

Admission to the Co-operative Education Profile

Students must submit an application to be admitted to the program. Full-time students in the Honours B.B.A., B.B.A. or B.A. Business Major programs who have completed the entire application, who have successfully completed BMG 191 and who have a minimum cumulative average of 70% upon application are eligible for admission to the Co-operative Education Profile. Students receiving advanced credits will be evaluated on a case-by-case basis; however, students who receive advanced credits in excess of 54 credits or who are in business as a second major will not be eligible for the co-operative education profile. Students who are in their first year of studies will be given admission priority. All other students will be evaluated on a case-by-case basis.

A student is then required to maintain a minimum cumulative average of 70% and its full-time status in order to be eligible to remain in the Cooperative Education Profile and to participate in any of the program's activities. Please consult the Co-operative Education section on the Bishop's University website for important dates, deadlines and updates at www.ubishops.ca/coop.

Work Term Registration

Once a student has signed the Co-operative Education Agreement, the student may not drop the course associated with work placement, except for exceptional circumstances. A student who decides to do so will not be able to stay in the Co-operative Education Profile.

Evaluation

Each course 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. 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 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 Co-op and Academic Advisor supervising the placement. Employer evaluations are confidential and are not reported on the student's transcript.

The work term report covers the comprehensive analysis of competencies acquired during the work placement. An outline of relevant competencies will be provided to students.

Normal academic regulations apply to the conduct and evaluation of the courses.

Entrepreneurship Profile (12 credits) PROENT

In accordance with the growing entrepreneurial movement worldwide and the wide interest of our students, we have designed a profile that enables the understanding of the entrepreneurial process of starting, growing and harvesting a new venture. By performing both in-depth comprehension of entrepreneurial process and hands-on assignments, students will learn how the entrepreneurial mind thinks, how a product/market vision is developed, how an opportunity is assessed, and how resources are harnessed to take advantage of that opportunity, throughout the entrepreneurial networks and community. The entrepreneurship profile is a relevant and valuable add-on to any business concentration, except the Marketing and Entrepreneurship concentration.

Entrepreneurship Profile Courses: 4 courses

The following courses are required for this profile:

BMG 214	Introduction to Entrepreneurship: New Venture Creation
BMK 214	Consumer Behaviour
BMK 291	Entrepreneurship Practicum I
BMK 392	Entrepreneurship Practicum II

Students pursuing the Marketing and Entrepreneurship concentration are not eligible to add the Entrepreneurship profile to their concentration.

Information Technology Profile (12 credits) PROINF

The fundamental liaison between business and IT is that business people first identify the business problems, develop logical solutions and then choose the appropriate IT to support these solutions. The premise for this unique approach is that business initiatives should drive technology choices. The expected learning outcomes of the IT profile are to enable students understand typical business problems and how these problems are resolved by typical IT solutions. The IT profile is a relevant and valuable add-on to any business concentration.

Professors Agourram, Gagnon

Information Technology Profile Courses: 4 courses

Any four courses amongst the following are required for this profile:

BCS 210	IT Entrepreneurship
BCS 212	Electronic Commerce
BCS 216	Managing Information Technology
BCS 313	System Design and Development
BMA 142	Quantitative Modeling

International Business Profile (12 credits) PROIBU

The international business profile provides students with a multi-disciplinary analytical framework for mapping the global business environment, analyzing international business strategies, and the management of international business operations. It builds on the existing strengths of the core business program to provide a global perspective and the necessary tools for the management of multinational enterprises and the internationalization processes of small and medium size enterprises. It exposes students to a wide range of resources and analytical models for analyzing and managing country political risk, currency risks, economic risks, and cross-cultural differences. By taking this profile

students will examine and apply existing analytical frameworks for global strategy formulation, knowledge transfer across foreign subsidiaries, management of international joint ventures and strategic alliances, management of international mergers and acquisitions, global supply chain management, financial management of international firms, international marketing and export management. Students are strongly encouraged to complement this profile with a study abroad exchange. The International Business profile is a relevant and valuable add-on to any business concentration, except the Global Management and Leadership concentration.

Professors Béquet, Fortier, Rutihinda

International Business Profile Courses: 4 courses

The following courses are required for this profile:

BMG 315 International Management
BMG 345 International Marketing and Export Management
BFN 361 International Finance

Plus any one course (3 credits) of:

BMG 325 Leadership in a Multicultural World
BMG 335 Global Value Chain Analysis
BMG 355 International Entrepreneurship

Students pursuing the Global Management and Leadership concentration are not eligible to add the International Business profile to their concentration.

II. Honours B.B.A.

(126 credits)

BBH+ Concentration

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, a cumulative average of 75% in all courses taken in their program.
3. obtain a cumulative average of 75% upon graduation
4. register for BMG 352 (Honours Project) – 6 credits

III. B.A. Business Major

(120 credits)

MAJBUS

Required core courses	42 credits
Business electives	18 credits
Non-Business electives*	42 credits
Business or non-Business electives**	18 credits

* If no credits were advanced for MAT 196 and MAT 197, students must successfully complete these courses as part of their program.

** Co-op Business electives courses (BMG 391, BMG 392 and BMG 393) will only count in this portion of the program.

The B.A. Business Major requires the completion of the following courses:

BAC 121	Purposes of Accounting
BAC 221	Introduction to Managerial Accounting
BCS 220	Management Information Systems
BFN 100	Basic Finance
BHR 221	Organizational Behaviour
BHR 224	Human Resource Management
BMA 140	Statistical Analysis for Business Decisions I
BMG 100	Understanding Business and Society
BMG 215	Introduction to International Business
BMG 311	Business Policy
BMK 211	Marketing Management
BMS 231	Operations Management
ECO 102	Principles of Economics: Microeconomics
ECO 103	Principles of Economics: Macroeconomics
ILT 100	Information Literacy and Critical Thinking Lab (1-credit lab)

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

In addition to the core courses, students will also be required to successfully complete the Business electives, Non-Business electives and optional courses for a total of 120 credits.

IV. Major in Management

(48 credits)

MAJMG

(Application required – see section 4b Transfers from other Bishop's programs under Regulations Applying to All Business Programs)

(For non-business students only. Students following the B.A. Arts Administration, B.A. Major Information Technology or the B.A. Major Sports Studies Business and Society concentration programs are not eligible for the Major in Management.)

The Major in Management requires the completion of the following courses:

Required core courses	36 credits
Business electives*	12 credits

The 12 required core courses are:

BAC 121	Purposes of Accounting
BAC 221	Introduction to Managerial Accounting
BCS 220	Management Information Systems
BFN 100	Basic Finance
BHR 221	Organizational Behaviour
BHR 224	Human Resource Management
BMA 142	Quantitative Modeling
BMG 100	Understanding Business and Society
BMG 214	Introduction to Entrepreneurship: New Venture Creation
BMG 215	Introduction to International Business
BMK 211	Marketing Management
ECO 103	Principles of Economics: Macroeconomics
Plus 12 credits of Business electives*	

* Prerequisites for the chosen Business electives courses must have been met or if not, permission from the Departmental Chair must have been granted

V. Joint Programs

1. B.A. Arts Administration – see the Division of Humanities section of the calendar for program requirements.

The 75-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 the core courses in one of the creative arts (Drama, Fine Arts, Film Studies, Music or Public History), students also take 15 required credits in Arts Administration. As they proceed through the program, they will enrol in two practicum courses: AAD 253 (Internal Practicum), where they will be placed with an on-campus organization (Centennial Theatre, Foreman Art Gallery, Musique Chez Nous, Drama department, etc.) for their first work experience; and nearer to graduation AAD 353 (External Practicum), in an off-campus cultural venue consistent with their disciplinary focus.

2. B.A. Major in Information Technology – see the Computer Science 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.

3. B.A. Major in Sports Studies – see the Sports Studies Major and Minor section of the calendar for program requirements.

