.9% averages*

$3000 per academic year with averages* of 90% and higher

Applicants from the Quebec CEGEP system are guaranteed

$2000 per academic year with an R-Score* between 28-31.9

$3000 per academic year with an R-Score* greater than 32

IB applicants are guaranteed

$1000 per academic year with an IB score* between 28-29

$2000 per academic year with an IB score* between 30-35

$3000 per academic year with an IB score* greater than 36

** Admission average is used for scholarship consideration*

Students must:

1. maintain the required average/grade on their final transcript to confirm their scholarship award. Should that average not be achieved, the scholarship will be reduced to the appropriate value or forfeited.
2. successfully complete the required level of studies (Grade 12 Diploma, OSSD with at least 6 U/M level courses, D.E.C., IB Diploma) before they register for their first semester at Bishop's. Should their studies not be completed, the scholarship is forfeited.
3. accept the offer of admission/scholarship by May 31 by completing the electronic form and paying the $100 confirmation.

Dean's & Named Scholarships

There are also a number of other Dean's and Named Scholarships ($4000 per academic year) available each year. All applicants granted a $3000 scholarship are encouraged to apply via the Financial Awards and Bursaries application that is made available electronically to admitted students. Completed applications must be submitted by March 31st. Dean's and Named Scholarships, when awarded, replace the earlier $3000 scholarship.

Winter Entry Scholarships

Students who are commencing their studies for the first time in the Winter semester, are eligible for a half-scholarship for their first semester, provided they have applied before November 1 and accepted their offer of admission by December 1.

Scholarship Payment

1. Scholarships are paid to a student's account in two equal installments after the Add/Drop deadline in the Fall and Winter semesters. If the value of the scholarship exceeds the amount charged to the student account for that semester, the balance of that semester's payment is credited to the following semester.
2. In order to receive scholarship funds, a student must be a registered full-time student (minimum 12 credits) in both the Fall and Winter semesters.

   Exceptions:

   a) Students in their final semester who require fewer than 12 credits to graduate may petition the Registrar to retain their full-time status, and receive a pro-rated award.

   b) Students on a recognized Bishop's University Exchange program.
3. In order to receive the Winter installment of a scholarship, students must:

   a) complete their Fall semester studies at Bishop's with an average of at least 70% AND

   b) be registered at Bishop's on a full-time basis (minimum 12 credits) for the Winter semester.

   Should the student's average fall below 70%, or should they register in fewer than 12 credits, their scholarship is lost effective that Winter semester.

Entrance Scholarship Renewal

1. All entrance scholarships are renewable for a maximum of 120 course credits. This may include Bishop's graduates continuing into the Bachelor of Education.
2. In order to renew an entrance scholarship, students must:

   a) complete a minimum of 30 credits (including lab credits) in the previous September to August at Bishop's University

   Note: Courses taken at another institution on a Letter of Permission and non-credit English as a Second Language courses are not included in the 30 credit minimum nor in the calculation of the student's academic average for scholarship purposes.

b) have obtained a minimum average of at least 80% calculated on their best 30 credits from the previous September to August.

Exceptions:

a) A student on a recognized Bishop's Exchange must complete a full time credit course load with first class average (as determined by the ASAP committee) at the exchange institution for scholarships with a total value under $3000 or with an average equivalent to 85% for scholarship awards with a total value of $3000 or more.

b) Students commencing their studies in the Winter semester must complete at least 15 credits and maintain an average of at least 80%.

3. Students who lose a larger scholarship because their average falls below 85% will receive the appropriate lesser scholarship amount, should they qualify.

Continuing Student Scholarships

Students who did not receive an entrance schaolarship upon admission to Bishop;s University may be eligible to receive scholarship through the University's Continuing Student Scholarship Program during their upper years. To be eligible for a scholarship, a student must:

a) complete and submit a scholarship application form to the Admissions Office before may 31:

b) complete a minimum of 30 credits (including lab credits) in the previous September to August at Bishop's University

Note: Courses taken at another institution on a Letter of Permission and non-credit English as a Second Language courses are not included in the 30 credit minimum nor in the calculation of the student's academic average for scholarship purposes.

c) have obtained a minimum average of at least 80% calculated on their best 30 credits from the previous September to August

Exception: Students participating in an internship, co-op placement, or practicum will have their file evaluated by the ASAP Committee.

d) be registered in their first undergraduate degree and.

e) be registered as a full-time student in the upcoming Fall semester.

Students who complete the academic year fulfilling the above conditions will be awarded a scholarship for the following academic year. The value of these awards varies depending on academic performance. Continuing scholarships are not renewable and must be applied for each year.

Students are notified of scholarship awards by e-mail sent to their Bishop's University e-mail account before August 15.

Major Entrance Scholarships

Value: $4000 per year, renewable

ALAN and DOROTHY WILLIAMS SCHOLARSHIP IN BUSINESS

(established by David A. Williams '63, DCL 1996, in memory of his parents)

Awarded on academic standing to the top student entering the Business program.

STANLEY MILLS SCHOLARSHIP IN HUMANITIES

(established in 1995 by the G.H. Stanley Mills Memorial Trust in memory of G.H.S. Mills '43, benefactor)

Awarded on academic standing to the top student entering the Division of Humanities.

BISHOP'S MEMORIAL FUND SCHOLARSHIP

(founded in 1990 to commemorate former students, faculty, administration and friends of Bishop's University)

Awarded to a student entering a B.Sc. program. Preference given to a Quebec student.

DEAN'S SCHOLARSHIPS

(established in 2002, funded by the Foundation of Bishop's University)

Awarded to outstanding applicants based on academic standing and evaluation of the student's dossier.

Other Entrance Scholarships

Value: from $1000 to $3000 per year, renewable

More than one of each scholarship may be available in any year.

ALUMNAE

(provided by the Bishop's Alumnae Fund).

Preference given to female relatives of Bishop's graduates.

ALUMNI

(provided by the Bishop's Alumni Fund).

Preference given to male relatives of Bishop's graduates.

ALUMNI JUBILEE

(provided by the Bishop's Alumni Association, in honour of those who graduated more than 50 years ago).

Preference given to male or female relatives of Bishop's graduates.

AMERICAN ENTRANCE

(established in 2000 and funded by the Bishop's University Foundation)

Awarded to outstanding applicants from American high schools.

BANQUE NATIONALE

(endowed through the Partners in Learning Campaign, 1998-2003)

SIR EDWARD BEATTY MEMORIAL

(founded by a bequest in the Will of Sir Edward Beatty DCL '27)

BMO FINANCIAL GROUP

(endowed through the Partners in Learning Campaign, 1998-2003)

BOARD OF GOVERNORS

(awarded in honour of the Board of Governors of Bishop's University)

LA FONDATION J. ARMAND BOMBARDIER
(endowed in 1996 by la Fondation J. Armand Bombardier)
Awarded to an outstanding Quebec student.

BOROUGH OF LENNOXVILLE
(endowed through the Partners in Learning Campaign, 1998-2003)
Awarded to a student who has been a long-time resident of Lennoxville.

CHIEF JUSTICE BOWEN
(founded in 1972 by an anonymous donor in honour of Edward Bowen, DCL 1854, Chancellor 1856-58)

HOWARD BROWN MEMORIAL
(funded by a bequest in the Will of Howard Brown, DCL 2001, founder of the Department of Music and Professor of Music from 1967-83)
Awarded to an entering student majoring in Music.

ROBERT BRUCE
(founded by a bequest in the Will of Mr. Bruce, a native of Scotland who lived in Quebec from 1835 until his death in 1885)

CANADIAN NATIONAL
(endowed through the Partners in Learning Campaign, 1998-2003)

ARCHDEACON R.H. COLE
(founded in 1981 with part of a bequest in the Will of the Venerable R.H. Cole)

DAVIES CHARITABLE FOUNDATION EASTERN ONTARIO
(endowed in 1996 by the Davies Charitable Foundation in Kingston, Ontario)
Preference given to scholars from the Kingston/Belleville/Brockville area.

O.H. DE SÉVIGNÉ SCHOLARSHIP in the CREATIVE and PERFORMING ARTS
(endowed in 1992 by Oscar H. de Sévigné ’37)
Awarded to a student entering the Drama, Fine Arts or Music Departments with a first class academic average and high quality creative or performance skills.

IAN DOBELL
(endowed in 2005 by a bequest in the Will of Ian Dobell ’74)

EATON
(established by the Eaton Foundation in 1948)

FOUNDATION OF BISHOP’S UNIVERSITY
(funded by the Bishop’s University Foundation)
Preference given to students from outside Quebec.

CHIEF JUSTICE GREENSHIELDS MEMORIAL
(founded by a bequest in the Will of Chief Justice Greenshields DCL ’31, Chancellor 1932-42)

ELIZABETH GRIFFIN ARTS SCHOLARSHIP
(endowed through a bequest in the Will of Elizabeth Griffin ’36)
Awarded annually to entering students in Humanities or Social Sciences.

JOHN HAMILTON
(Chancellor 1900–1926)

HAY FOUNDATION
(funded annually by the Hay Foundation since 1998)
Preference given to a student from Quebec.

HOLT FOUNDATION SCHOLARSHIP
(founded in 1990 by Mrs. Pam Dunn DCL ’99 in honour of her father W.R.G. Holt and her grandfather Sir Herbert Holt DCL ’29, and her children, four of whom attended Bishop’s)
Awarded to an outstanding student entering a Modern Languages program.

HYDRO QUEBEC
(endowed through the Partners in Learning Campaign, 1998-2003)
Preference will be given to students from Quebec.

LINCOLNSHIRE FOUNDATION
(funded annually since 1994, by Eric and Jane ’63 Molson)
Preference will be given to students from Quebec.

LESLIE MCCAIG MEMORIAL
(established anonymously in 2000 in honour of alumnus Leslie McCaig ’35 who was killed in active service during WW II)
Awarded to a student entering Humanities who is pursuing a major or honours program in English or History.

J.W. MCCUBBIN IN CHEMISTRY
(established in 2000 to mark the 50th anniversary of the Chemistry Department and to honour one of its founding professors. Dr. J.W. “Wally” McCubbin came to Bishop’s in 1946, was a popular teacher and served as department head several times and later as Dean of Science until his retirement in 1972.)
Awarded to the top entering student in Chemistry or Biochemistry.

S.R. McMORRAN
(established in 1999 by Bud McMorran ’60, DCL ’04, member of Bishop’s Corporation 1989-1997, and Chairman of Bishop’s Foundation 1998-2010)
Preference given to students in the Division of Humanities.

DR. SIDNEY MEDINE
(endowed through a bequest in the Will of Sidney Medine ’35)
Multiple scholarships awarded to students of Canadian citizenship who demonstrate academic excellence.

RODNEY S. MILLS
(endowed by Rod Mills ’53 through the Partners in Learning Campaign, 1998-2003)
Preference given to students in the Williams School of Business who plan to add an international focus to their studies.

JOHN H. MOLSON
(founded in 1972 by John H. Molson DCL ’48, Honorary President of the Corporation of Bishop’s University)

THE MOLSON FOUNDATION
(endowed through the Partners in Learning Campaign, 1998-2003)

DONALD MONTGOMERY SCHOLARSHIP
(funded annually since 2002 by Don Montgomery '75)
Preference given to a long time resident of Lennoxville.

NORAH MOORHEAD MEMORIAL SCHOLARSHIP
(established by David Jones '76 in honour of Norah Moorhead DCL '86, who devoted her life to the service of education, the Anglican Church, and projects in developing countries)
Preference given to a student from Richmond, QC or elsewhere in the Eastern Townships who is pursuing a Bachelor of Arts, major in English or History.

JASPER NICOLLS EASTERN TOWNSHIPS
(established by a bequest in the Will of A.D. Nicolls, in memory of his father Jasper, the first Principal of Bishop's University)
Preference given to a student from the Eastern Townships.

POWER CORPORATION
(endowed through Partners in Learning Campaign, 1998-2003)

QUÉBÉCOR INC.
(endowed through Partners in Learning Campaign, 1998-2003)

SCOTIABANK
(endowed through Partners in Learning Campaign, 1998-2003)

FRANK R. SCOTT SCHOLARSHIP
(established in 1985 by alumni in memory of Frank R. Scott '19, DCL '70, constitutional lawyer, poet and humanist)

H. GREVILLE SMITH MEMORIAL
(founded in 1976 with a bequest in the Will of H. Greville Smith DCL '67)
Preference given to students in Natural Sciences.

SUSAN SHARP MEMORIAL
(founded in 1962 by Mr. W.O. Sharp and Miss Helen Sharp in memory of a former Bishop's student)

CITY OF SHERBROOKE
(endowed in 1993 in honour of the University's 150th Anniversary)
Preference given to a student from Sherbrooke.

TD INSURANCE MELOCHE MONNEX
(funded annually since 1994, as an affinity partner of the Alumni Association)

RICHARD TOMLINSON
(endowed in 1999 by Richard Tomlinson '43, DCL '89)
Multiple scholarships awarded to students who demonstrate academic excellence.

UNIVERSITY ADMISSIONS
(funded by the Bishop's University Foundation)

VAN HORN MEMORIAL
(founded in 1991 by Aleda Van Horn and friends in memory of her husband William '42, a member of the Bishop's Chemistry Department 1959-86)
Awarded to a student entering Chemistry or Biochemistry.