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

VI. Minor in Business Administration (24 credits) MINBUS

(Application required – see section 4b Transfers from other Bishop's programs under *Regulations Applying to All Business Programs*)

(For non-business students in good University Academic Standing only. Students following the B.A. Arts Administration, B.A. Major Information Technology or the B.A. Major Sports Studies Business and Society concentration programs are not eligible for the Minor in Business Administration.)

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

- BAC 121 Purposes of Accounting
- BMG 100 Understanding Business and Society
- BMA 140 Statistical Analysis for Business Decisions I
(requires MAT 196)
- BFN 100 Basic Finance
(requires BAC 121, ECO 103 and MAT 196)
- BMK 211 Marketing Management
- Plus 9 credits of Business electives

It is important to note the following:

1. While the Minor in Business Administration 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 100 (see above).

2. Students who have been granted course equivalence for BMA 140 must replace BMA 140 with a Business elective course.
3. Students pursuing the Minor in Business Administration must respect all prerequisite requirements for senior Business courses they take as 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.
4. It is strongly suggested that students consult the Academic Advisor or the Department Chair prior to embarking on this Minor.

VII. Minor in Entrepreneurship (24 credits) MINBEN

(Application required – see section 4b Transfers from other Bishop's programs under *Regulations Applying to All Business Programs*)

(For non-business students in good University Academic Standing only. Students following the B.A. Arts Administration, B.A. Major Information Technology or the B.A. Major Sports Studies Business and Society concentration programs are not eligible for the Minor in Entrepreneurship.)

The Minor in Entrepreneurship requires the completion of the following courses:

- BMG 214 Introduction to Entrepreneurship:
New Venture Creation
- BMK 211 Marketing Management
- BMK 214 Consumer Behaviour
- BMK 291 Entrepreneurship Practicum I
- BMK 392 Entrepreneurship Practicum II
- Plus 9 credits of Business electives

It is important to note the following:

1. Students pursuing the Minor in Entrepreneurship must respect all prerequisite requirements for senior Business courses they take as 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.
2. It is strongly suggested that students consult the Academic Advisor or the Department Chair prior to embarking on this Minor.

VIII. Certificate in Business Administration (30 credits) CONBUS

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

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 the program:

The Certificate in Business Administration requires that applicants complete MAT 196.

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

BAC 121	Purposes of Accounting
BMG 100	Understanding Business and Society
BMA 140	Statistical Analysis for Business Decisions I (requires MAT 196)
BFN 100	Basic Finance (requires BAC 121, ECO 103 and MAT 196)
BMK 211	Marketing Management
Plus 15 credits of Business electives	

Regulations Applying to All Business Programs

1. 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 Academic Advisor or Department Chair prior to course selection.

2. Double counting policy

In cases where B.B.A. students are pursuing more than one concentration, double counting will be allowed and there will not be any need to replace the courses with other business courses. In order to graduate with more than one concentration, students will be required to have completed all requirements for each concentration.

Exceptions

Students pursuing any concentration are not eligible to graduate with the General Business stream.

Students pursuing the Global Management and Leadership concentration are not eligible to add the International Business profile to their concentration.

Students pursuing the Marketing and Entrepreneurship concentration are not eligible to add the Entrepreneurship profile to their concentration.

3. Double Failure Rule

Any student who twice receives a failing grade in a course offered by the Business Department or in ECO 102, ECO 103, MAT 196 or MAT 197 will not be permitted to repeat the course again. If this is a **required** course to graduate with any business programs, the student will not be eligible to graduate with that program. This regulation also applies to students in non-business programs where a business course is **required** to complete their degree. Receiving twice a failing grade in a course precludes a student from later receiving transfer credits for this course.

4. Transfers

a. Between Business programs

Students already enrolled in the B.B.A. or the B.A. Business Major wishing to transfer to the Major in Management can do so at any time upon request, provided that they have no double failure in a course required by the Major in Management. They would then have 12 months following the transfer to be admitted in an additional primary major program. Failing to do so will prevent them from graduating with a Major in Management.

Students in the B.B.A. or B.A. Business Major can transfer between the two programs at any time upon request.

b. From other Bishop's programs

To be eligible to transfer into either the B.B.A. or B.A. Business Major from a non-business program, a student must have successfully completed at least 30 credits at Bishop's and have achieved a minimum cumulative average of 75% based on all courses attempted. Students may also be required to meet with the

Dean of Business for an interview. The number of student transfers is determined based on final enrolment figures and the quota for the School's maximum enrolment. Deadline to apply is May 31 for the Fall semester and October 1 for the Winter semester. This regulation also applies to part-time general students.

To be considered for entry into the Major in Management, students must already be admitted to a primary major at Bishop's, have successfully completed at least 30 credits at Bishop's University and have achieved a minimum overall average of 75% based on all courses attempted. The Major in Management can only be a second major.

To be considered for entry into the Minor in Business Administration, students must be in good University Academic Standing.

To be considered for entry into the Minor in Entrepreneurship, students must be in good University Academic Standing.

5. WSB Academic Standing

Notwithstanding the University regulations on Academic Standing, the Williams School of Business has its own regulations on maintenance of good standing. Students with a cumulative average of 60% or more are in good standing in the B.B.A., B.A. Business Major or Major in Management programs.

After 24 credits attempted, students with a cumulative average less than 50% must withdraw from their program. Those with a cumulative average between 50% and 59% will be permitted to remain in the Williams School of Business for one semester in which they must improve their cumulative average to at least 60%. Students who do not achieve good standing will not be eligible to continue in the B.B.A., B.A. Business Major or Major in Management programs at Bishop's University, nor will they be eligible to later transfer back into these programs.

Students who fail to maintain the WSB Academic 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.

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

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., B.A. Business Major and Major in Management)

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

Students will need to meet all the requirements in their primary major to be allowed to graduate with the Major in Management.

8. International Student Exchanges

Students need a minimum cumulative average of 70% to qualify to apply to go on exchange and must maintain a minimum cumulative average of 70% in the semester prior to leaving on exchange to remain eligible to go on exchange. Also, students studying on exchange, whether it be for one or multiple semesters, will only be recognized a maximum of 9 credits in total in their concentration. Students are invited to consult with the Departmental Chair and the International students' office for more important academic information concerning exchanges and course equivalencies approval.

Exceptions

B.B.A. students in the Accounting, Finance or Marketing and Entrepreneurship concentration streams are allowed to take BMA 141 Statistical Analysis for Business Decisions II while on exchange, in addition to these 9 credits.

B.B.A. students in the Global Management and Leadership concentration or the General Business stream are allowed to take 3 other credits in their concentration while on exchange, in addition to these 9 credits.

BUSINESS COURSES

BAC 121 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 122 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 211 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 212 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 221 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 311 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 312 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 and BAC 221

BAC 322 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.

Prerequisite: BAC 312

BAC 331 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 332 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 340 Auditing: 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 212

BAC 341 Auditing: The Process 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 340

BCS 115 Spreadsheet Applications 1-0-1
Use of spreadsheets has become very common in all business disciplines to organize complex issues into simpler models. Its use has become essential to increase one's productivity and decision support. Workers and prospective employees are required to learn Spreadsheet software to enter or remain in the workplace. This course will provide a strong foundation to allow students to utilize spreadsheets in any discipline and also adapt to their specific need. The topics include: working with formulas and Functions, Creating charts and Graphics, analyzing data with Excel, using Advanced Excel features such as, Pivot tables, what if Analysis, goal seeking and solver. This course does not count towards overall degree credit count.

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: BCS 220

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: 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 220 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 100

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

BFN 100 Basic Finance 3-3-0
Income, inflation, interest rates, foreign exchange rates, prices of commodities, recessions, etc. are factors affecting businesses performance. Understanding the economic environment as well as the drivers of the different sectors of the Canadian economy and how these are impacting financial statements of businesses is the main focus of this course.

Prerequisites: BAC 121, ECO 103 and MAT 196

BFN 200 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 and MAT 196

BFN 203 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 210 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 and BMA 140

BFN 215 Small Business Finance 3-3-0
Small business owners or entrepreneurs need to know how to (a) read basic financial statements; (b) understand product costing, initial profit-and-loss development and break-even analysis; (c) manage cash flow; and (d) understand various revenue models. This course will use Excel spreadsheets to develop practical financial projections that are immediately relevant to business operations.

Prerequisite: BFN 100 or BFN 200

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.

Prerequisites: BFN 203 and BFN 210

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 and BFN 210

BFN 335 Topics in Finance I 3-3-0

This is an advanced course in Finance covering special topics including, but not limited to, case studies in corporate finance and investments, complexity and networks, trading strategies, derivatives and hedging, foreign exchange risk management, international capital budgeting, risk management in financial institutions, and any other topic that might reflect current research interest of faculty members. This course should be of particular interest to those students expecting to pursue a career in the investment industry and/or graduate studies in Finance.

Prerequisites: BFN 203 and BFN 210

BFN 336 Topics in Finance II 3-3-0

This course is expanding on some themes already covered in other Finance courses, or adding new subjects including, but not limited to corporate finance and investments, complexity and networks, trading strategies, derivatives and hedging, foreign exchange risk management, international capital budgeting, risk management in financial institutions, and any other topic that might reflect current research interest of faculty members. The course will be delivered through regular class lectures, individual case studies, or group projects.

Prerequisites: BFN 203 and 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 and BFN 210

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 203 and BFN 210

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 361 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 100 or BFN 200

BHR 221 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 100

Note: Students who complete BHR221 cannot receive credit for PSY309. For prerequisite purposes PSY309 is equivalent to BHR 221.

BHR 224 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

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 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 and BMA140 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

BMA 140 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 141 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.

Prerequisites: MAT 197 and BMA 140

This course is not open to students with credit for EMA 141.

BMA 142 Quantitative Modeling 3-3-0

This is an introductory course dealing with quantitative models used in decision-making. Focus of this course would be in developing analytical skills to create precise and structured models for understanding of a complex business problem. Topics to be covered in this course would include, dash-boarding, linear programming, project management, etc. to demonstrate how analytical techniques and statistical models can help enhance decision making by converting data to information and insights for decision making. Excel would be used to impart students how to understand, analyze, summarize and communicate quantitative information in a business setting through spreadsheet models and presentations. Other specialized software for project management (MS Projects) and other modelling would be used where needed.

BMG 100 Understanding Business and Society 3-3-0

With the onset of Globalization, the rapidly improving economic conditions have led to many inequities and issues rising to the forefront. Income inequality, environmental protection and regulations, cultural extinction are just some of the many issues that are impacting all stakeholders. As businesses, governments and workers attempt to balance growth and increases in productivity to improve standards of living with social and economic costs, understanding multiple viewpoints will be critical to ensuring the future of this planet. In this class, you will be drawn into these debates and explore the underlying perspectives related to theories of society and human nature and in their value presuppositions.

BMG 191 Fundamentals of Workplace Preparation and Professional Development**1-0-1**

This course introduces students to notions of professional development in order to successfully transition into the workplace. Topics include job search and networking techniques, personal branding and self-awareness, cover letter and resume preparation, interviewing skills as well as workplace etiquette and professionalism in the workplace. This course is mandatory for all co-operative education students, but does not count towards overall degree credit count.

Note: Restricted to Business and Computer Science students only and is not included in the calculation of the cumulative average.

BMG 214 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.

BMG 215 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: BMG 100 and BMK 211

BMG 221 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 311 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. Division.

Prerequisites: All other Required Core courses. BMS 231 may be taken concurrently.

Note: Permission of the Departmental Chair is required for non B.B.A. or non B.A. Business Major students, including exchange students.

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 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 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 100 and BHR 221

BMG 335 Global Value Chain Analysis**3-3-0**

The main aim of this course is to develop students' skills and capabilities for analyzing industries across countries. With this course students will learn: (a) How to apply the global value chain analytical framework to analyze the structure and

dynamics of different actors in global industries, (b) How to examine the complex network of relationships between firms and institutions that span a wide range of countries, (c) How value chains are controlled and coordinated by different governance structures, (d) How to determine global competitive positions of firms in a given industry and geographic location especially in the emerging markets of Asia, Latin America and Africa. (e) How the participation of emerging markets drives the dynamics of global value chains, (f) How global value chains can be used to create social value (g) The different methods and strategies used by countries, regions and other economic stakeholders to maintain or improve their positions in the global economy.

Prerequisite: BMG 215

BMG 345 International Marketing and Export Management**3-3-0**

The aim of this course is to provide students with the necessary tools and resources that will enable them to manage the process of exporting and marketing products across countries. The course will examine the broad issues related to exporting and marketing products, countries and services as well as technical concepts and processes that are specific to exporting. At the end of this course students will be able to: (a) Know the necessary steps required to successfully export products and services (b) Appreciate the opportunities, challenges and risks related to exporting (c) Develop an international export and marketing business plan, (e) Identify the escalating costs related to exporting (f) Differentiate the different pricing methods and their implications to profitability and competitiveness in foreign markets, (g) Understand the necessary documentation and institutions involved in the exporting process, (h) To follow emerging digital technologies and exploit them for international competitive advantage.

Prerequisite: BMG 215

BMG 351 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 Division.

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 defense.

Prerequisite: acceptance in the Honours program

BMG 355 International Entrepreneurship**3-3-0**

International entrepreneurship is an interdisciplinary field that is based upon theoretical foundations of international business and entrepreneurship. The rapid scale and intensity of globalization and the advancement of digital technologies has created opportunities for entrepreneurs to create new ventures that take advantage of these new technologies to exploit opportunities that emerge across the world. The aim of this course is to provide students with the necessary tools and frameworks for developing new ventures that take advantage of emerging global opportunities for both, for profit entrepreneurs, as well as, non-profit social entrepreneurs.

Prerequisite: BMG 215

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 and BMG 191

Note: It cannot count as a 300-level Business course but only as a Business elective.

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

Note: It cannot count as a 300-level Business course but only as a Business elective.

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

Note: It cannot count as a 300-level Business course but only as a Business elective.

BMK 211 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 214 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 291 Entrepreneurship Practicum I 3-1-2

The main goal of Entrepreneurship Practicum I is to guide teams through the process of how to develop a product/market vision. Student teams will work through exercises aimed at developing a joint core competence description for the team, linking this joint core competence to emerging market opportunities using market research, experiencing a mentoring relationship and developing a product concept based on their product/market vision. This course is to be taken in the same calendar year as BMK392, which will be offered in the winter term.

Prerequisites: BMG 214, BMK 211 and BMK 214

BMK 321 Marketing Research 3-3-0

The course equips students with the key concepts and methods of marketing research, and allows students to understand how to apply those tools to solve real-life business problems. 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.

Prerequisites: BMK 214 and BMA 141

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 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 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 214

BMK 355 Happiness Marketing 3-3-0

The course discusses practical applications of positive psychology in marketing. 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 introduces cutting-edge marketing tools which help create win-win situations for both consumers and companies alike.

Prerequisites: BMK 214

BMK 381 Marketing Policies 3-3-0

This course integrates the marketing elements in an overall business approach and is designed as a capstone course for graduating students in the marketing and entrepreneurship stream. It focuses on helping students become a strategic marketer, so that they can create, gain support for and execute marketing plans that will build strong and enduring businesses. Special consideration will be given to the playing of a realistic marketing simulation game.

Prerequisite: BMK 214

BMK 392 Entrepreneurship Practicum II 3-1-2

The team from Entrepreneurship Practicum I builds a business plan to take the concept developed in BMK 291 to the next stage. The exercises will include niche market detailing, idea blueprinting, prototype/concept development, concept testing with lead users in the market place, web site development, brand creation and final market tests. The final business plan will be vetted with potential funding organizations/investors. Students are expected to enrol in both BMK 291 and BMK 392 in the same calendar year.