WALKER
(founded in 1884 by Miss Helen Walker in memory of her parents, Margaret and The Honourable William Walker DCL 1856, Chancellor 1853-56)

WATERVILLE TG INC.
(endowed through the Partners in Learning Campaign, 1998-2003)
Preference given to a Business student from Waterville or the Eastern Townships.

ERIC T. WEBSTER FOUNDATION
(endowed in 2004 through a bequest from Eric T. Webster, friend of Bishop's and father of Norman '62, William '67 and Maggie, stepfather of Mark Armitage '69)
Preference given to a student from the Eastern Townships or Montreal.

HUBERT GRAY WELSFORD
(founded in 1969 by a bequest in the Will of Hubert Welsford DCL '66)

Major Upper Year Scholarships

Value: $4000 per year, renewable, unless otherwise indicated

These scholarships are awarded on a rotating basis, and may not be available every year.

STANLEY MILLS SCHOLARSHIP IN HUMANITIES
(established in 1995 by the G.H. Stanley Mills Memorial Trust in memory of G.H.S. Mills '43, benefactor)
Awarded to the most improved Humanities student entering their second year.

STANLEY MILLS SCHOLARSHIP IN HUMANITIES
(established in 1995 by the G.H. Stanley Mills Memorial Trust in memory of G.H.S. Mills '43, benefactor)
Awarded to the top Humanities student entering their third or final year.

ALAN AND DOROTHY WILLIAMS SCHOLARSHIP IN BUSINESS
(established by David A. Williams '63, DCL '96, in memory of his parents)
Awarded to the most improved Business student entering their second year.

ALAN AND DOROTHY WILLIAMS SCHOLARSHIP IN BUSINESS
(established by David A. Williams '63, DCL '96, in memory of his parents)
Awarded to the top Business student entering their third or final year.

Other Upper Year Scholarships

ANDREA AND CHARLES BRONFMAN
(endowed through the Partners in Learning Campaign 1998-2003)
Value: $1,000
Awarded to a student in Canadian Studies. Preference given to a student who explores the Canadian parliamentary system, perhaps through a tour to Ottawa. Selected by the members of the Department of Politics and International Studies.

CHEVALIER MEMORIAL SCHOLARSHIP

(established in 2011 through a bequest in the Will of Louise Chevalier '53, DCL '90)

Value $2,000

Preference to a female student studying in Sociology, in particular in the Gender, Diversity and Equity Studies Concentration.

CAPTAIN MELVILLE GREENSHIELDS MEMORIAL SCHOLARSHIP

(established in 1921 by the late J.N. Greenshields, K.C. as a memorial for his son Melville who was killed in action on June 7, 1916 during the Battle of Ypres. Intended originally to provide one student from Bishop's College School with his university education at McGill, it now enables several students to strive for academic excellence at institutions of their own choosing. Funded annually by the Elizabeth Greenshields foundation.) This scholarship replaces lesser Bishop's scholarships if awarded.

Value: $5,000 per year

HOLT FOUNDATION SCHOLARSHIP

(founded in 1990 by Mrs. Pam Dunn DCL '99, in honour of her father and her grandfather, Sir Herbert Holt DCL '29, and by her children, four of whom attended Bishop's)

Value: $2,000, renewable

Awarded to the top student in a Modern Languages program.

KRUGER INC. SCHOLARSHIP IN ENVIRONMENTAL STUDIES

(established in 1994 by Kruger Inc.)

Value: $1,000, normally one year only

Awarded to a student in the second or third year of a major or honours program in Environmental Studies who has achieved high academic standing and who is not already a scholarship holder. Selected by the Department.

SIR HERBERT MEREDITH MARLER MEMORIAL

(founded in 1990 by members of the Marler family, in honour of Sir Herbert Marler DCL '38)

Value: $1,000, normally one year only

Awarded to a student of high academic standing in a major or honours program in Political Studies who is entering the penultimate year of undergraduate studies. Selected by the Department.

FRANCES CROOK MORRISON SCHOLARSHIP IN EDUCATION

(established in 1999 by Frances Morrison '39, to recognize the 60th year since her graduation)

Value: $1,500; non-renewable

Awarded to a student in the Bachelor of Education year who has achieved a cumulative average of 80% or higher, plans to teach at the elementary school level, and shows commitment to the teaching of Mathematics. Selected by the School of Education.

ANTHONY W. PRESTON MEMORIAL

(endowed by alumni and friends in honour of Dr. Preston, who taught Classics from 1930-1964, was appointed Vice-Principal in 1964, and was Principal and Vice-Chancellor 1969-70)

Value: $1,000, normally one year only

Awarded to the honours or major student with the highest academic average entering the second or third year of study in Classics, Philosophy or Religion, who is not holding any other scholarship. Selected by the Chairs of the three Departments.

E.A. PRINCE MEMORIAL

(endowed by former students, colleagues and friends of Professor E.A. Prince, a member of the Bishop's Political Studies Department from 1967-1981)

Value: $1,000, normally one year only

Awarded to a third year Political Studies student of high academic standing who, in the opinion of the Department, has made a significant contribution to the life of the University. Selected by the Department.

GERALD THEODORE RAYNER SCHOLARSHIP IN POLITICAL STUDIES

(established in 2012 through funding by Gerald Theodore Rayner '51 and gifts made in his memory)

Value: $1,500

Awarded to a Canadian student entering his/her penultimate year who is studying Honours Political Studies, has an interest or has taken Public Policy and is planning to pursue graduate **work in** political studies and has revealed a strong commitment to Canada. Selected by the Department.

P.H. AND EULAH REED SCOWEN SCHOLARSHIP IN EDUCATION

(established in 1994 by the Scowen grandchildren)

Value: $2,000, one year only

Awarded to a student entering the Bachelor in Education degree, whose full-time schooling has been interrupted for a minimum of four years, and who demonstrates financial need. Selected by the Department.

STEPHEN ST.CLAIR MEMORIAL SCHOLARSHIP

(established in 1966 by the St.Clair Foundation in memory of a former Bishop's student)

Value: $3,000 per year

GEORGE H. TOMLINSON MEMORIAL

(established in 1959 under the Will of Mr. Tomlinson DCL '46, a member of the Corporation of Bishop's University 1945-1958.)

Value: $2,000, normally one year only.

Awarded to an honours Science student, preferably entering third year.

THE TOMLINSON GRADUATE STUDIES SCHOLARSHIPS

(funded since 2008 as a result of a gift from Richard Tomlinson '43, DCL '89)

Value: multiple scholarships valued at $2,000 for one year only.

Awarded to full-time students pursuing graduate studies at Bishop's University.

General Named Scholarships

ABITIBI CONSOLIDATED

(endowed through the Partners in Learning Campaign 1998-2003)

Preference given to a student in Social Sciences.

AMERICAN BILTRITE COMPANY

Preference given to a student from Sherbrooke.

BANQUE NATIONALE

(endowed through the Partners in Learning Campaign, 1998-2003)

DR. E.E. BOOTHROYD
(founded by an anonymous alumnus in memory of Dr. Boothroyd who taught English and History at Bishop's from 1904 to 1944)
Preference given to a student in the Humanities.

CHIEF JUSTICE BOWEN
(Chancellor 1856-58)
Value: $2,000

ROBIN BURNS MEMORIAL
(endowed in 2003 by faculty and friends of Robin Burns, who taught History at Bishop's from 1979 until his premature death in 1998)
Preference given to a student in History.

LE GROUPE CANAM
(endowed through the Partners in Learning Campaign, 1998-2003)
Preference given to students from Quebec.

DOUGLAS CARMICHAEL MEMORIAL
(founded in 1942 by his parents in memory of Douglas Carmichael '38, who was killed in active service during WW II)

JOHN C. CLARK
(endowed through the Partners in Learning Campaign, 1998-2003, in honour of his son Paul '89)

CLARK-KENNEDY
(founded in 1959 by Mrs. Clark-Kennedy)

ROSS CLARKSON
(founded in 1969 by an anonymous donor)

CLASSES OF '59, '60 & '61
(endowed in 2000 in honour of the Bishops' professors and classmates of '59, '60 & '61 and to celebrate the 40th anniversary)

JOHN & PATTIE CLEGHORN
(endowed through the Partners in Learning Campaign in 2000. Chairman of Leadership Gifts and National Chairman of Learning for Life 1987-1992, John received an honorary degree in 1989. Two of their three children, Andrea and Ian, graduated in 1990 and 1991 respectively. Lynne Bridgman '89 joined the family by marrying Ian.)
Awarded to students who are pursuing majors in the programs of Canadian History and/or Fine Arts.

STUART A. COBBETT
(established in memory of a devoted friend and member of the Corporation 1967–76)

COMPASS GROUP CANADA
(endowed through the Partners in Learning Campaign, 1998–2003)

CONSTRUCTION LONGER
(endowed in 1998 through the Partners in Learning Campaign, 1998-2003)
Preference given to a student from the Eastern Townships.

GERTRUDE CONWAY & DAVID ALFRED CONWAY JONES SCHOLARHIP
(endowed in 2014 by Susan Gram and Tom Jones in memory of their mother, Gertrude Conway, and their brother, David Alfred Conway Jones)
Value: $2,000
Awarded annually to students pursuing the Bachelor of Arts (Education), Bachelor of Science (Education), or Bachelor of Education program. Preference will be given to students with a permanent residence in the greater Sherbrooke area. If no suitable candidates are available, recipients can be selected from the Eastern Townships, and then from the province of Quebec. Recipients will have to meet the current year's scholarship requirements for either the Entrance Scholarship Program or Continuing Student Scholarship Program, as laid out in the Academic Calendar.

JEAN CRÉPEAU
(endowed by Jean Crépeau through the Partners in Learning Campaign, 1998-2003)

KENNETH CRAWFORD
(established in 2003 through a bequest in the Will of Kenneth Crawford '31)

NANCY DAWES
(founded in 1962 by Nancy Dawes)

DICKSON SCHOLARSHIP IN EDUCATION
(endowed in 2011 by W. John Gallop '57, Karen Dickson Ingimundson and Betty Mueller Dickson in memory of Doris Dickson Gallop '23 and C. Wynne Dickson '32)
Value: $1,250
Awarded annually to an entering or returning student with high academic standing in the School of Education. Preference given to a student from the Eastern Townships.

HARRIET J. EVANS
(founded in 1969 by Harriet Evans, a Sherbrooke resident and Bishop's benefactor)

EXP.
(endowed through the Partners in Learning Campaign, 1998-2003)

NARCISSA FARRAND
(founded in 1917 by Mr. & Mrs. H.V. Truell)

FLORENCE MAY FOREMAN
(endowed in 2003 through the Estate of Florence Foreman)

FOUNDATION OF BISHOP'S UNIVERSITY
(funded by the Bishop's University Foundation)

LA SOCIÉTÉ DE CONSTRUCTION GÉRATEK LTÉE
(endowed through the Partners in Learning Campaign, 1998-2003)
Preference given to a scholar from the Eastern Townships.

GLOBAL EXCEL MANAGEMENT INC.
(endowed through the Partners in Learning Campaign, 1998-2003)
Preference given to a scholar from the Eastern Townships.

JOHN HACKETT MEMORIAL

(established by friends and family in memory of long time friend, graduate and counsel of Bishop's University, John Hackett '63, who died prematurely in 1999)

Preference given to a Humanities student.

R.W. HENEKER

(Chancellor 1878–1900)

FREDA HOWIE MEMORIAL

(endowed in 2003 through the Estate of Freda Howie '39)

MARION REED KERR

(endowed in 2003 through the Estate of Marion Kerr)

Preference given to a student from Ulverton-Richmond-Melbourne.

GENE H. KRUGER SCHOLARSHIP

(founded in 1999 by Joseph Kruger II, Chairman and CEO of Kruger Inc.)

Preference given to an Eastern Townships student.

KILLAM AMERICAN SCHOLARSHIP

(endowed anonymously in 2006 to encourage American students to attend Canadian universities)

Value: $1,000

Awarded to students enrolled full-time at Bishop's who are domiciled in or are citizens of the United States. The scholarship is renewable provided students continue to meet the academic standards.

SNC LAVALIN

(endowed through the Partners in Learning Campaign, 1998-2003)

R.A. LINDSAY

(founded in 1947 by Dr. & Mrs. Lionel Lindsay in memory of their son, Class of 1942, who was killed in action in WW II)

W. LONG

(founded in 1872 by a bequest in the Will of the Rev. W. Long)

GERALD MALLARD MEMORIAL

(established in 1985 by Mrs Gertrude Mallard in memory of her husband Gerald '47)

HARRISON McCAIN

(endowed through the Partners in Learning Campaign, 1998-2003)

Preference given to a student from New Brunswick.

McDONALD'S RESTAURANTS OF CANADA

(endowed through the Partners in Learning Campaign, 1998-2003)

METRO-RICHELIEU

(endowed through the Partners in Learning Campaign, 1998-2003)

Preference given to Quebec students.

J. RAYMOND MILLS

(established in 2002 through a bequest in the Will of Raymond Mills)

G.H. MONTGOMERY MEMORIAL

(founded in 1951 by a bequest in the Will of Dr. Montgomery, Chancellor 1942-1950)

GARY MULLINS

(established in 2002 by Janyne M. Hodder, Principal & Vice-Chancellor 1995–2004, as a Christmas gift in honour of her husband)

Preference given to second-year new scholars in English major or honours, who demonstrate financial need. Recipients to be selected by the faculty of the English Department.