Prerequisite: BMK 291

BMS 231 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 140

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.

Courses Offered on a Sporadic Basis

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 203 and BFN 210

BHR 312 Labour Relations 3-3-0

Through an integration of theory and practice, the objective of this course is for students to be able to understand and manage Canadian labour relations. Using a broad interdisciplinary context, this course surveys the major aspects of the union-management relationship with a focus on the following: the establishment of union bargaining rights; the negotiation process; the administration of the collective agreement; and, the role of strikes and lockouts. Other topics include the changing nature of employment and the impact of globalization; minimum conditions of work; and the uniqueness of the public sector. When appropriate, reference will be made to other NAFTA and EU jurisdictions.

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 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 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 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.

Prerequisite: BHR 224 or POL 214

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 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 330 Case Competition 3-3-0
Through the use of case studies and discussion in class and in small groups, students will learn to better understand the forces shaping the current business environment and the processes of formulating, and efficiently implementing, a powerful presentation to a panel. Critical analysis of current business practices, integrative decision-making and presentation skills will be developed. Strategy formulation and implementation will be investigated in the context of complex business case competitions.

Prerequisite: Permission of Departmental Chair

BPH 240 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.

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.

Prerequisite: 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.

Prerequisite: 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 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 214

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: BMA 141

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

BUS 200 Business Experiential Learning Project (for-profit) 3-1-10
Students will provide business services to "for-profit" organizations based on the needs that are mutually determined by both the students and the organization. The student or student team will be involved in creating a needs analysis, providing strategic recommendations as well as a critical reflection of the learning that occurred. The course will normally take place over a regular semester or the summer. The course must be supervised and evaluated by a business professor and an organizational representative. Each BUS200 course is unique; therefore, the description of the mandate and its objective must be approved by the Business Division for each experience.

BUS 201 Business Service Learning Project (not-for-profit) 3-1-10
Students will provide business services to "not-for-profit" organizations based on the needs that are mutually determined by both the students and the organization. The student or student team will be involved in creating a needs analysis, providing strategic recommendations as well as a critical reflection of the learning that occurred. The course will normally take place over a regular semester or the summer. The course must be supervised and evaluated by a business professor and an organizational representative. Each BUS 201 course is unique; therefore, the description of the mandate and its objective must be approved by the Business Division for each experience.

BUS 202 International Business Experience 3-0-10
The International Business Experience course is an ideal experience for students who want their first study abroad experience or those who are unable to study abroad for a semester. This course is designed to provide students with a truly real-world experience in international business, where they will gain an understanding of the local culture and learn the challenges and opportunities of doing business in that country, firsthand. Students will participate in business visits and discussions with the country's business leaders, while sharing in a different and unforgettable cultural experience.

Note: Countries will be determined in collaboration with professors who are interested in engaging in this type of course as well as availability of resources and contacts in that given country.

The School of Education

Dean

Corinne Haigh,

B.A. (Mount Allison), M.A., Ph.D. (Western)

Faculty

Avril Aitken,

B.Ed., M.Ed. (McGill), Ph.D. (Ottawa); Full Professor,

Eva Mary Bures,

B.A. (Reed College), M.A., Ph.D. (Concordia); Full Professor
Graduate Program Co-ordinator

Anthony Di Mascio,

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Departmental Chair

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Sunny Man Chu Lau,

B.A., M.A., M.Ed. (Hong Kong), Ph.D. (OISE/UT); Associate Professor

Darren Millington,

B.A. (Bishop's), M.F.A. (UQAM), Ph.D. (Concordia);
Full Professor (joint appointment with the Fine Arts Department)

C. Darius Stonebanks,

B.A., M.A.Ed. (Concordia), Ph.D. (McGill);
Full Professor

Lisa Taylor

B.A., B.Ed., M.A., Ph.D.(OISE); Full Professor

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 final practicum of step one. Success on this exam 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 three to four years to complete the course of studies, depending on their academic record.

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.

Program Overview

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.

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.

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 into 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 128 / EDU 129): numerical grade
- b. Practicum II (EDU 227 / EDU 228 / EDU 229): (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 128 / EDU 129), Reflective Practicum (EDU 228 / EDU 229), 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 courses are directly associated with 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 ten profiles: Mathematics, English, English Second Language Teaching, Social Studies, a Science Teaching Major (one of Biology, Chemistry or Physics), Fine Arts, Drama or Music.

The first degree, the B.A. or B.Sc., 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 ten 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 (45 credits or 54 credits for Fine Arts, Drama and Music Majors) MAJESS

Major in Secondary Education – Courses

EDU 102 Philosophy of Education

OR

EDU 218 History of Education

EDU 122 Using Technology to Support Learning.....3 credits

EDU 139 Foundations of the Teaching Profession
(Secondary)..... 3 credits

EDU 203 Educational Psychology3 credits

EDU 239 Teaching and Learning at the Secondary
Level : Practice and Reflection.....3 credits

EDU 285 The Reading Process3 credits

EDU 305 Social Justice and
Anti-Discrimination Education3 credits

EDU 309 Effective Teaching Methods3 credits

EDU 315 Applying the Psychology of Learning
and Motivation to the Design of
Learning Environments3 credits

EDU 406 Student Centered Evaluation3 credits

One of:

EDU 211 Introduction to Young Adult Literature and Texts
"Beyond the Canon"

OR

EDU 212 Mind, Brain, and Education

OR

EDU 218 History of Education

OR

EDU 220 Linguistic Diversity

OR

EDU 303/SOC 299 Sociology of Education

OR

EDU 204 Indigenous Education

OR

EDU 205 Education, Colonialism and De-Colonization

OR

SLP 399 Situated Learning and Praxis.....3 credits

33 credits

Practicum Requirements

EDU 129 Orientation to Professional Practice3 credits
with co-requisite ILT 101 Information Literacy
Critical Thinking Lab(1 credit)

EDU 100 English Exam for Teacher Certification

EDU 229 Practicum II– Secondary (full Year)3 credits

EDU 329 Professional Practice6 credits

12 credits

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

EDU 232 Elementary Curriculum (Cycle 1-3)3 credits

EDU 321 Methods in the Teaching
of Language Arts I.....3 credits

EDU 335 Methods in the Teaching of Creative Arts ...3 credits

9 credits

B.A. Double Major Mathematics and Secondary Education (48 credits Major in Mathematics + 45 credits in Education) MAJEDM

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

OR

MAT 317 Complex Analysis.....	3 credits
MAT 322 Introduction to Modern Algebra 1	3 credits
Plus 12 credits from any MAT 100 level or higher...	12 credits
Plus 3 credits from MAT 200 level or higher.....	3 credits

Total of credits for the Major in Mathematics: 48 credits

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

B.Sc. Double Major Mathematics and Secondary Education (63 credits Major in Mathematics + 45 credits in Education) MAJEDM

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

OR

MAT 317 Complex Analysis.....	3 credits
MAT 322 Introduction to Modern Algebra 1	3 credits
Plus 12 credits from any MAT 100 level or higher...	12 credits
Plus 3 credits from MAT 200 level or higher.....	3 credits
PHY 191 Introductory Physics I (Mechanics)	3 credits
PHY 192 Intro PHY II (Electricity & Magnetism)	3 credits
Plus 9 credits of electives in any science course.....	9 credits
<i>MAT 191/192/198/199 may not be used for MAT 100 level</i>	

Total of credits for the B.Sc. Major in Mathematics: 63 credits

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

B.A. Double Major English and Secondary Education (48 credits Major in English + 45 credits in Education) MAJEEN

ENG 100 – Introduction to English Studies	3 credits
ENG 101 – Responding to Literature	3 credits
ENG 112 – English Literary Tradition:	

The Middle Ages and the Renaissance.....3 credits

ENG 113 – English Literary Tradition II:

The Eighteenth Century to the Present.....3 credits

two of: ENG 110 – English Writers of Quebec,

ENG 111 – Canadian Short Story,

ENG 252, ENG 253, ENG 2756 credits

one of: ENG 123, ENG 215, ENG 228, ENG 358, **OR**

ENG 3753 credits

one of: ENG 223, ENG 224, ENG 225 **OR**

DRA 222.....3 credits

one of: ENG 200, ENG 201, ENG 203, ENG 204,

ENG 206 **OR** ELA 2013 credits

one of: ENG 210 **OR** EDU 2113 credits

one of: ENG 234, ENG 236, ENG 239, ENG 291 **OR**

ENG 353.....3 credits

36 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 (48 credits) and Secondary Education (45 credits) MAJETE

EDU 105 Introduction to Linguistics for Language Teaching	3 credits
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EDU 206 Perspectives on Second Language Acquisition	3 credits
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EDU 308 Teaching English Grammar	3 credits
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EDU 207 Teaching Young Second Language Learners	3 credits
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EDU 307 Literature and Language Teaching	3 credits
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ENG 116 Effective Writing	3 credits
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EDU 208 Drama Techniques for Language Teaching ...	3 credits
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EDU 209 Oral Communication	3 credits
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ENG 210 Children's Literature	3 credits
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EDU 210 Critical Pedagogical Orientation to Second Language Teaching	3 credits
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Two of: (6 credits)

ENG 102, ENG 104, ENG 108, ENG 110, ENG 111

Two of: (6 credits)

ENG 200, ENG 201, ENG 203, ENG 204, ENG 219, ENG 236,
ENG 257, ENG 275, ENG 285, ENG 290, ENG 296

One of: (3 credits)

ENG 278, ENG 280, ENG 282, ENG 283 , ENG 284, ENG 288,
ENG 293, ENG 294, ENG 295, ENG 297

One of: (3 credits)

EDU 213 Didactique de français langue seconde ...	3 credits
EDU 220 Linguistic Diversity	3 credits
EDU 325 Selected Topics in Teaching ESL	3 credits
FRA 227 Le génie de la langue: stylistique comparée du français et de l'anglais	3 credits
PSY 386 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 (24 credits) MINTSL

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 12 credits from the courses below:

EDU 105 Introduction to Linguistics for Language Teaching
EDU 206 Perspectives on Second Language Acquisition
EDU 207 Teaching the Second Language Learner
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 220 Linguistic Diversity
EDU 325 Selected Topics in Teaching ESL

B.A. Double Major Social Studies and Secondary Education (24 credits in Environment and Geography + 24 credits in History + 45 credits in Education) MAJESO

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 in Environment and Geography

24 credits in History including:

Required courses

Two of:

HIS 104	The West in the World to 1750	
HIS 105	The 20th Century World	
HIS 108	A Global History of Indigenous Peoples	
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	History and Heritage	
HIS 265	Quebec: Political Change and Industrialization 1840–1930	
	One course in European History at the 200 level	
	One course in History of the Africa, Asia, Latin America OR History of the United States at the 200 level	6 credits

One from the list of Global Courses:

HIS 241, HIS 245, HIS 249, HIS 285, HIS 289 OR HIS 292

24 credits in History

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 (48 credits Biology; appropriate labs + 45 credits in Education) MAJEBI

BIO 196 Introductory Cellular & Molecular Biology	3 credits
BIO 201 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 208 / BIL 208 Genetics & Lab	3 credits / 1 lab credit
BIO 233 / BIL 233 Human Anatomy ..	3 credits / 1 lab credit
BIO 311 Quantitative Methods in Biology.....	3 credits
BIO 336 Animal Physiology I	3 credits

3 credits Biochemistry

BCH 210 General Biochemistry	3 credits
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3 credits Physics

PHY 101 Statistical Methods in Exp. Science.....	3 credits
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Plus five of:

BCH 313 / BCL 313*, BCH 383, BIO 327, BIO 394, BIO 337, BIO 330, 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, PBI 379**, PBI 380**

(* Prerequisite CHM / CHL 111 ** Prerequisite PBI 288)

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 (48 credits Chemistry; appropriate labs + 45 credits in Education)

MAJECH

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

Choose 3 from the following selection of courses

(no required labs):

CHM 311 Organic Chemistry III	3 credits
CHM 221 Inorganic Chemistry II	3 credits
CHM 222 Elements and Minerals	3 credits
CHM 231 Physical Chemistry II	3 credits
CHM 241 Environmental Chemistry I:	
Atmosphere and Energy	3 credits
CHM 242 Environmental Chemistry II:	
Water and Soil	3 credits
CHM 341 Chemical Spectroscopy	3 credits

9 credits Biochemistry plus appropriate labs

BCH 210 General Biochemistry	3 credits
BCH 311 Proteins	3 credits
BCH 312 Lipids and Bio membranes	3 credits

9 credits Biology plus appropriate labs

BIO 196 Introductory Cellular &	
Molecular Biology	3 credits
BIO 201 Cellular and Molecular Biology	3 credits
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 (48 credits Physics; appropriate labs + 45 credits in Education)

MAJEPH

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 316 Physics and Contemporary Optics	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 196 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)

Minor in Teaching of French as a Second Language / Mineure en enseignement du français, langue seconde (24 credits)

MINTFS

This Minor, a collaboration between the School of Education and Études françaises et québécoises, provides an opportunity for students to observe and study how second languages are learned and taught, with an introduction to linguistics, second language acquisition research, second language pedagogy and French grammar, including the nouvelle grammaire and the nouvelle orthographe. The Minor in the Teaching of French as a Second Language requires the completion of 24 credits. In order to obtain this Minor, the student must have completed at least two courses at French Level 4 or higher (advanced level); for more information, please consult the Études françaises et québécoises section in the Academic calendar.

Cette mineure de 24 crédits, offerte en collaboration avec le School of Education, donne l'occasion aux étudiants d'observer et d'analyser comment les langues secondes sont apprises et enseignées. Les étudiants y reçoivent une formation de base en linguistique, en recherches sur l'acquisition d'une langue seconde, en pédagogie de la langue seconde, et en grammaire française, incluant la nouvelle grammaire et la nouvelle orthographe. Pour obtenir cette mineure, l'étudiant doit avoir complété un minimum de deux cours au niveau 4 ou supérieur en français (niveau avancé; pour plus d'informations, consulter la section Études françaises et québécoises de l'Annuaire universitaire.

Mandatory credits (3)

EDU 213 Didactique du français, langue seconde

9 credits from the courses below:

- EDU 105 Introduction to Linguistics for Language Teaching
- EDU 206 Perspectives on Second Language Acquisition
- EDU 207 Teaching Young Second Language Learner
- EDU 210 Critical Pedagogical Orientation to
Second Language Teaching
- EDU 220 Linguistic Diversity

Plus 12 credits from the following list:

- FRE 140 Grammatical Review (French V)
- FRE 141 Grammatical Review (French VI)

Niveau 4 - Level 4

- FRA 227 Le génie de la langue: Stylistique comparée
du français et de l'anglais
- FRA 309 Assistanat en enseignement du
français langue seconde
- FRA 310 Tutorat au Centre d'aide en français
Or any other Niveau 4 - Level 4 FRA course

Students interested in completing this Minor should contact the School of Education at soe@ubishops.ca for more information. Departmental prerequisites apply.

Les étudiants intéressés par cette mineure doivent contacter le School of Education à l'adresse soe@ubishops.ca. Les prérequis départementaux s'appliquent.