THE PATERSON FOUNDATION

(endowed in 1993 in honour of the University's 150th Anniversary)

Preference given to a student from Northern Ontario, Manitoba, Saskatchewan or Alberta.

PRICE

(founded in 1968 in honour of Brig. Gen. John H. Price DCL '62, Chancellor 1968–74)

PRICEWATERHOUSECOOPERS

(endowed through the Partners in Learning Campaign, 1998–2003)

GORDON SAMSON MEMORIAL

(endowed through a bequest in the Will of Gordon Samson '42)

VILLE DE SHERBROOKE ARRONDISSEMENT NO 2

(Ville de Fleurimont until 2002. Endowed through the Partners in Learning Campaign, 1998-2003)

Preference given to a student from Sherbrooke QC.

JEAN McCALLUM SIMPSON

(established by a bequest in the Will of Jean Simpson '43, and gifts from her brother John McCallum '35)

Preference given to a student in Mathematics.

H. GREVILLE SMITH MEMORIAL

(founded in 1976 with a bequest in the Will of H. Greville Smith DCL '67)

Preference given to students in Natural Sciences.

STEARNS FAMILY

(endowed by Evelyn Stearns Murphy '53 and her brother David '52 in honour of George M. Sr. and George M. Jr. Stearns)

Preference given to a Humanities student from the Eastern Townships.

TD INSURANCE MELOCHE MONNEX

(endowed through the Partners in Learning Campaign, 1998–2003)

RICHARD TOMLINSON

(endowed in 1999 by Richard Tomlinson '43, DCL '89)

Multiple scholarships awarded to students who demonstrate academic excellence.

O.B. THORNTON

(founded in 1960 by an anonymous donor)

E.W. JOHN TURCKE

(Endowed by his family in memory of John Turcke. Three of his grandchildren – Christina, Peter and Natasha – graduated from Bishop's in 1991, 1994 and 1998 respectively.)

Value: $500

Preference will be given to an incoming student majoring in Music who demonstrates a high level of proficiency on the violin or cello, and who possesses a high academic standing. This scholarship will be awarded following a successful audition into the Music program.

WILLIAM AND NANCY TURNER

(established in 1988 by William I.M. Turner Jr. DCL '87, Chancellor 1987-95)

GEORGE WESTON IN HUMANITIES

(endowed by the Weston Foundation in 1995 in support of higher education)

Preference given to students of Canadian citizenship.

J.K. & E.J. WILSON

(established in 1966 by a bequest from Mrs. Joseph C. Kearney)

DENNIS WOOD

(endowed through the Partners in Learning Campaign, 1998-2003, by Townships businessman and friend of the University)

JEAN YOUNG

(endowed in 2003 through the Estate of Mildred Young in memory of her daughter Jean '60)

Awards

All are normally one year only, unless otherwise indicated.

1954–56 TEAM AWARD

(established in 2009 by team members in recognition of the induction to the RBC Wall of Distinction of the championship Gaiter football teams of 1954-56)

Value: $2,300

Awarded annually to a student-athlete playing football who has demonstrated athletic excellence. Awarded by the Athletic Awards Committee.

1964 GAITER FOOTBALL ATHLETIC AWARD

(established in 2006 by members of the 1964 Championship Team)

Value: $2,250

Awarded annually to an entering football student-athlete who has demonstrated good performance.

1998 CHAMPIONSHIP TEAM AWARD

(funded annually since 2008 by members of the 1998 Championship Team)

Value: varies

Awarded annually to a men's basketball player from Quebec.

APEX

(Awards for Peer Leadership Excellence)

Value: $1,000 each

Designed to recognize and support outstanding leadership activities by pre-University level students. Awarded by the Awards and Bursaries Committee.

DR. ROBERT M. BROWN CHEMISTRY AWARD

(established in 2008 through a bequest in the Will of Dr. Robert M. Brown '44)

Value: $1,000

Awarded annually by the Department of Chemistry to a continuing full-time Chemistry student who has maintained good academic standing in a Chemistry program, does not hold another scholarship or award and has demonstrated financial need. This award may be renewable, at the discretion of the Department of Chemistry.

BOB BURT AWARD

(endowed in 2012 by Gaiter Football alumni in honour of Bob Burt '57

Value: $1,000

Awarded annually to a Bishop's student-athlete in any sport (male or female) who best exemplifies Bob's qualities of leadership, integrity and perseverance in his or her athletic endeavours. Awarded by the Athletic Awards Committee.

BYL AWARD FOR STUDENT LEADERSHIP

(funded annually since 2006 by Sven Byl '01 and Laura '00 (Parker) Byl)

Value: $1,000, awarded biennially

Preference will be given to an entering student in good academic standing who demonstrates extensive school involvement and the leadership qualities necessary to become an active participant in the Bishop's Experience.

CAMPUS LEADER AWARD

(established in 2010 by an anonymous donor to encourage strong student leaders to live in residence and contribute in a meaningful way to the learning community that is Bishop's University)

Value: varies

Awarded to outstanding entering students who demonstrate excellence in their personal and academic profile as well as their school and community leadership capacity, are in need of financial support and who reside on campus. This award is renewable for the duration of the students' studies, to a maximum of four academic years, conditional on maintenance of an 80% cumulative average and a full-time course load (minimum of 30 credits per calendar year) and continuing to live in a campus residence. Eligible students will be invited to apply for this award. Awarded by the Awards and Bursaries Committee.

JEFF CANNON MEMORIAL ENTRANCE AWARD

Value: $1,000 awarded to each of four entering students

Preference will be given to students who demonstrate extensive school and community involvement; exhibit leadership qualities; show an entrepreneurial spirit. Awarded by the Awards and Bursaries Committee.

JEFF CANNON MEMORIAL AWARD

(established in 1992 by family and friends in memory of Jeff Cannon '89)

Value: $1,000

Presented to the graduating student who, in the opinion of his/her peers and the faculty, has contributed significantly to University life and exhibits characteristics and accomplishments similar to those of Jeff Cannon.

OWEN CARTER AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, by Owen Carter '38)

Value: $2,300 total

Awarded to one or more full-time undergraduate students who indicate financial need and have demonstrated both athletic prowess and academic achievements.

CLEGHORN FAMILY AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, by John Cleghorn, DCL '89, member of Corporation 1987-1996, Chairman of Learning for Life Campaign, 1987-1992, and his wife Pattie)

Value: varies

Awarded to an entering student with an average of 80% or higher, who has demonstrated athletic excellence and to two continuing students

who have demonstrated outstanding performance in their sport. Chosen by the Athletic Awards Committee.

MIRIAM COZEN-MCNALLY MEMORIAL AWARD

(established in 1995 by Miriam's mother, in memory and recognition of the contribution and inspiration that Miriam, who died tragically in a car accident while a student at Bishop's, made to the team)

Value: $250

Awarded annually to a returning female student-athlete playing rugby who has demonstrated qualities similar to those displayed by Miriam: enthusiasm, dedication, team spirit, perseverance and overall improvement of rugby skills. Awarded by the Athletic Awards Committee and presented at the Athletic Awards Night ceremony.

WALLY DENVER AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, for the Denver family: Wally '61 and his children Keith '88, Jennifer '91, and Kim '92)

Value: $1,100

Awarded to a student-athlete in financial need.

JAMES ETCHEVERRY AWARD

(endowed)

Value: $700

Awarded annually to a Gaiter football player who has demonstrated athletic excellence.

FELESKY LEADERSHIP AWARD

(endowed in 2011 by Wade '92 and Rebecca Felesky, on the occasion of Wade's induction to the *Top 10 After 10*, to encourage and assist well-rounded students from Western Canada so they may enjoy the benefits of a Bishop's education)

Value: varies, up to $4,500

Awarded to an entering student(s) from Western Canada of high academic standing whose record of engagement in athletics and/or community service demonstrates significant potential to contribute to and benefit from the full breadth of the Bishop's experience. Preference will be given to a student who demonstrates financial need. This is a non-renewable award which is conferred by the Awards and Bursaries Committee.

PAUL F. FENTON AWARD

Value: $20,000 per year, renewable.

Awarded to an entering student from the Cayman Islands. Preference will be given to a student who is pursuing a major in Business. Consideration will be given to the financial ability of the student to pay International student fees. The award is renewable for the duration of the student's studies, to a maximum of four years, subject to the student maintaining an average of at least 75%.

RICHARD FITZSIMMONS MEMORIAL AWARD

(established in 2010 by family and friends of Richard Fitzsimmons '70, a Rhodes Scholar, multi-talented intellectual, gifted lawyer, and passionate defender of the rights of others. Il avait un "Cœur de Lion".)

Value: $1,250

Awarded to an entering student who has shown academic promise, demonstrated the qualities of leadership and community service, and has the potential to contribute positively to the Bishop's experience. Financial need will also be considered. Awarded by the Awards and Bursaries Committee.

FORSYTHE AWARD

(funded annually since 2011 by Chris '99 and Jamie '96 Forsythe)

Value: $2,000

Awarded annually to a men's Gaiter basketball player in good academic standing who has excelled on the court and demonstrated financial need. Awarded by the Athletic Awards Committee.

GAITER CLASSIC AWARD

(funded annually through the Gaiter Classic Golf Tournament)

Value: Multiple awards to be determined annually

Awarded annually to student-athletes who demonstrate athletic excellence. Awarded by the Athletic Awards Committee.

ROBERT J. GOLDBERGER AWARD

(founded in 1999 by Robert J. Goldberger '79)

Value: Multiple awards to be determined annually up to $12,000 per year

For students who have demonstrated athletic excellence. Awarded by the Athletic Awards Committee.

PAUL GRATIAS AWARD

(endowed with a gift from Paul Gratias '67 to the Partners in Learning Campaign, 1998-2003)

Value: $2,300

Preference will be given to a student-athlete who demonstrates financial need. The award is renewable provided the recipient remains in good academic standing.

GRIFFIN FAMILY AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, by members of the Griffin family)

Value: multiple awards up to $1,500 each

Awarded to full-time undergraduate students who demonstrate financial need, academic ability, and the qualities of well-rounded individuals.

PAUL HAWCO MEMORIAL AWARD

(established in 1996 in memory of Paul Hawco '95)

Value: $1,250

Awarded to an entering student from the province of Alberta who has demonstrated high academic standing and participation in extra-curricular activities. Information available from the Admissions Office.

HOBBS-SPANSWICK LEADERSHIP AWARD

(endowed in 2010 by Ebert "Bim" Hobbs '51, a proud and loyal Bishop's graduate, and his loving wife of 60 years Audrey Spanswick, who passed away in January 2010)

Value: $2,000

Awarded to an entering student in good academic standing who has demonstrated extensive school and community involvement in activities that have improved the quality of life for people in the local community, the nation or the world, and possesses the leadership qualities necessary to actively participate in the Bishop's Experience. Preference will be given to a student who demonstrates financial need. Awarded by the Awards and Bursaries Committee.

HODDER AWARD IN MUSIC

(endowed in 2004 in honour of Janyne Hodder, Principal of Bishop's University from 1995 to 2004)

Value: $1,300

Awarded to one or more students for outstanding work in administering the "Music Chez Nous" concert series.

HOWARD HOLLOWAY AWARD IN EDUCATION

(established in 2006 in memory of Howie '65, by Anne Holloway, Stephen '65 & Kathleen Prest, family and friends).

Value: Generally three awards annually of $1,500 each

Offered to students who have a high academic standing, possess past or present leadership or character suitable to teaching (e.g. contribution to educational endeavours at the University or in the community), and demonstrate financial need.

JEAN ROBINSON HUNT MEMORIAL AWARD

(established in 2000 by Ross Hunt '81, in memory of his mother, Jean Robinson Hunt)

Value: $8,000 per year, renewable for a total of three years.

Tuition and residence expenses for a Quebec student from outside the Montreal region, who demonstrates financial need, and who maintains an academic average at Bishop's of 70% or better. Application required.

ERIC AND CANDACE INNES AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, by Eric '71 and Candace '71)

Value: $2,000

Preference given to a student in second year who came to Bishop's from outside the Province of Quebec, who is in good academic standing, and who has made a significant contribution to campus life. To be eligible, the student must submit an essay of 500-600 words on "Objectives for my University Experience" to explain his or her aspirations for university. The award is renewable provided the recipient continues to meet the criteria.

RON AND SHELLY KAULBACH AWARD

(endowed through the Partners in Learning Campaign, 1998-2003, by Ron '66)

Value: two awards of $1,000 each

Awarded to students who have demonstrated good performance in a sport and are in financial need. Selection made by the Athletic Awards Committee.

LEN KORNACK AWARD IN EDUCATION

(endowed in 2012 through a bequest in the Will of Len Kornack '64)

Value: $2,250

Awarded to a student in the Bachelor of Education program (preference to a student with a focus on History or English as a teachable) who is a Canadian citizen and demonstrates financial need. Selected by the Division.

LEN KORNACK AWARD IN HISTORY

(endowed in 2012 through a bequest in the Will of Len Kornack '64)

Value: $2,250

Awarded to a student majoring in History who is a Canadian citizen and demonstrates financial need. Selected by the Department.