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 + 54 credits in Education) (15 credits Art History, 24 credits Studio Art)

MAJEFI

Required courses:

- FIH 100 The Art of Viewing:
Introduction to Art History.....3 credits
- FIH 102 Survey of Western Art II3 credits
- FIH 220 Twentieth-Century Art to the 1960s.....3 credits
- FIH 221 Art Since the 1960s3 credits
- FIN 301 Art Education: Theory and Practice3 credits

8 courses (24 credits) from at least three of the lists below:

- FIS 160 Drawing I
- FIS 260 Drawing II
- FIS 261 Drawing III
- FIS 300 Drawing IV
- FIS 181 Painting I
- FIS 281 Painting II
- FIS 382 Painting III
- FIS 383 Painting IV
- FIS 170 Sculpture I
- FIS 271 Sculpture II
- FIS 372 Sculpture III
- FIS 373 Sculpture IV
- FIS 140 Foundation Studio
- FIS 175 Introduction to Fibre Art
- FIS 180 Colour: Theory and Practice
- FIS 182 Photography I
- FIS 190 Printmaking I
- FIS 275 Fibre Art II
- FIS 285 Landscape Drawing and Painting II
- FIS 291 Printmaking II
- FIS 296 Photography II
- FIS 302 Photography III
- FIS 384 Photography IV
- FIS 385 Printmaking III

45 credits Major in Secondary Education (see list above)

9 additional credits in Elementary Education (EDU 232, EDU 321, and EDU 335)

B.A. Double Major Drama and Secondary Education (39 credits Drama + 54 credits in Education) MAJEDR

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

**DRA 222 is offered in alternating years*

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 232, EDU 321, and EDU 335)

B.A. Double Major Music and Secondary Education (39 credits Music + 54 credits in Education) MAJEMU

I. Compulsory courses:

Music Theory	15 credits
MUS 131, MUS 132, MUS 231, one of MUS 332, MUS 333, MUS 335, or MUS 337 and MUS 121, MUS 122, MUS 221	
Musical Literature (<i>any two courses</i>)	6 credits
Music History (<i>any course</i>)	3 credits
Two complete years of Ensemble Performance	4 credits
MUS 172 / MUS 173, MUS 272 / MUS 273	
Individual Practical Study	8 credits

II. Music Electives 3 credits

MUS 375 Instrumental Techniques	3 credits
or	
MUS 310 / MUS 311 Conducting	3 credits

45 credits Major in Secondary Education (see list above)

9 additional credits in Elementary Education (EDU 232, EDU 321 and EDU 335)

Students from outside of Quebec are strongly encouraged to take 9 additional credits in Music to complete a 48-credit major.

Bachelor of Education – Secondary Teacher Education (36 credits) CONSEC

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
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 218 History of Education
 EDU 122 Using Technology to Support Learning
 EDU 138 Foundations of the Teaching Profession
 (Elementary)
 EDU 203 Educational Psychology
 EDU 231 Early Childhood Curriculum
 (Preschool-Kindergarten)
 EDU 232 Elementary Curriculum (Cycle 1-3)
 EDU 238 Teaching and Learning at the Elementary Level:
 Practice and Reflection
 EDU 285 The Reading Process
 EDU 305 Social Justice and Anti-Discrimination Education
 EDU 309 Effective Teaching Methods
 EDU 313 Teaching Ethics and Religious Culture
 (Elementary & Secondary)
 EDU 315 Applying the Psychology of Learning and
 Motivation to the Design of Learning Environments
 EDU 321 Methods of Teaching English Language Arts I
 EDU 406 Student Centered Evaluation
 EDU 331 Methods in Teaching Language Arts II
 EDU 334 Methods in the Teaching of Mathematics I
 EDU 335 Methods in the Teaching of Creative Arts –
 Elementary

One of:

- EDU 204 Indigenous Education **OR**
 EDU 205 Education, Colonialism and De-Colonization **OR**
 EDU 211
 Introduction to Young Adult Literature and Texts “Beyond
 the Canon” **OR**
 EDU 212 Mind, Brain, and Education **OR**
 EDU 218 History of Education **OR**
 EDU 220 Linguistic Diversity **OR**
 EDU 303 Sociology of Education **OR**
 SLP 399 Situated Learning and Praxis

Practicum

- EDU 128 Orientation to Professional Practice with co-requisite
 ILT 101 Information Literacy Critical Thinking Lab
(1 credit)
 EDU 100 English Exam for Teacher Certification (EETC) P/F
 EDU 228 Reflective Practicum – Elementary
 with co-requisite EDU 238

OPTION A:

EDU 328 Professional Practice

OPTION B:

Six (6) credits in EDU. **Option B does not allow entry into the Bachelor of Education program and, thus, does not lead to certification.**

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 235 Child Development: Infancy to Middle Childhood

**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
 PHY 111 Physics of Everyday Phenomena
 BIO 193 / BIL 193 Introductory Biology + lab
 CHM 181 The Chemistry of Everyday Life
 BCH 101 Introduction to Nutrition
 CHM 185 The Science of Cooking

One of:

DRA 102, DRA 110, FIS 140, FIS 181, FRA 244, FRA 245, or
 any course in Quebec or French Civilization or Literature from the
 French Department, MUS 110, MUS 111, MUS 130, REL 100 or
 REL 101

Electives:

For Quebec Students..... no elective credits
 For Out of Province students30 credits

Bachelor of Education – Elementary Teacher Education

CONPRI

The required courses for the Bachelor of Education are:

- EDU 401 Quebec Education Policy and Law3 credits
 EDU 403 Readings to Promote
 Educational Thinking.....3 credits
 EDU 407 Individual Differences3 credits
 EDU 419 Interdisciplinary Teaching and Integration of
 Learning at the Elementary Level.....6 credits
 EDU 428 Internship.....15 credits
 EDU 433 Methods in the Teaching of
 Elementary Social Science.....3 credits
 EDU 434 Methods for Scientific Inquiry
 and Problem Solving.....3 credits

For a total of 36 credits

List of Courses

EDU 102 Philosophy of Education 3-3-0

The course will focus upon philosophical 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 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.

EDU 122 Using Technology to Support Learning 3-3-0

This course will focus on using technology to support teaching and learning processes. By studying the foundations of educational technology, pre-service teachers will develop an understanding of the role of technologies can play to improve education. They will explore the role of the educator in technology-facilitated learning environments. They will build skills in designing technology-based learning environments to support meaningful learning.

ILT 101 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 128 / EDU 129, "Orientation to Professional Practice", students retrieve the resources necessary to complete their assignments for the course. ILT 101 is a required core course.

EDU 128/129 Orientation 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

EDU 138 Foundations of the Teaching Profession (Elementary) 3-3-0

In this course students will explore and make use of current research on the teaching, learning and evaluation processes. Students will also learn how to apply education policy and curriculum program documents in their planning and teaching. Students will continue the identification process with the teaching profession begun in their first field placement.

EDU 139 Foundations of the Teaching Profession (Secondary) 3-3-0

In this course students will explore and make use of current research on the teaching, learning and evaluation processes. Students will also learn how to apply education policy and curriculum program documents in their planning and teaching. Students will continue the identification process with the teaching profession begun in their first field placement.

EDU 203 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 130 and EDU 128 or EDU 129 are prerequisites or corequisites if student is also enrolled in EDU 227, EDU 228 or EDU 229

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 206 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 207 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. Should be taken in the first year of study.

EDU 208 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 209 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. This course should not be taken in the first year of your program.

EDU 211 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 212 Mind, Brain and Education 3-3-0

An individual's brain and cognitive development are shaped by his or her learning experiences and environment - in other words, education changes the brain. This course will review recent research from neuroscience and psychology to discuss how such studies can be useful to education, and how insights from education can in turn inform these disciplines. It will investigate the different histories, philosophies, and epistemological lenses through which common problems in neuroscience, psychology, and education are approached. Students will gain awareness and understanding of the complexity of issues and theories within the discipline of neuroeducation and the methods and models associated with it, and will identify questions from education that remain unanswered in the context of educational neuroscience and propose methods of addressing these questions. Topics such as bilingualism, reading and language, literacy, numeracy and arithmetic, cognitive control, emotion, and creativity will be addressed.