DR. JOHN LATTER AWARD

(established in 2010 by Dr. John E. Latter '66)

Value: up to $1,000 (non-renewable)

To be awarded to students with permanent disabilities registered in a full-time program of study at Bishop's. The applicants must be registered with the Student Accessibility and Accommodation Services and have successfully completed at least one term of full-time study at Bishop's achieving a minimum average of 75%. The applicants must be able to show evidence of having made a positive contribution to student life at Bishop's. Application forms will be available through the Coordinator, Student Accessibility and Accommodation Services.

T. LITZEN AWARD

(established in 2013 by T. Litzen)

Value: $1,000

To be awarded to three student-athletes who demonstrate athletic excellence.

IRENE MACKAY AWARD

(established in 1997 by Dr. Hugh M. Scott DCL 1999, Principal & Vice-Chancellor 1986-1995, in honour of his mother)

Value: $2,900

Preference given to a student from a single-parent household who is in good academic standing and who demonstrates financial need. Information available from the Business Office.

SYDNEY McMORRAN AWARD

(endowed in 2004 by John Donald '60, David Thomson, and Urban Joseph in recognition of their long-standing friendship with Bud McMorran '60, DCL '04, and his father Sydney '29)

Value: $1,800

Awarded annually to a continuing student-athlete who demonstrates financial need. Recipient chosen by the Athletic Awards Committee.

ZDENEK MUNZAR/1967 OSLAA BASKETBALL CHAMPION AWARD

(endowed since 2008 with $13,000 from the Zdenek Munzar Trust Fund and $10,000 donated at the Fall 2007 induction of the Championship Team to the Wall of Distinction)

Value: $1,000

Awarded by the Athletic Awards Committee to a Gaiter basketball student-athlete.

ZDENEK MUNZAR MEMORIAL AWARDS

Value: multiple awards to be determined annually

Awarded by the Athletic Awards Committee to students who indicate financial need and who have demonstrated athletic prowess in football.

NUESTRA AMÉRICA

(funded annually since 2006 by Professor Gilberto D'Escoubet)

Value: $1,500

Awarded annually as a travel grant to a student pursuing a major in Hispanic Studies, who plans to study in a Spanish American country for one or two semesters.

NUEVOS RECUERDOS DE ESPAÑA

(funded annually since 2010 by Professor Gilberto D'Escoubet)

Value: $500

Awarded annually as a travel grant to a student pursuing a major in Hispanic Studies, who plans to study abroad in Spain for one or two semesters.

JEAN IRVINE PATERSON AWARD

(endowed in his mother's honour by Alex K. Paterson '52, DCL '74, Chancellor 1995-2005)

Value: varies

Awarded to full-time undergraduate students who, at the time of admission, are considered to have characteristics which make it likely that they will, on graduation, contribute significantly to the community. Selection of the candidates will come from the Recruitment Office, with an aim to recruiting well-rounded Bishop's students.

JOAN AND ALEX PATERSON AWARD

(funded annually by Alex ’52, DCL ’74 and Joan Paterson)

Value: $250

Awarded annually to the graduating student who, during his or her years at Bishop’s, contributes the most to volunteer work and activities in the off campus community.

JOHN PRATT EMERGING LEADER ENTRANCE AWARD

(endowed in 2013 by John Pratt)

Value: $3,000

Awarded annually to entering students who demonstrate creativity and initiative in one or more of the following categories: community service, extracurricular involvement, athletics, internship or work experience. Candidates should demonstrate potential for future achievement through a track record of previous efforts. Preference will be given to students who are ineligible for other major entrance awards and major scholarships.

E. ANTHONY PRICE AWARD

(endowed in 2003 by the family and friends of Tony Price ’50, DCL ’02)

Value: $1,100

Awarded annually to an upper year student who has excelled in academics and athletics and whose first language is French.

THOMAS E. PRICE MEMORIAL AWARD

(established in 1997 in memory of Thomas Price ’51, DCL ’82)

Value: $1,500

Preference will be given to a student-athlete entering second year, who is academically eligible to participate and has demonstrated outstanding ability in inter-university competition. Selection made by the Athletic Awards Committee.

RIDER FAMILY AWARD

(established in 2009 by Tim and Linda Rider on the occasion of John Rider’s ’57 induction to the RBC Wall of Distinction, and in recognition of the numerous Rider family members who have actively participated in the Bishop’s experience)

Value: $600

Awarded annually to a student-athlete playing football or basketball (men or women) who has demonstrated athletic excellence. Awarded by the Athletic Awards Committee.

WANDA ROZYNSKA AWARD IN FINE ARTS

(established by Wanda and Stanley Rozynski, who believe that life would not be possible without art)

Value: $3,000

Preference will be given to a student in Fine Arts who has shown the aptitude and desire necessary to pursue a Studio Honours Degree. The recipient will be selected by the faculty of the Fine Arts Department.

JOE & YVONNE SCOTT AWARD

(established through the Partners in Learning Campaign, 1998–2003, to honour the graduation of their daughters, Jennifer ’99 and Allison ’01. Joe served on Bishop’s Corporation from 1990-99)

Value: $1,000 (two awards)

Awarded to a student who has demonstrated good performance in a sport and is in financial need. Selection made by the Athletic Awards Committee.

SIGMA CHI LEADERSHIP AWARD

(funded annually since 2011 by the Sigma Chi Canadian Foundation)

Value: $1,000

This award shall be awarded to a male entering student who has demonstrated the characteristics outline in the *Jordan Standard,* the guideline for membership in the fraternity: strong academic achievement combined with outstanding leadership and good character through involvement in extracurricular activities within the school and/or community. Selected by the Awards and Bursaries Committee.

SPG JUBILEE AWARD FOR STUDENT MUSICIANS AT ST. MARKS CHAPEL

Value: varies

Awarded to a student(s) who provide(s) outstanding music at services in St. Mark’s Chapel during the academic year. This may include playing the organ or another instrument, directing the chapel choir, or accompanying choir practices. Selection by the Chapel Music Committee.

CODY TRIGGS MEMORIAL AWARD

(funded annually by David and Laurie Triggs to honour the memory of their son Cody who died tragically in 2005 while still a student at Bishop’s)

Value: $500

Awarded to a rugby player who demonstrates athletic prowess and responsible conduct. Awarded by the Athletic Awards Committee and presented at the Athletic Awards Night ceremony.

BUTCH VOCE AWARD

(funded annually since 2012 by Greg Duval ’74 and family in memory of friend and former team-mate Butch Voce who suffered a paralyzing footfall injury as a Bishop’s student)

Value: $500

Awarded to a Bishop’s football player in his first year who has made an outstanding contribution on or off the field. Awarded by the Athletic Awards Committee.

Bursaries

HARRY BENNETT MEMORIAL BURSARY

(endowed through a bequest in the Will of Harry Bennett, who served on Corporation from 1976-1985, and on the Foundation from 1989-1997)

Value: $450

Awarded to a full-time student who demonstrates financial need.

BISHOP’S UNIVERSITY STAFF BURSARY

(endowed by support staff through the Partners in Learning Campaign, 1998-2003)

Value: Varying amounts up to $2,300 total

Given to returning full-time students in good academic standing who are Canadian citizens, who demonstrate financial need, and who do not hold any other University scholarship or bursary. The recipients will be chosen annually in June by the Awards & Bursaries Committee.

NORMAND CARPENTIER/CAMOPLAST BURSARY

(established in 1994 by Camoplast Inc. of Sherbrooke, QC)

Value: $1,400

Awarded to a student in International Business going on a required exchange who demonstrates financial need and high academic standing. Recipient selected by the faculty of the Williams School of Business.

CHAWKERS FOUNDATION BURSARY

(endowed in 2000)

Value: $850

Awarded for one year only to a student in good standing in the Environmental Studies program, who has demonstrated financial need. Recipient selected by the faculty of the Environmental Studies and Geography Department.

COASTALCONTACTS.COM EMERGENCY BURSARY

(established in 2007 by Roger V. Hardy '93, Chairman and CEO of Coastal Contacts)

Value: $450

Available to full-time students of Bishop's University who demonstrate urgent financial need due to exceptional circumstances. Applications/ inquiries should be made to the Business Office.

VIRGINIA COWAN MEMORIAL BURSARY

(established by family and friends in memory of Virginia Cowan '95, who died prematurely in 2001)

Value: $1,200

Presented annually to a continuing female student in Business who has demonstrated financial need, participated widely in campus life, and maintained good academic standing.

FOUR SHADES OF PURPLE MEMORIAL BURSARY

(established in 2010 by alumni, friends and family committed to honouring the memory of dear friends and former students Michel Fontaine, Kyle Pearson '06, David Teehan '07, and Cody Triggs)

Value: to be determined annually

Awarded annually to a second year student who was initially supported through the Refugee Sponsorship Program. Awarded by the Refugee Sponsorship Committee.

GOLDBERGER GLOBAL EXPERIENCE BURSARY

(established in 2011 by Robert J. Goldberger '79)

Value: varies; to assist with travel expenses

Travel bursaries to encourage full-time students to participate in a University approved exchange program. Preference will be given to non-Business students. Information available through the International Recruitment, Admissions, and Exchange Program Office.

STEWART GRAHAM MEMORIAL BURSARY

(established by family, faculty and friends of Stewart Graham '00 on the occasion of his premature death in 2000)

Value: $350

Preference given to a continuing student from Atlantic Canada who demonstrates financial need.

ROGER V. HARDY BURSARY

(endowed in 2003 by Roger V. Hardy '93)

Value: varies

Preference will be given to a rugby player, male or female, in good academic standing who demonstrates financial need.

HASLETT TRAVEL BURSARY

(endowed in 2002 through a bequest in the Will of Robert Haslett '57)

Value: $450

Travel bursary to encourage full-time students to participate in a University approved exchange program. Information available through the International Recruitment, Admissions, and Exchange Program Office.

RAY JENSEN TRAVEL BURSARY

(established in 2009 by Ray Jensen '50)

Value: varies

Travel bursaries to help support full-time students participating in a University approved exchange program. Information available through the International, Recruitment, Admissions, and Exchange Program Office.

KvmaR BURSARY

(funded annually since 2012 by Kumar Hathiramani '72)

Value: $1,000

Awarded annually to a full-time female student who has demonstrated financial need and is in good academic standing. Preference given to international students. The recipient will be chosen annually by the Awards and Bursaries Committee.

JOHN LECKIE BURSARY

(endowed in 2005 by John Leckie '68)

Value: $800

Preference will be given to a student from the Eastern Townships, pursuing a degree in Business, who demonstrates financial need.

BOROUGH OF LENNOXVILLE BURSARY

(funded since 1994 by the Borough of Lennoxville)

Value: to be determined annually in the fall

Preference will be given to a long-time resident of Lennoxville who is entering first-year and who demonstrates financial need.

MAYA LIGHTBODY BURSARY

(endowed by colleagues and friends of prominent regional artist Maya Lightbody)

Value: $300

Preference will be given to a student enrolled in Fine Arts courses at the Knowlton Campus who demonstrates financial need.

T. DAVID LITTLE BURSARY

(funded since 2014 by Len Ruby and Raegan Little)

Value: $3,000

Awarded annually to an entering student in financial need who is playing a varsity sport, and interested in pursuing a career in law.

MARCO POLO TRAVEL BURSARY

(funded annually since 2013 by Modern Languages professor Cristiana Furlan)

Value: $1,500 total

Awarded annually to one or more (to a maximum of three) students pursuing a Concentration (10 courses) in Italian Studies and on a University approved exchange in Italy. The International Recruitment, Admissions, and Exchange Program Office will select the recipient(s) who should demonstrate financial need.

DR. SIDNEY MEDINE BURSARY

(endowed through a bequest in the Will of Sidney Medine '35)

Value: Multiple bursaries in amounts to be determined annually in March.

Awarded to students of Canadian citizenship who demonstrate financial need.

.O'KILL AND BARBARA MILLER MEMORIAL BURSARY

(established in 2008 by Sandra Miller '90 in memory of her parents)

Value: $1,000

Preference will be given to a full-time, mature student from Quebec who has demonstrated financial need. Application forms will be available on the website or through the Business Office in September. The recipient will be chosen annually by the Awards & Bursaries Committee. This bursary may be renewable however the candidate must re-apply.

CAROL AND MICHAEL MOONEY INTERNSHIP BURSARY

Value: $500

Awarded annually by the School of Education to an Education student in financial need to assist with travel costs associated with the students' practicum.

THOMAS E. PRICE BURSARY

(established in 1997 in memory of Thomas Price '51, DCL '82)

Value: up to $1,000 each

Preference will be given to continuing student-athletes who demonstrate financial need.

Application forms are available from the Athletics Department.

GAVIN ROSS MEMORIAL TRAVEL BURSARY

(endowed in 2010 through a gift from the Estate of Gavin Ross '56, a proud and supportive Bishop's graduate who strongly believed that travel forms an important part of one's educational experience)

Value: $450

A travel bursary to encourage full-time students to participate in a University approved exchange program. Information available through the International Recruitment, Admissions, and Exchange Program Office.

WILLIAM L. SHURTLEFF BURSARY

(endowed in 1955 through a bequest in the Will of William L. Shurtleff)

Value: $250

Awarded to students in the B.Ed. program to assist in covering costs associated with travel to their practicum. Information available from the Dean of the School of Education.

ST-ANDREW'S SOCIETY BURSARY

Value: $1,000

Awarded on the recommendation of a committee to a student of Scottish descent who can demonstrate financial need. Application forms are available from the Business Office.