- EDU 213 Didactique du français langue seconde 3-3-0**
Through this course, students will examine the issues related to the development of competency in French as a second language and understand the contexts in which French is taught as a second language in Canada. Attention will be paid to particular pedagogical approaches related to the teaching of French as a second language. This course will be offered in French.
- EDU 218 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 220 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 231 Early Childhood Curriculum (Preschool - Kindergarten) 3-3-0**
Preschool, Kindergarten and Cycle One mark a significant period in young learners where ongoing development is nurtured so that children can achieve their full potential. This course will offer a thorough introduction to theoretical and applied aspects of early childhood education where students will be expected to reflect critically on their teaching philosophy and practice with the youngest learners in our schools. With particular attention given to the Quebec Education Program, they will explore appropriate and stimulating learning environments, planning and implementation of learning centers, play based curriculum and instruction, teaching the “whole” child, the educational and developmental needs of young children and other current issues in early childhood education.
Pre-requisite: EDU 130
- EDU 232 Elementary Curriculum (Cycle 1-3) 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 Cycle One to Three classrooms. 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, 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.
Pre-requisite: EDU 130
- EDU 238 Teaching and Learning at the Elementary Level: Practice and Reflection 3-3-0**
In this course students will learn to apply current research on the Elementary teaching, learning and evaluation processes to designs for learning. Students will learn about Quebec curriculum-related documents; they will deepen their understanding of the application of education policy and curriculum program documents to their planning process. Students will document the development of their professional identity.
Pre-requisite: EDU 130 Foundations of the Teaching Profession
- EDU 239 Teaching and Learning at the Secondary Level: Practice and Reflection 3-3-0**
In this course students will learn to apply current research on the Secondary teaching, learning and evaluation processes to designs for learning. Students will learn about Quebec curriculum-related documents; they will deepen their understanding of the application of education policy and curriculum program documents to their planning process. Students will document the development of their professional identity. It is a co-requisite for the second year practicum course taken by all Secondary candidates in their second year.
Pre-requisite: EDU 130 Foundations of the Teaching Profession
- EDU 275 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 285 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 303 / SOC 299 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 305 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.
Pre-requisite: EDU 238 or EDU 239 or permission of instructor
- EDU 307 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.
Pre-requisites: 100 level English course or ENG 210 or EDU 211
- EDU 308 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 a significant component of the course.
- EDU 309 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 129 and EDU 229 or EDU 128 and EDU 228. Third-year standing or permission of the school.
- EDU 313 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 315 Applying the Psychology of Learning and Motivation to the Design of Learning Environments 3-3-0

This course will assist pre-service teachers to apply the psychology of learning and motivation to the design of learning environments. In this course pre-service teachers will deepen their comprehension of learning environments that foster learning and motivation. They will explore different approaches to organizing schools and classrooms based on supporting student's engagement within an inclusive learning community. They will study motivational theories and how to improve student motivation in relation to the design of learning and evaluation situations.

Prerequisite: EDU 203

EDU 321 Methods in the Teaching of Language Arts I (Elementary) 3-3-0

This course introduces pre-service teachers to literacy-related concepts, competencies and instructional and assessment approaches, the role of Language Arts in helping learners develop a critical understanding of the world, trends in literacies research, and related Quebec program documents. Pre-service teachers will begin to plan and design learning that fosters students' literacy and the development of their language arts and competencies.

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 330 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 331 Methods in the Teaching of Language Arts II 3-3-0

This course will allow pre-service teachers to deepen their knowledge and application of literacy-related instructional approaches. It prepares the candidates to plan and design learning that leads students to work critically with all kinds of print, digital texts and multi-modal sources, contributing to the development of their language arts competencies. Pre-service teachers will explore: the role of Language Arts in helping learners develop a critical understanding of the world, how to apply literacy practices in the classroom (including new literacies, multiliteracies, critical literacies, and so on) to support examination of concepts across the curriculum, and application of new trends and appropriate assessment tools relevant to literacy practices across subject areas.

Pre or Co-requisite EDU 321.

EDU 334 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 335 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 401 Quebec Education Policy and Law 3-3-0

Students will have an opportunity to study the development of the Quebec education system from historical, political, and legal perspectives. 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 Quebec Education Act will be examined in the course.

EDU 403 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 406 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 407 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 411 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 414 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 415 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 418 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.

EDU 433 Methods in the Teaching of Elementary Social Sciences**3-3-0**

This course will prepare pre-service teachers with the understandings, skills, and methods to support their learners’ social science curriculum competencies, and support their evolving world view. Pre-service teachers will explore the role of social sciences in helping learners develop a critical understanding of the Canadian history and environment; this includes specific attention to FNIM issues and perspectives. The course also addresses relevant assessment tools and practices.

EDU 434 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 227, EDU 228, EDU 229, EDU 328, EDU 329, EDU 428 and EDU 429, take place in assigned educational settings:

EDU 227 Alternate Practicum II**3-3-0**

This second-year field experience in the elementary or secondary school setting, involves a combination of half and full days over the Fall semester of a minimum of 70 hours. Students begin to integrate theory. Students begin to integrate theory from courses with field-based practice and carry out aspects of the teaching act in collaboration with associate teachers and university supervisors. They participate in the life of the school inside and outside the classroom. In extenuating circumstances, with the permission of the Department Chair.

EDU 228 Practicum II - Elementary**3-3-0**

This second-year field experience in the elementary school setting involves a combination of half and full days over the Fall and Winter semester of a minimum of 70 hours. Students begin to integrate theory from courses with field-based practice and carry out aspects of the teaching act in collaboration with associate teachers and university supervisors. They participate in the life of the school inside and outside the classroom.

EDU 229 Practicum II - Secondary**3-3-0**

This second-year field experience in the secondary school setting involves a combination of half and full days over the Fall and Winter semester of a minimum of 70 hours. Students begin to integrate theory from courses with field-based practice and carry out aspects of the teaching act in collaboration with associate teachers and university supervisors. They participate in the life of the school inside and outside the classroom.

EDU 328 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.

EDU 329 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.

EDU 428 Internship – Elementary**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 429 Internship- Secondary**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.

Division of Humanities

Overview

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 enrol 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.** CLA 112 and 113 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.

Art History

Faculty

Claude Lacroix,

B.F.A (Ottawa), M.A. (Montreal), Ph.D.
(École des hautes études en sciences sociales);
Associate Professor, Chair of the Fine Arts
History and Theory Program

Program Overview

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 artifacts 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 analyzed 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.

Programs and Requirements

The Art History Program offers Minor, Major and Honours Programs:

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 cognate courses depending on each of the three programs below.

Honours in Art History and Theory (60 credits)

HONFIH

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 and FIN). Students can apply to the Honours Program any time 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 Neoclassicism

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 chairperson

18 credits in studio arts (FIS and FIN)

Suggested course of study:

Year one:

FIH 100, FIH 102, and two 200-level FIH or electives courses (FIN or cognates)

Two FIS courses

Year two:

Five FIH and electives courses (FIN or cognates) with a minimum of one FIH 300-level course

Two FIS courses

Year three:

Five FIH and electives courses (FIN or cognates) with a minimum of two FIH 300-level courses

One FIS course

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) MAJFIH

Students enrolled in the Major in Fine Arts with a Concentration in Art History and Theory must successfully complete 48 credits comprising at least 27 credits (9 courses) in art history courses (FIH), 15 credits (5 courses) in FIS and FIN 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 Neoclassicism
- 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 chairperson
- 15 credits in studio arts (FIS and FIN)

Suggested course of study:

Year one:

- FIH 100, FIH 102, and one 200-level FIH course
- Two FIS courses

Year two:

- two 200-level art history courses
- one elective FIH, FIN or cognate course
- one or two 300-level art history course
- Two FIS courses

Year three:

- one 200-level art history course
- one elective FIH, FIN or cognate course
- one or two 300-level art history courses
- one FIS course

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.