CAROL STEVENSON BURSARY

(endowed in 2001-02 by Carol Stevenson to encourage and help serious students of any age to pursue higher education)

Value: $800

Preference will be given to a student who demonstrates financial need, has an average of 70% or higher, and who does not hold any other University academic scholarship or award.

TD BANK FINANCIAL GROUP BURSARY

(endowed through the Partners in Learning Campaign, 1998–2003)

Value: up to $1,500 each

Awarded to students resident in Canada who demonstrate financial need.

TORONTO ALUMNI & FRIENDS BURSARIES

(funded by alumni and friends who participate in an annual golf tournament)

Value: Multiple bursaries in amounts to be determined annually.

Awarded annually to students from the Greater Toronto area who demonstrate financial need. The recipients will be chosen by the Awards and Bursaries Committee. Applications should be made through the Business Office.

VIVA ESPAÑA TRAVEL BURSARY

(funded annually since 2012 by long-time Modern Languages professor Céline Dudemaine)

Value: $1,000

Awarded annually to a student majoring in Hispanic Studies studying on a University approved exchange in Spain. The International Recruitment, Admissions, and Student Exchange Program Office will select the recipient who should demonstrate financial need.

ALAN AND DOROTHY WILLIAMS BURSARY IN BUSINESS

(established in 1993 by David A. Williams '63, DCL '96, in honour of his parents whose personal sacrifices enabled him to benefit from higher education.)

Designed to support Business students who are in financial need, this bursary program distributes numerous bursaries to deserving students. Application forms are available from the Williams School of Business.

WULFTEC INTERNATIONAL BURSARY

(endowed through the Partners in Learning Campaign, 1998–2003)

Value: $2,000

Preference given to a student in financial need from Ayer's Cliff, Beebe, Stanstead or Rock Island.

Loans

Provincial Loans and Bursaries

Governmental aid is extended to students in the form of guaranteed loans, or a combination of guaranteed loans and bursaries according to the applicant's requirements. The plan is designed to give increased aid to those with greater needs. A student is eligible who:

- is a Canadian citizen;
- is domiciled and has resided in their respective Provinces for at least a year;
- has submitted an application form to the Student Aid Service, in their respective province, by the required date, in which requirements of a financial nature have been established.

Students coming to Bishop's from other Canadian provinces should contact their provincial ministry of education for information about loans and bursaries.

External Scholarships

An extensive list of Graduate scholarships tenable in Canada or internationally is available on the Bishop's Research website at: *http://www.ubishops.ca/research/student-research-scholarships.html*

The Association of Universities and Colleges of Canada (AUCC) administers scholarships for Canadian and International students. A list of available undergraduate and graduate scholarships can be accessed on the AUCC website: *www.aucc.ca*

Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research & Industrial Awards (USRAs) – University undergraduate student research awards provide financial support to undergraduate students during the summer months. *http://www.nserc-crsng.gc.ca/Students-Etudiants/UG-PC/USRA-BRPC_eng.asp*

The Fonds de recherché du Québec – Société et Culture (FRQ-SC). Undergraduate Introduction to Research Scholarship – provides financial support to undergraduate students during the summer months. *http://www.fqrsc.gouv.qc.ca/fr/bourses/candidat.php*

You may contact the Office of Research Services for more information.

Postgraduate Scholarships

Canada-US Fulbright Scholarships

www.fulbright.ca

Canadian students may apply for a Fulbright Scholarship to enter a graduate program at a university in the USA.

Natural Sciences and Engineering Research Council of Canada (NSERC) Alexander Graham Bell Canada Graduate Scholarships Program ($17,500)

www.nserc-crsng.gc.ca

Social Sciences and Humanities Research Council of Canada (SSHRC) Joseph-Armand Bombardier Canada Graduate Program-Master's Scholarships ($17,500)

www.sshrc-crsh.gc.ca

Canadian Institutes of Health Research (CIHR) Frederick Banting and Charles Best Canada Graduate Scholarships ($17,500)

www.cihr-irsc.gc.ca

Government of Canada, Department of Foreign Affairs and International Trade, and the Canadian Bureau of International Education

www.scholarships.gc.ca and *www.cbie.ca*

International Scholarships for graduate study and research offered to Canadians to study abroad.

Fonds de recherche du Québec

Master's and Doctoral research scholarship funding available to Quebec residents. Online applications:

Fonds de recherche du Québec - Société et culture *www.fqrsc.gouv.qc.ca*

Fonds de la recherche en santé du Québec *www.frsq.gouv.qc.ca*

Fonds de recherche du Québec – Nature et technologies *www.fqrnt.gouv.qc.ca*

Prizes

To be eligible for any prize, students must be in an honours or a major program, and must have completed a minimum of 30 credits at Bishop's University. There are two major categories of prizes: University-wide prizes, for which students in any program may compete; and Departmental proficiency prizes, which are awarded for excellence in a particular discipline or program.

To be eligible for a University-wide prize, a student must have a minimum cumulative average of 80% over all courses completed. A graduating student must have completed at least 60 credits at Bishop's University; a non-graduating student must have completed a minimum of 30 credits at Bishop's.

To be eligible for any Departmental prize, a student must have completed at least 30 credits at Bishop's University, and must have a minimum average of 80% in courses in the discipline (or accepted cognate courses).

Where non-academic criteria are included in the specifications for a prize, students with an average not lower than 75% may be considered to be eligible.

No prize may be awarded more than once to the same student.

University-wide Prizes

GOVERNOR GENERAL'S GOLD MEDAL

Awarded for outstanding academic proficiency in a Master's program.

GOVERNOR GENERAL'S SILVER MEDAL

Awarded to the student standing first in the final year of his/her undergraduate program.

CHANCELLOR'S PRIZES

Two awards for outstanding academic proficiency in the final year of an undergraduate course. These two awards cannot be granted in the same Division.

VICE-CHANCELLOR'S PRIZE

Awarded for outstanding academic proficiency in the final year of an undergraduate course.

CHAIR OF THE BOARD OF GOVERNORS PRIZES

Two prizes awarded to students in the final year obtaining Class I standing. These two awards cannot be granted in the same Division.

HON. G. HOWARD FERGUSON CUP

The student of the graduating class who has made the greatest contribution to the life of the University is to have his or her name inscribed on a cup presented by the Hon. G. Howard Ferguson, and is to receive a certificate appropriate to such a distinction.

Such an award shall take into consideration:

(a) high academic standing.

(b) proficiency in representing the University in athletic and other activities.

(c) qualities of character and leadership.

CHIEF JUSTICE GREENSHIELDS PRIZE

This prize is awarded to the winner of the Hon. G. Howard Ferguson Memorial Trophy.

STRATHCONA FOUNDATION PLAQUE

Awarded to the athlete of the graduating year with the highest academic standing, who has represented the University in intercollegiate competition.

ROSS HUNTING PRIZE

Awarded to a student in the penultimate year of an undergraduate program who is of proven academic ability and who has contributed to the life of the University through intercollegiate sports and other activities.

COLONEL ARTHUR MILLS PRIZE

Awarded to a first year student with a first class academic standing who has made the most valuable contribution to the extra-curricular life of the University.

CHARLES A. SHEARSON MEMORIAL PRIZE

This prize shall be awarded to a student in neither the first nor final year, with high academic standing, who has made a contribution to the life of the University, representing the University in athletic and other activities and who shows qualities of character and leadership.

STANMIL PRIZE FOR EXCELLENCE IN WRITING

Awarded for excellence in writing. Winner chosen by the English Department.

WEBSTER PRIZE

Awarded to a student graduating in two areas of specialization (e.g. double honours, double major, major and minor, or a double concentration in the B.B.A. Program), with high academic standing, and who has made a significant contribution to University life through participation in athletics or other extracurricular activities.

ALUMNI PRIZES

Awarded to the male student with the highest standing in the first and second year (one prize for each year).

ALUMNAE PRIZES

Awarded to the female student with the highest standing in the first and second year (one prize for each year).

CANADIAN FEDERATION OF UNIVERSITY WOMEN SHERBROOKE AND DISTRICT "EILEEN HEALY PRIZE FOR LEADERSHIP"

Awarded by the Lampe Foundation CFUW Sherbrooke and District to a returning female student with high academic achievement and overall contribution to University life and her community.

ST. MARK'S CHAPEL PRIZE

Awarded to a student of proven academic ability who, in the opinion of the Friends of St. Mark's, has contributed to the life of the University through significant participation in the community of St. Mark's Chapel. This prize can be awarded only once to any student.

RACHELLE WRATHMALL PRIZE

Awarded to the graduating female student from the Eastern Townships with the highest academic average.

Departmental Proficiency Prizes

In Departments and programs for which no other prizes are specified, a University Prize will normally be awarded to a graduating student with high academic standing; an Undergraduate Prize will be awarded to a non-graduating student.

Biochemistry

SOCIETY OF CHEMICAL INDUSTRY PRIZE IN BIOCHEMISTRY

Awarded to the graduating student with the highest standing in Honours Biochemistry.

Biological Sciences

ARTHUR N. LANGFORD PRIZE

Awarded in the name of Emeritus Professor A.N. Langford to the top graduating student in Biology.

SUSANNA LEE MEMORIAL PRIZE

Awarded in memory of Susanna Lee '97 to a graduating student in Biology who intends to pursue either graduate studies or further education in the allied health sciences.

J.K. LOWTHER PRIZE

Awarded in memory of Professor J.K. Lowther to a graduating student of high academic standing who is judged to show special interest in the field of Ecology.

ARNOLD N. SCHOCH PRIZE

Awarded in memory of Arnold N. Schoch, B.Sc. '40, to an undergraduate in any year but preferably of the first year, for proficiency in Biology, particularly for competence and initiative in laboratory or field studies.

LEO SEPP PRIZE

Awarded in memory of Professor Leo Sepp to a biology student in his or her second program year on the basis of general proficiency.

U-O PRIZE IN BIOLOGY

Awarded to the student in the first year of a 4-year natural Science program with high academic standing in two or more Biology lecture courses and associated laboratory courses.

Business Administration

ERNST & YOUNG PRIZE IN ACCOUNTING

(financed annually since 2006 by Ernst & Young and the following Bishop's graduates who work at the firm: Neal Clarance '79; Michelle Dunn '00; Denis Lajoie '91; Peter Lamantia '88; Michel Marleau '91; Gary S. Miller '88; Luc A. Picard '93; Graham J. Robinson '04; William J. Sharp '03)

Value: $1,000

Awarded to a student going into his/her final year of study who holds the highest average in Accounting courses (minimum of 5) and who is planning to pursue a CA designation.

ERNST & YOUNG 2nd/3rd YEAR PRIZE IN ACCOUNTING

(funded annually since 2010 by Ernst & Young and Bishop's graduates who work at the firm)

Value: $1,000

Awarded to a student going into 2nd/3rd year (depending on program length) who has demonstrated excellence in Accounting and has actively participated in Accounting related activities.

Selection by the faculty members in the Accounting Concentration.

JOHN B. FELLOWES MEMORIAL PRIZE

Awarded for high proficiency in Business Administration to a student who, in the opinion of the Division, has made a significant contribution to the work of the class.

BRIAN H. FRIPP PRIZE

Awarded to a B.B.A. or B.A. Business student who is entering the final year of study, and who has demonstrated vision and ingenuity in entrepreneurship. The recipient will be recommended to the Williams School by the Director of the Dobson-Lagassé Entrepreneurship Centre.

HYPERCUBE PRIZE IN ENTREPRENEURSHIP

(funded annually since 2011 by Karl Villeneuve '97)

Value: $500

The prize will be awarded during the winter semester course BMG 214 to the student group which presents the best business plan. The winning group will be selected by the class.

CHARLES KINGSMILL MEMORIAL PRIZE

Awarded for high proficiency in Business Administration to a student in the graduating year who, in the opinion of the Division, has made a significant contribution to the work of the class.

HUGH R. McCUAIG PRIZE IN INVESTMENTS

Awarded to a student graduating with a B.B.A., concentration Finance, who has registered to write the Level 1 Chartered Financial Analyst examination at the sitting following graduation and whose average is over 75%.

DAVID RITTENHOUSE PRIZE IN ENTREPRENEURSHIP

Funded annually since 2008 by Annis '79 and Steve '84 Karpenko to recognize the important contribution made by David Rittenhouse to entrepreneurial studies at Bishop's.

Value: $500

The prize will be awarded during the fall semester course BMG 214 to the student group which presents the best business plan. The winning group will be selected by the class.

P.H. SCOWEN MEMORIAL PRIZE IN ENTREPRENEURSHIP

(established in 1991 in memory of P.H. Scowen, a loyal friend of Bishop's University)

Awarded to the top student in the Entrepreneurship minor.

Chemistry

ALBERT KUEHNER MEMORIAL PRIZE

Awarded to a graduating student with high standing in Chemistry.

SOCIETY OF CHEMICAL INDUSTRY PRIZE IN CHEMISTRY

Awarded to the graduating student with highest standing in Honours Chemistry.

CHEMISTRY FACULTY PRIZE

A prize donated by the faculty of the Department of Chemistry programs and awarded to the first-year student with the highest standing in Chemistry.

CHEMISTRY PRIZE FOR EXCELLENCE IN UNDERGRADUATE LABORATORY EDUCATION

(established in 2010 in honour of 45 years of outstanding contributions to chemistry and biochemistry students by Chemistry Department Laboratory technicians Ladislav Polak (1964-86) and David O'Neill '86 (1986-2009))

Awarded to the graduating student pursuing a Chemistry Honours or Major with the highest academic average in prerequisite chemistry laboratory courses. Funded annually by the Chemistry Department.

Value: $150

CANADIAN SOCIETY FOR CHEMISTRY SILVER MEDAL

Awarded to the student standing at the top of the penultimate year in an Honours Chemistry program.

CHEMICAL RUBBER CO. ACHIEVEMENT PRIZE

Awarded to the Chemistry student with the highest standing in his/her first year.

Classical Studies

PRINCE OF WALES PRIZES

Two prizes are awarded to students obtaining first class standing in courses given in the Department of Classics.

MACKIE PRIZE

Awarded to the graduating student in Classical Studies with the highest standing.

Computer Science

ALBERT KWONG MEMORIAL PRIZE

Awarded to an undergraduate student with high academic standing.

COMPUTER SCIENCE FACULTY APPRECIATION PRIZE

Awarded by the faculty members of the Computer Science Department to a Computer Science student who has made the greatest contribution to the life of the Department.

Drama

BARD PRIZE

Awarded to a continuing Drama student entering the second year of study, who has achieved high academic standing and made a significant contribution to Departmental productions.

MICHAEL C. BOISVERT MEMORIAL PRIZE

Established by his colleagues, friends and family in memory of Michael C. Boisvert, Technical Director of Centennial Theatre from 1987 to 1994. The prize is to be awarded annually to a student neither in first nor final year, with high academic standing, who in the judgment of the Department has demonstrated proficiency in technical theatre production.

LENNOXVILLE AND DISTRICT WOMEN'S CENTRE PRIZE

Awarded to a female student completing her first year, who is enrolled in an honours or major program in Drama, and who in the judgment of the Department has demonstrated excellence in the practical aspects of theatre.

JANE QUINTIN MITCHELL PRIZE IN DRAMA

(established in 1965 by Dr. and Mrs. T.J. Quintin in memory of their daughter)

Value: $350

Second or third year student with Dramatic Literature as one of their subjects who has shown talent and interest in some practical aspect of play production in the University theatre. Selected by the Department.

DAVID RITTENHOUSE PRIZE IN DRAMA

(established in 2011 by friends and family following David's passing)

Awarded to a graduating student in Drama, chosen by the Department, who has demonstrated exceptional dedication to the craft of theatre at Bishop's University.

EUPHEMIA ROSS PRIZE

Endowed by Professor C.W. Topping in memory of his sister and awarded to a third-year Drama student of proven academic ability.

Economics

PRIZE FOR EXCELLENCE IN ECONOMIC RESEARCH

Awarded to the student with an outstanding essay in the area of economic theory. Funded by the Cormier Centre Trust.

ECONOMICS EDUCATION ENHANCEMENT PRIZE

Awarded to the student, in the opinion of the department, who has made significant contributions to the professional and pedagogical development of the Department. Funded by Dr. Ambrose Leung, former faculty in the Department of Economics.

FACULTY PRIZE IN ECONOMICS

Awarded to a returning student with the best performance in first year economic theory; one each in Microeconomic theory and Macroeconomic theory. Funded by the Department of Economics.

JOHN W.Y. SMITH PRIZE

Awarded for high proficiency in Economics.

J. R. STOKES PRIZE IN ECONOMICS

(funded annually since 2007 by J. R. Stokes '58)

Value: $200

Awarded to a full-time, first-year student in Economics who has completed at least nine required credits in Economics and finished the year with the highest cumulative average.

Education

ALAN W. JONES MEMORIAL PRIZE

Awarded to the student with the highest academic standing in the Bachelor of Education program.

CHARLES MCBURNEY PRIZE

Endowed by Mrs. Charles McBurney in memory of her husband, and awarded for the highest proficiency in Practice Teaching at the Secondary Level.

QUEBEC PROVINCIAL ASSOCIATION OF TEACHERS PRIZE

A prize given at the discretion of the Director of the School of Education to a student who has shown a genuine professional attitude in his/her year of teacher-training.

WILLIAM L. SHURTLEFF PRIZE FOR PRACTICE TEACHING

Provided by the William L. Shurtleff Fund, and awarded for highest proficiency in Practice Teaching at the Elementary Level.

WILLIAM L. SHURTLEFF PRIZE FOR ACADEMIC ACHIEVEMENT

Provided by the William L. Shurtleff Fund, and awarded to the graduating student attaining the highest academic standing in the B.A. Major in Educational Studies.

JOHN S. VISSER MEMORIAL PRIZE IN EDUCATION AND FRENCH

(established in memory of John S. Visser '42, Dip. Ed. '45)

Awarded to a graduating student in Education and French who, in the opinion of the Departments concerned, has demonstrated excellent French-teaching ability.

English

JIM FERRABEE MEMORIAL PRIZE IN JOURNALISM

(endowed in 2010 through gifts received from family and friends in memory of Jim Ferrabee '57. Jim enjoyed a successful career in journalism and was one of the University's most dedicated volunteers and supporters right up until his death in January 2010.)

Awarded to a student(s) for the best work submitted in a Journalism course. Selection will be by a committee, chaired by the faculty member coordinating the minor in Journalism.

Value: varies

HONORARY CHAIR OF THE BOARD OF GOVERNORS PRIZES

Two prizes awarded to the students who obtain the highest standing in the U1 and U2 years of an English program.

MACKIE PRIZE

Awarded to the graduating student in honours English with the highest standing.

F.E. MEREDITH MEMORIAL PRIZE

A prize endowed by the late W.C.J. Meredith, Esq., Q.C., M.A., D.C.L., in memory of his father F.E. Meredith, Q.C., L.L.D., D.C.L., who was Chancellor of the University from 1926 to 1932. Awarded to the student graduating in an English program who writes the best English (on recommendation of the Department).

SHAUNA MURRAY MEMORIAL PRIZE

Established in 1994 by her family and friends in memory of Shauna Murray, Professor of English at Bishop's from 1970-1982. To be awarded annually at Convocation to the student chosen by the members of the English Department who submits the best English honours thesis, and who is not otherwise receiving a Departmental award.

ARCHDEACON F.G. SCOTT PRIZE

A prize awarded by his grandson Dr. H.J. Scott for creative writing.

GLEN WICKENS PRIZE IN FILM STUDIES

(established in 2012 to mark the retirement of Dr. Glen Wickens from the English Department after 30 years of exceptional service (1982-2012). Students and colleagues admired Dr. Wickens for his commitment and leadership. In later years, he was instrumental in developing the popular Film Studies Concentration.)

Awarded annually to an outstanding graduating student in the Honours Film, Media and Cultural Studies Program. Selection will be made by the English Department.

Environmental Studies and Geography

THE CANADIAN ASSOCIATION OF GEOGRAPHERS PRIZE

Awarded to an outstanding graduating student in the Environmental Studies and Geography honours or major program.

Études françaises et québécoises

LIEUTENANT RODDIE LEMIEUX PRIZE

Awarded for proficiency in French Literature, in memory of Roddie Lemieux, a student of this University, who was killed during the War of 1914-1918.

AMBASSADOR OF SWITZERLAND PRIZE

Awarded to a student in the final year who obtains a high standing in French.

Fine Arts

UNIVERSITY PRIZE IN STUDIO ART

Awarded to a graduating student who in the opinion of the Department has shown exceptional talent in Studio Art courses.

German Studies

FEDERAL REPUBLIC OF GERMANY PRIZES

Book prizes awarded for proficiency in German by the Montreal Consul General of the Federal Republic of Germany.

REPUBLIC OF AUSTRIA PRIZES

Book prizes awarded for proficiency in German by the Montreal Consul General of Austria.

AMBASSADOR OF SWITZERLAND PRIZE

Awarded to a student in the final year who obtains high standing in German.

History

ROBIN BURNS MEMORIAL BOOK PRIZE

(established in 2010 in memory of Professor Robin Burns, dedicated teacher and scholar in the Department of History, 1979 to 1998)

Awarded to a first year Double Major Social Studies and Secondary Education student for the best essay in history, the recipient will receive a scholarly book of critical acclaim on history or a related field. Funded annually by the Department of History.

MALCOLM AND EVELYN DOAK PRIZE IN HISTORY

Given with love and in honour of the 50th wedding anniversary of Malcolm '24 and Evelyn '26 Doak from their family, the prize will be awarded to the undergraduate who presents the best essay on one of four historical topics to be assigned at the beginning of the academic year.

Value: $200

RODERICK THALER MEMORIAL PRIZE

Awarded on recommendation of the History Department to a graduating student in History.

BILL AND CATHERINE YOUNG PRIZE IN HISTORY

Awarded for the best essay submitted for a History course by a first-year student in either a major or an honours History program, upon recommendation of the faculty in the Department.

Hispanic Studies

HISPANIC STUDIES PRIZE

A book prize awarded to a graduating student with high academic standing in a minor in Hispanic Studies.

AMBASSADOR OF SPAIN PRIZE

A book prize awarded to a graduating student obtaining a high standing in a major in Hispanic Studies.

UNAM ESCUELA DE EXTENSION

A book prize awarded to a non-graduating student with high academic standing in either a major or minor in Hispanic Studies.

Italian Studies

AMBASSADOR OF SWITZERLAND PRIZE

Awarded to a student in the final year who obtains a high standing in Italian.

Mathematics

GENERAL NICOLLS PRIZE

Awarded to the graduate attaining the highest standing of the course in Mathematics honours, or the course in Mathematics and Physics honours.

IRVING PRIZE

Awarded to the U1 year student with the highest marks in Mathematics.

PROFESSOR SYDNEY TAYLOR MEMORIAL PRIZE

(established in 2010 by Martin '66 and Roger '60 in memory of their father, a professor of Mathematics at Bishop's from 1952-1968)

Awarded to a Mathematics Major or Honours student, preferably one who will be returning to Bishop's, for outstanding academic performance in his/her Mathematics courses. Awarded on the recommendation of the Department.

Value: $250

Modern Languages

PROFESSOR E.H. YARRILL PRIZE

Awarded to a graduating student for proficiency in French and at least one additional modern language other than English.

Music

HOWARD BROWN PRIZES

Established in 1984 to honour the founding member of the Music Department.

Awarded to continuing full-time Music majors.

FRIENDS OF MUSIC PRIZE

Value: $300

Awarded to the Music Honours or Major student coming second in the competition for the M. Georgina Mills Prize.

M. GEORGINA MILLS PRIZE

(established in 1986 by G.H. Stanley Mills in memory of his mother, a Montreal pianist)

Value: $1,000, normally one year only

Full-time student finishing first year with an average over 70% enrolled in the Music program.

Awarded by audition by the Department.

Philosophy

GEORGE ENGLEBRETSEN PRIZE IN PHILOSOPHY

(established in 2008 by students, colleagues and friends of Professor George Englebretsen, in recognition of his many contributions to Philosophy and teaching at Bishop's University)

Awarded to a graduating student who has written an outstanding honours thesis and who is going to attend graduate school.

DOUGLAS A.T. LLOYD MEMORIAL PRIZE IN PHILOSOPHY

(established in 2004 in memory of Douglas Lloyd '62 by his wife Nancy Tees '63, and their three children: Stephen '89, Jennifer '92, and Carolyn '96)

For a student who has excelled in Philosophy, enjoyed an enriched educational experience, and contributed to the broader culture on campus. Recommended by members of the Department.

Physics

DAVID SAVAGE PRIZE IN PHYSICS AND MATHEMATICS

(endowed by family and friends in memory of David Savage '42 who had a distinguished career in Quebec teaching and school administration)

Awarded to a graduating student who attains the highest academic standing in completing a double major or a major and minor in Physics and Mathematics.

HUGH HAUGLAND PRIZE IN ASTRONOMY

(established in 2010 by friends and family of Hugh Haugland, an avid amateur astronomer)

Awarded to an undergraduate or graduate student who has shown high academic standing in his/her astronomy courses or has made a significant contribution to the operation of the Observatory. Selection will be made by the faculty members in the Physics Department.

Value: $100

T.S. NAGPAL PRIZE

Awarded for outstanding academic performance by a U0 student, preferably an international student; selected by the members of the Department.

FACULTY PRIZE IN PHYSICS

For the U1 Physics student with the highest average in his or her Physics and Mathematics courses, based on at least 15 credits.

Politics and International Studies

ANDREW F. JOHNSON PRIZE IN INTERNATIONAL POLITICAL ECONOMY

(established by the colleagues of Dr. Andrew F. Johnson in recognition of his contributions to the development of the program/the University)

Awarded to the graduating student attaining the highest academic standing in the International Political Economy honours program. Selection by the Department of Politics and International Studies.

PROFESSOR T.W.L. MACDERMOT MEMORIAL PRIZE

A prize endowed by former students and colleagues of Professor MacDermot, diplomat, scholar, and founding head of the Department. It is awarded to the graduating student majoring in Political Studies (honours or pass) of high academic standing, who, in the opinion of the Department, has also made a significant contribution to the life of the University.

PROFESSOR E.A. PRINCE MEMORIAL PRIZE FOR HONOURS THESIS

A prize endowed by a bequest in the Will of Professor E.A. Prince. It is awarded to a graduating honours student, who, in the opinion of the Department has written an outstanding honours thesis.

GERALD THEODORE RAYNER PRIZE

(established by Gerald Rayner '51)

Awarded to a student graduating in honours Political Studies, who is a Canadian citizen, who has taken courses in comparative public policy, who is planning to pursue post-graduate work in political studies, public administration or related fields, and who has shown a strong commitment to Canada.

Religion

HARRISON PRIZE

Awarded to the outstanding U1 student having completed a minimum of 18 credits in Religion in that year.

LONG PRIZE

Awarded to the outstanding U2 student having completed a minimum of 18 credits in Religion in that year.

W.H. KING MEMORIAL PRIZE

Awarded to the outstanding student graduating with an honours or major degree in Religion.

Psychology

DR. SHANNON GADBOIS PRIZE FOR EXCELLENCE IN PSYCHOLOGICAL RESEARCH

(funded annually by Shannon Gadbois, Bishop's 1988, M.A., M.Ed., Ph.D. Queen's)

Awarded to a graduating student in Psychology who has written the best honours dissertation, and who is applying to graduate school. Selected by members of the Department.

SHEARSON PRIZE IN PSYCHOLOGY

(funded annually since 2011 by Dr. Bill and Charles '11 Shearson)

This prize shall be awarded to an outstanding student entering their penultimate year of study in the Psychology program. Selected by members of the Department.

Sports Studies

UNIVERSITY PRIZE IN SPORTS STUDIES

Awarded to the graduating student with the highest marks in the Sports Studies major.

Science

TOTO-NAICA-BIBU RESEARCH PRIZE

Awarded to a student in Science who presents an outstanding example of research activity.

Women's Studies

FACULTY PRIZE IN WOMEN'S STUDIES

Awarded to a graduating student with high academic standing in Women's Studies.

UNDERGRADUATE PRIZE IN WOMEN'S STUDIES

Awarded to a non-graduating student with high academic standing in a Women's Studies concentration.

Graduate Studies

THE BEST THESIS PROPOSAL PRIZE

Awarded to the best thesis proposal for a masters degree. Applicant must be a registered full-time master's student. Application to be submitted to Graduate Studies Committee by April 30, including a copy of thesis proposal and recommendation from student's supervisor.

Internships

Nicholas Bachand Canadian Civil Society Internship

(established in 2008)

Value: $1,200

The internship funding is awarded to a final year student in Political Studies and is associated with the course POL 353 Canadian Civil Society Internship to provide financial support to assist students who wish to pursue practical work-experience related to their studies. The internship is intended to enable students to contribute to the well-being of Canadian society by participating in voluntary and non-profit NGOs.

Elizabeth Harvey Memorial Sustainable Development Internship

(established in 2008)

Value: $3,000

This internship funding is awarded to a returning student. It is awarded to a student leader who will develop, direct, and maintain student programs on campus which support the efforts of the University to achieve its strategic goal to "operate in an environmentally responsible manner as to promote the wellness of individuals, the community, and the natural world". Possibility of renewal.

Kruger Inc. Summer Sustainable Development Internship

(established in July 2011)

Value: varies

An annual summer internship, mandated by the Sustainable Development and Land Use Committee, to offer a full-time student a hands-on, practical experience working on real-time sustainable development initiatives on the Bishop's University campus.

Dr. John Latter Adaptive Technology Internship

(established in 2010 by Dr. John E. Latter '66)

Value: $1,500

This internship provides financial support to a returning student who will work in the Adaptive Technology Lab and will provide assistance to the Student Accessibility and Accommodation Services and its users. This internship will enable the successful candidate to gain valuable work experience through active involvement with students with disabilities.

McCaig Internship Fund

(established in 2008 through an anonymous bequest in memory of Leslie McCaig '35)

Value: varies

This Internship Fund is used for projects that foster student innovation, initiative and self-reliance, by providing students with financial support to pursue for-credit internships in practical research and job-related experiences. Of educational value to the students, these projects must also involve tangible benefits to the social, cultural, environmental, and/or economic health of the Eastern Townships community. Selection by the Experiential Learning Committee.

Charles & Kathleen Rittenhouse Internship in Arts Administration

(established in 2008 by Jonathan Rittenhouse in memory of his parents)

Value: $500

This internship funding is awarded to a deserving student in the Arts Administration practicum (AAD353). The recipient will be selected by the program co-ordinator.

TD Insurance Meloche Monnex Internship

(funded annually since 2009 by Alumni Association affinity partner TD Insurance Meloche Monnex)

Value: varies

This internship funding provides financial support (for airfare and living arrangements) for students completing internships in Canada, the United States, and the United Kingdom as part of the International Studies program (INT 300 – International Development Assistance Internship). Selection by the Department of Politics and International Studies.

Student Enrichment Funds

ACADEMIC ENRICHMENT FUND

(endowed through the Learning for Life Campaign, 1987-1992)

The purpose of the fund is to provide funding for various academic projects and research proposed by faculty and students and to enable students in the Fine Arts, Music, Drama and English Departments to receive inspiration and guidance in their creative efforts from some of Canada's finest artists through the Artist-in-Residence program.

Value: $25,000

B.E.S.T. (Bishop's Experiential or Service Term) PROJECTS FUND

(established in 2009 by an anonymous donor with a strong belief in Bishop's and a desire to help the most promising students achieve their full potential)

The fund will provide valuable assistance to students, while also providing important support to University-wide objectives and will be the premiere experiential learning support at Bishop's.

Value: $50,000

BUILD A BETTER PURPLE FUND

(funded annually by the most recent graduating class)

Donated by members of the most recent graduating class as a testament to their time at Bishop's, the fund will support students with the ambition and creativity to pursue projects that address a specific need in the Bishop's community and generate a sustainable, positive impact. Selected by popular vote by fund donors.

Value: varies

COHEN OPPORTUNITY FUND

(endowed in 2011by Dian Cohen DCL '10)

This fund will provide support for experiential learning or other extra-curricular opportunities that enhance a Business student's academic experience. Selection by the Dean of the Williams School of Business, in consultation with faculty members.

Value: up to $2,250

THE GUILD OF THE VENERABLE BEDE FUND

(endowed in 2011 by The Rev. Dr. Ronald '62 and Andrea Hunt to establish a fund in thanksgiving for Faculty of Divinity staff, students, professors and graduate members of The Guild of the Venerable Bede serving the church)

The fund recognizes former Chaplain Rev. Bradley Hicks. It celebrates the 20 years of ministry of the present Chaplain, The Ven. Heather Thomson, and exists to provide support for Campus Ministry activities.

Value: $500

ALAN W. JONES OPPORTUNITY FUND

(established in 2010 by Reg Allatt '90 and etfs inc. to honour the memory of Professor Jones who taught at Bishop's from 1969 until his death in 1985 and made a lasting impact on the School of Education)

The fund will support many important projects and needs within the School of Education and will be used to enhance the Education experience at Bishop's for as many students and faculty as possible.

Value: $5,000

MCCONNELL STUDENT OPPORTUNITY FUND

(endowed by the McConnell Family Foundation through the Partners in Learning Campaign, 1998-2003)

The purpose of the fund is to encourage projects that foster student innovation, initiative, and self-reliance, by providing students with financial support to pursue practical research and most particularly, job-related skills complementary to those taught in the academic programs.

Value: $12,500

MCPHAIL OPPORTUNITY FUND

(established in 2007 in recognition of Pam McPhail's lasting impact over a 20-year career at Bishop's – 1987-2007)

The fund will provide funding for special projects of educational benefit to students and/or faculty. Candidates should submit a brief description of their project and its expected outcomes to the University Advancement Office.

Value: $700

RIESE EXPERIENTIAL LEARNING FUND

(established in 2009 through a bequest in the Will of Monique Riese)

The fund will provide support to experiential learning projects within academic programs.

Value: varies

Administration, Faculty and Librarians

Administrative Organization

Bishop's University operates under the terms of an act of incorporation passed in 1843, and amended in 1852, 1927, and 1947, by the legislature of Quebec.

Jurisdiction and final authority in all the affairs of the University are vested in the Board of Governors, consisting of the Bishops of the Dioceses of the Anglican Church of Canada situated in Quebec, and the Trustees, numbering not less than twenty-one. At least six Trustees are appointed from the faculty, three from the student body and one from the staff. The remaining Trustees are community representatives, including three or more alumni.

The Board of Governors is composed of seventeen members consisting of nine external members, one member appointed by the Provincial Government. Seven internal members will consist of the Principal and Vice-Chancellor, three faculty members, one manager, one staff member and one student from the student body.

The Convocation of the University consists of the Chancellor, the Principal, the Vice-Principal Academic, the Chair of the Council of Advisor, the Chair and Vice-Chair of the Board of Governors, the Deans and the Professors. The Convocation confers degrees in course upon the recommendation of the Senate, and honorary degrees upon the recommendation of a Degree Committee drawn from its own members.

The Chancellor presides over Convocation at its meetings, and confers degrees in the name of the University. He is elected by the Board of Governors upon recommendation by the Council of Advisors for a term of five years. The Principal, the Vice-Principals, the Academic Deans, the University Librarian, the Dean of Student Affairs, and Secretary-General are appointed by the Board of Governors. The Principal is the Vice-Chancellor and the Chief Executive Officer of the Corporation. The Vice-Principal Academic acts on behalf of the Principal in the affairs of the University.

The academic work and life of the University are governed by the Senate, which also prepares and recommends plans and policies for academic development, and advises the Corporation concerning the academic needs of the University. The Senate is comprised of the Principal, the Vice-Principal Academic, the Academic Deans, the University Librarian, fourteen members of the faculty, six full-time students , one part-time student, the Secretary General (non-voting) and the Registrar (non-voting).

Former Chancellors of the University

1853–56 The Hon. W. Walker, *M.L.C.*
1856–58 The Hon. Edward Bowen, *D.C.L.*
1858–65 The Hon. J.S. Mc Cord, *D.C.L.*
1865–75 The Hon. Edward Hale, *D.C.L.*
1875–78 The Hon. George Irvine, *D.C.L.*
1878–1900 R.W. Heneker *D.C.L., LL.D.*
1900–26 John Hamilton, *M.A., D.C.L.*
1926–32 F.E. Meredith, *K.C., LL.D., D.C.L.*
1932–42 The Hon. R.A.E. Greenshields, *D.C.L., LL.D.*
1942–50 G.H. Montgomery, *K.C., M.A., D.C.L., LL.D.*
1950–58 John Bassett, *D.C.L., LL.D.*
1958–68 The Hon. Mr Justice D.C. Abbott, *P.C., B.C.L., D.C.L., LL.D.*
1968–74 John H. Price, *O.C., O.B.E., M.C., D.C.L.*
1974–81 The Hon. Mr. Justice W. Mitchell, *B.A., B.C.L., D.C.L.*
1981–87 Robert A. Bandeen, *O.C., B.A., Ph.D., LL.D., D.C.L.*
1987–95 William I.M. Turner, Jr., *C.M., B.A.Sc., M.B.A., LL.D., D.C.L.*
1995–2005 Alex Paterson, *O.C., O.Q. Q.C., B.A., B.C.L., D.C.L., LL.D.*
2005–2013 Scott Griffin, *B.A., D.C.L.*

Former Principals of the University

1845–77 Rev. J.H. Nicolls, *M.A., D.D., Queen's College, Oxford*
1878–85 Rev. J.A. Lobley, *M.A., D.C.L., Trinity College, Cambridge*
1885–99 Rev. Thomas Adams, *M.A., D.C.L., St. John's College, Cambridge*
1900–05 Rev. J.P. Whitney, *M.A., D.C.L., King's College, Cambridge*
1905–06 Rev. T.B. Waitt, *M.A., Lincoln College, Oxford*
1906–07 Rev. H. de B. Gibbins, *M.A., Litt. D., Wadham College, Oxford*
1907–19 Rev. R.A. Parrock, *M.A., LL.D., D.C.L., Pembroke College, Cambridge*
1920–22 Rev. Canon H.H. Bedford-Jones, *M.A., D.D., Trinity College, Toronto*
1922–47 Rev. A.H. McGreer, *O.B.E., M.C., M.A., Toronto; M.A., Queen's College, Oxford: D.C.L., LL.D., D.D.*
1948–60 A.R. Jewitt, *B.A., Dalhousie; M.A., Corpus Christi College, Oxford; Ph.D. Cornell; LL.D. Dalhousie; D.C.L., Bishop's*
1960–69 C.L.O. Glass, *B.A., Bishop's; M.A., St. John's College, Oxford; D.C.L. Bishop's; D.d'U., Sherbrooke*
1969–70 A.W. Preston, *M.A., Edinburgh, M.A., Oxon, D.C.L., Bishop's*
1970–76 D.M. Healy, *B.A., Alberta; L. ès L. Docteur de l'Université de Paris; D.C.L., Bishop's; D.d'U., Sherbrooke*
1976–86 C.I.H. Nicholl, *B.Sc., Queen's, M.A.,Sc., Ph.D. Toronto, Ph.D., Cantab., D.C.L., Bishop's*
1986–95 H.M. Scott, *M.A., M.D., Queen's; F.R.C.P.(C); D.C.L.*
1995–2004 Janyne M. Hodder, *B.A., M.A., McGill, D.C.L.*
2004–2007 Robert Poupart, *B.A., B.Ph., M.Ps., D.Ps.*
2007–2008 Jonathan Rittenhouse (Interim Principal) *B.A. Loyola, M.A., Ph.D. Toronto*

Officers of the University

Chancellor
Brian M. Levitt, *B.A.Sc, LL.B (Toronto)*

Principal
Michael Goldbloom, *A.B. (Harvard), B.C.L., LL.B.(McGill), O.C.*

Vice-Principal Academic
Miles Turnbull, *B.A. (UPIE), M.A. (McMaster), Ph.D. (Toronto)*

Vice-Principal, Finance & Administration
Hélène St-Amand, *B.A., M.A., C.A., CPA*

Secretary-General and Vice-Principal Government Relations and Planning
Victoria Meikle, *B.A., LL.B, LL.M. (McGill).*

Dean, Arts & Science
Michele Murray, *B.A. (Trinity Western), M.A. (Hebrew University), Ph.D. (Toronto)*

Dean, School of Education
To be announced

Interim Dean, Williams School of Business
Calin Valsan, *B.Sc. (Bucharest), Ph.D.(Virginia Tech.)*

University Librarian
Bruno Gnassi, *B.A., M.L.S. (McGill)*

Dean of Student Affairs
Jackie Bailey, *B.A., (Bishop's), M.Ed., Ph. D. (Alberta)*

The Board of Governors

2013-14 Membership
Gesner Blenkhorn, *B.A. (Bishop's), C.A.*
Dr. Claude Charpentier, *B.A. (Bishop's), Ph.D. (Edinburgh)*
Michael Goldbloom, *A.B. (Harvard), B.C.L., LL.B. (McGill), O.C.*
Robert A. Gordon, *B.A., M.Ed., M.A., Ed.D., M.P.A., D.C.L.*
Robert Hall, *B.A. (Bishop's), LL.B. (Sherbrooke)*
Kim Huet
Deborah Langford, *B.A., B. Ed. (Mt.Allison)*
Brian M. Levitt, *B.A. Sc, LL.B. (Toronto)*
Stephen Lloyd, *B.A., B.C.L., LL.B. (McGill)*
Nadia Martel, *B.B.A., B.C.L., M.Fisc. (Sherbrooke)*
Cathy McLean, *B.A. (Bishop's) M.P.A. (Carleton)*
Dr. Michele Murray, *B.A., M.A., Ph.D. (Toronto)*
Royal Orr, *B.A. (Bishop's)*
Luce Samoisette, *LL.B., M.Fisc. (Sherbrooke), LL.M (Toronto)*
James Sweeny, *B.A., M.A. (Bishop's)*

The Senate

2012-13 Membership
The Principal and Vice-Chancellor (Chair)
The Vice-Principal
The Dean of the Williams School of Business
The Dean of the School of Education
The Dean of Arts and Science
The University Librarian
The Secretary General (Secretary; non-voting)
The Registrar (non-voting)
The Director of Continuing Education (non-voting)
Dr. Hafid Aggouram
Dr. Darren Bardati
Mr. Andrew-Philip Baronet
Mr. Trevor Blasky
Dr. Gilbert Gagné
Dr. Bruce Gilbert
Dr. Trevor Gulliver
Dr. Kerry Hull
Dr. Jean Manore
Dr. Adrianna Mendrek
Dr. Laurie Milner
Ms. Claire Murphy
Dr. Michael Richardson
Dr. Cranmer Rutihinda
Ms. Cedar Swartz-Fisher
Ms. Alessandra Tiano
Prof. Sylvain Turcotte
Ms. Allison Verville
Dr. Narianne Vigneault
Dr. Trygve Ugland

Emeritus Chancellors

William I.M. Turner, Jr.,
C.M., B.A.Sc., M.B.A., LL.D., D.C.L.

Alex Paterson,
O.C., O.Q.Q.C., B.A., B.C.L., D.C.L., LL.D.

Emeritus Professors

Colin L. Arnot,
B.Sc., Ph.D. (Liverpool)
Professor Emeritus of Chemistry

Robert F.J. Barnett,
B.A.(Waterloo), M.A.(Queen's)
Professor Emeritus of Economics

Stephen L. Black,
B.Sc. (McGill), M.A., Ph.D. (McMaster)
Professor Emeritus of Psychology

J. Derek Booth,
B.A., M.A., Ph.D. (McGill)
Professor Emeritus of Geography

James L. Bowey,
Dip. Ind. Admin. (London), M.A., Ph.D. (Lancaster)
Professor Emeritus of Business Administration

Douglas F. Brown,
B.S.A., M.Sc.(Sask), Ph.D.(Wisconsin)
Professor Emeritus of Biology

Charlie R. Carman,
B.A.Sc, M.A.Sc.(Waterloo),
B.A.(Bishop's)
Professor Emeritus of Computer Science

John H.P. Castle,
B.Comm (McGill), CA
Professor Emeritus of Accounting

Melissa Clark-Jones,
B.A. (Mt. Holyoke), M.A. (American University Cairo),
M.A., Ph.D. (McMaster)

Professor Emeritus of Sociology

Patricia Coyne,
B.A. (Waterloo), M.A., Ph.D. (Toronto)
Professor Emeritus of Classical Studies

Joanne Craig,
A.B. (Bryn Mawr), B.A., M.A., (Oxon), Ph.D. (Harvard)
Professor Emeritus of English

Peter G. Cunningham,
M.B.A. (McGill)
Professor Emeritus of Accounting

Loretta Czernis,
B.A. (Toronto), M.T.S. (Harvard), Ph.D. (York)
Professor Emeritus of Sociology

Réjean L. Drolet,
B.Com., M.Com. (Laval), M.B.A. (Wharton School)
Professor Emeritus of Marketing

Celine Dudemaine,
B.A., B.E.S. (Laval), M.A., Ph.D. (Sherbrooke)
Professor Emeritus of Marketing

George Englebretsen,
B.A., M.A., Ph.D. (Nebraska)
Professor Emeritus of Philosophy

Adele M. Ernstrom,
B.A., Ph.D. (California)
Professor Emeritus of Fine Arts

Robert W.E. Forrest,
B.A., M.A. (Dublin), M.A., Ph.D. (McMaster)
Professor Emeritus of Religion

Tom Gordon,
B.A., B.Mus., M.A. (Central Missouri State), Ph.D. (Toronto)
Professor Emeritus of Music

James Gray,
M.A. (Aberdeen), M.A. (Oxon), Ph.D. (Montreal), F.R.S.A.
Professor Emeritus of English

London Green,
B.A., M.A. (San José), Ph.D. (Stanford)
Professor Emeritus of Drama

G. Stanley Groves,
B.Sc.(McGill), M.A.(Michigan)
Professor Emeritus of Economics

G. Hewson Hickie,
B.Sc., M.Sc.(McGill)
Professor Emeritus of Chemistry

Donald F.J. Hilton,
B.Sc.(Alberta), M.A.(Kansas),
M.Aq.(Simon Fraser), Ph.D.(Alberta), D.I.C.(London)
Professor Emeritus of Biology

Brian A. Jenkins,
B.A.(Manchester), M.A.(UCLA), Ph.D.(Manchester),
FRHistS.
Professor Emeritus of History

Andrew Johnson,
B.A. (Loyola), M.A. (McMaster), Ph.D. (McGill)
Professor Emeritus of Political Studies

Marc Kaltenbach,
Diploma HÉC (Paris), M.A. (Yale), Ph.D. (Toronto)
Professor Emeritus of Business Administration

Lowell W. Keffer,
B.A. (Toronto), M. ès A., D. ès L.(Laval)
Professor Emeritus of Études françaises et québécoises

Margaret Lawther,
B.A. (British Columbia), M.F.A. (York), B.Ed. (Toronto)
Professor Emeritus of Fine Arts

Paul Chia-Shiang Lin,
B.Sc.(Taiwan), M.Sc.(McMaster), Ph.D. (UNB)
Professor Emeritus of Mathematics

Michael Lustigman,
B.A. (Toronto), M.A., Ph.D. (York)
Professor Emeritus of Sociology

Robert MacGregor,
B.Sc. (California State University), M.B.A. (Toronto)
Professor Emeritus of Business Administration

Ken McLean,
B.A. (Waterloo Lutheran), M.A. (McMaster), Ph.D. (York)
Professor Emeritus of English

S.E. (Lissa) McRae,
B.Sc. (Alberta), M.B.A. (St. Mary's)
Professor Emeritus of Business Administration

Keith Moore,
B.Sc., M.Sc.(Birmingham), Ph.D.(Western)
Professor Emeritus of Biology

Ivan M. Myhul,
L.ès SPS(Louvain), Ph.D.(Columbia)
Professor Emeritus of Political Studies

Tarlock S. Nagpal,
B.A., P.T.(Punjab), M.Sc.(Aligarh), Ph.D. (UBC)
Professor Emeritus of Physics

John R. Oldland,
B.A.(Oxon), M.B.A.(Indiana), Ph.D.(London)
Professor Emeritus of Business Administration

Michel Parmentier,
B.A., M.A.(Western), Ph.D.(Toronto)
Professor Emeritus of Études françaises et québécoises

Garry V. Retzleff,
B.A., M.A.(UBC), Ph.D.(Toronto)
Professor Emeritus of English

Mary Rhodes,
B.A., M.A. (Cantab)
Professor Emeritus of Mathematics

Dieter K.H. Riegel,
Staatsexamen (Freiburg)
Professor Emeritus of German

Jonathan Rittenhouse,
B.A., (Loyola), M.A., Ph.D. (Clark)
Professor Emeritus of Drama

Bill Robson,
B. Comm. (Guelph), M.B.A. (McMaster),
Professor Emeritus of Business

Courtice. G. Rose,
B.A., M.A. (Western), M.A., Ph.D. (Clark)
Professor Emeritus of Environmental Studies and Geography

W. Gillies Ross,
B.A., (R.M.C.), B.A., M.A. (McGill), Ph.D. (Cambridge)
Professor Emeritus of Geography

Robert B. Schenk,
B.A. (Western), M.B.A. (S.U.N.Y.), C.A., C.M.A.
Professor Emeritus of Accounting

Willam A. Shearson,
B.A., M.A., Ph.D.(Toronto)
Professor Emeritus of Philosophy

Fakhari A. Siddiqui,
B.Sc., M.Sc.(Beirut)
Professor Emeritus of Economics

Gwendolyn Trottein,
B.A. (Indiana), M.A., Ph.D. (Illinois)
Professor Emeritus of Fine Arts

Chi Te Tsai,
B.Sc.(Taiwan), M.Sc.(Queen's), Ph.D.(Laval)
Professor Emeritus of Mathematics

Dimitri Vouliouris
B.Sc. (Athens Grad Shool of Economics & Business), M.Sc. (London)
Professor Emeritus of Computer Science

P.E. Wilson, script,
B.Sc., Dip. Ed., (London), A.F.I.M.A., M.Sc. (Acadia)
Professor Emeritus of Mathematics

C. Wojatsek,
B.A. (Bratislava, Czech.), M.A. (Debrecen, Hung.), Dip. Ed. (Debrecen, Hung.), Ph.D. (Montréal), Hum.Sc.D.
Professor Emeritus of History

Faculty

WILLIAM AND NANCY TURNER AWARD FOR TEACHING

In 1991, then Chancellor William I.M. Turner Jr. established an award for excellence in teaching, in co-operation with the Bishop's University Faculty Council and the Student's Representative Council. This award of $1,000 is given annually at Convocation to a member of faculty who has made an extraordinary contribution to the education of Bishop's students through teaching. Nominations for the award may come from current students and alumni.

Winners of this prestigious award include:

1991 Dr. Keith Moore, Department of Biology
1992 Dr. Michael Fox Department of Geography
1993 Prof. Lissa McRae Business: Human Resources
1994 Dr. Michael Childs Department of History
1995 Dr. Karl Kuepper Department of German
1996 Dr. Lorne Nelson Department of Physics
1997 Dr. Andrew Knight Department of Political Studies
1998 Dr. Andrea Drumheller Department of Psychology
1999 Dr. Stuart McKelvie Department of Psychology
2000 Dr. Marianne Vigneault Department of Economics
2001 Professor Denise Fortier Business: Management/Human Resources
2002 Dr. Michael Lustigman Department of Sociology
2003 Dr. Dale Stout Department of Psychology
2004 Dr. Karl Wegert Department of History
2005 Professor George Rideout Department of Drama
2006 Dr. Gerry Coulter Department of Sociology
2007 Dr. Harvey W. White Department of Religion
2008 Dr. Marianne Vigneault Department of Economics
2009 Dr. Ambrose Leung Department of Economics
2010 Dr. Stuart McKelvie Department of Psychology
2011 Dr. Katsunori Hizawa Department of Modern Languages, Literatures, and Cultures
2012 Dr. Jessica Riddle Department of English
2013 Prof. Michael Teed Business & Human Resources
2014 Dr. Michelle Murray Department of Religion

Faculty

WILLIAMS SCHOOL OF BUSINESS

Dean

Francine Turmel,
Ph.D. (Laval), B.A.A. (Laval), C.A.

Hafid Agourram,
B.A. (Rhode Island), M.S. (Calif.) M.A. (Spain), DBA. (Sherbrooke); Professor

Sylvie A.F.A. Béquet,
M.Sc., (Sherbrooke); Professor

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