Minor in Art History and Theory (24 credits) MINFIH

The Art History and Theory Minor is for students in any discipline who, in addition to their major concentration, wish to develop a secondary area of expertise in art history. The Minor allows students to sample from the courses offered through the Art History Program: introductory, period-based, thematic, and advanced courses. Students must complete any 24 credits (8 courses) of their choice in Art History (FIH) or cross-listed course (FIN 235, FIN 292 and FIN 388), including a minimum of 6 credits at the 300 level.

List of Courses

Introduction Courses (100-level courses)

NB: FIH 100 and FIH 102 requirements are offered every year.

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 101 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.

FIH 102 Survey of Western Art II: Renaissance to Neoclassicism 3-3-0

This course explores the classical tradition and its developments in painting, sculpture and architecture from the co-called rebirth of Greco-Roman Antiquity in the early 15th century to the revival of classicism in the mid-18th century. Religious and secular key works from the Renaissance, Mannerism, Baroque, Rococo and Neoclassicism are studied in the changing social, cultural and political contexts of their production, such as humanism, the Reformation and Counter-Reformation, the academy, absolute monarchies, and the Enlightenment.

Intermediate Period-Based Courses (200-level courses)

FIH 219 Neoclassicism to Post-Impressionism 3-3-0

This course examines major developments in painting, sculpture and photography. Neoclassicism, Romanticism, Orientalism, Realism, Impressionism, Post-Impressionism and Symbolism are considered within the broad cultural context of their production, display and reception. The effects of the tumultuous political circumstances of social unrest and the Industrial Revolution will be observed from the mid-19th to the mid-19th century, when art emerged as a politically-engaged, publicly-oriented force, until the end of the century, when artists retreated to a private, subjective realm.

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.

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.

Prerequisite: FIH 100 or FIH 102 or consent of instructor

Intermediate Thematic Courses (200-level courses)

FIH 225 Special Topic in Canadian Art 3-3-0

This course deals with aspects, issues or themes 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.

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 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 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. Such as: Art and Technology; Philosophy and Criticism of Art; Women and Art; Gender Issues in the Visual Arts; and Art and Politics. Specific topic to be posted in advance of registration.

Advanced Courses (300-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 Art History and Theory 3-3-0

This course will address an aspect, issue or theme in art from a multidisciplinary approach to a specific medium or time period ranging from the antiquity to the present, or across time, artistic styles and movements. Possible topics include: Issues in Sculpture, Performance or Video Art; The Body in Art; Art, Scandal and Censorship.

Prerequisite: FIH 100, FIH 102, and two FIH 200-level courses

FIH 323 Seminar in Art History, Theory and Criticism of Art 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 350 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 351 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 235 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 100 or FIH 102 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 298 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: FIH 100 or FIH 102 or consent of instructor

Cognate Courses

Credited for Art History Concentration and Honours

AAD 250 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 251 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 250 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

CLA 110 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 205 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 206 / REL 203 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 207 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 208 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 238 / REL 238 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.

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.

PHI 346 Topics in 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.

Arts Administration

Faculty

Jack D. Eby,
B.Mus. (Brit. Col.), M.A. (Western),
Ph.D. (King's College, London); Professor
Chair of the Program

Program Overview:

Students are admitted to a Humanities Divisional Major in Arts Administration (MAJDHA). This 75-credit interdisciplinary program combines the study of business, creative arts, and public culture and arts administration. The goal is 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 Arts Administration, Business and one of the Arts concentrations (Drama, Fine Arts, Film Studies, Music, Public History). As they proceed through the program, they will enrol in two practicum courses: AAD 253 (Internal Practicum), where they will be placed with an on-campus organization (Centennial Theatre, Foreman Art Gallery, Musique Chez Nous, Drama department, etc.) for their first work experience; and nearer to graduation AAD 353 (External Practicum), in an off-campus cultural venue consistent with their disciplinary focus.

Students should identify which of the concentrations they wish to follow at the time of application to the program. Please consult the Chair of the Arts Administration Program for advice concerning program requirements. The two practicum courses will be arranged by the professor of the Arts Administration courses, along with representatives of the different concentrations.

Students are permitted to register in a program that combines Arts Administration and a Major in their Arts concentration (i.e. 42 or 48 credits instead of 30). Those in 120-credit degrees are strongly encouraged to do so, or to pursue a minor (24 credits) in a second Arts discipline. Concentration courses may be double-counted towards the Major.

The double-degree option is also an attractive option. For this program, a B.A. with a major in the Arts discipline is required. This option requires a full year in Arts before it can be declared.

Students following an Arts Administration program are not eligible to add a Business program.

Required courses:

Arts Administration (15 credits)

These three specialized courses, along with the two practicum experiences, will provide students with specific knowledge of arts administration as well as hands-on experience.

AAD 150 Introduction and 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.
Students who have completed AAD 250 may not take AAD 150

AAD 200 Arts Administration Special Topic 3-3-0

This will be a lecture course offered by different professionals in the field on topics not covered in the regular Arts Administration courses. The course will be taught on an occasional basis.

AAD 251 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 250 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 253 Arts Administration – Internal Practicum 3-1-10

This course is to provide students with administrative experience working with real-life artistic and cultural organizations, on the Bishop's campus. It will be supervised by the faculty member who runs the organization. This course can be taken any time after the completion of **AAD 150**, and must be completed before taking **AAD 353**.

Prerequisites: AAD 150

AAD 300 Independent Study 3-1-0

An individual project on a subject approved by a Faculty member from the program.

AAD 353 Arts Administration: External 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. This course should be taken before the final semester.

Prerequisites: AAD 250, AAD 251, AAD 252

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. For assistance in registering in Business courses, please contact the Department Chair of the Williams School of Business.

BAC 121	Purposes of Accounting
BFN 100	Basic Finance
BHR 221	Organizational Behaviour
BHR 224	Human Resource Management
BMG 100	Understanding Business and Society
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

In terms of when to take these courses, the following sequence is recommended:

First-year:	ECO 102 – ECO 103 – BAC 121- BMG 100 – BMK 211
Subsequent:	BFN 100 (after ECO 103 and BAC 121) BHR 221 – BMG 215 – BMK 214 (after BMG 100 and BMK 211) BHR 224 (after BHR 221)

**Concentrations:
Drama, Fine Arts, Film Studies,
Music or Public History**

Full descriptions of these courses can be found in the calendar sections of the departments. A Concentration in one of these departments will ensure that students gain a solid grounding in one of the creative arts. Inquiries regarding prerequisites or any problems concerning the lists below should be addressed to the Chair of the appropriate Department.

Drama (30 credits)**MAJAAD**

(all of the following)

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
DRA 222	Introduction to Shakespeare
DRA 246	Directing I

One (3-credit) course from:

DRA 211, DRA 212 or DRA 230

One course (3 credits) chosen from:

DRA 250	Intermediate Technical Theatre Stagecraft
DRA 251	Lighting Design
DRA 370	Independent Study Special Project

One other course (3 credits) in Drama

Fine Arts (30 credits)**MAJAAF****Fine Arts History Courses (21 credits)**

FIH 100	The Art of Viewing: Introduction to Art History
FIH 102	Survey of Western Art II: Renaissance to Neoclassicism

Any 15 credits selected from:

FIH 220	Twentieth Century Art to the Sixties
FIH 221	Art since the 1960s
FIH 225	Special Topic in Canadian Art
FIH 230	History and Theories of Photography
FIH 240	Art, Popular and Mass Culture
FIH 246	Public Art and Monuments
FIH 260	Art and Nature: From Landscape to Environmental and Ecological Art
FIH 290	Current Topics in Art History
FIH 314	Colonial and Postcolonial Issues in the Visual Arts (<i>Prerequisite</i>)
FIH 318	Current Art Practices and Production (<i>Prerequisite</i>)
FIH 320	Special Topic in Art History and Theory (<i>Prerequisite</i>)
FIH 323	Seminar in Art History, Theory and Criticism of Art (<i>Prerequisite</i>)
FIN 235	Museology (<i>Prerequisite or consent from the instructor</i>)
FIN 292	Sociology of Art

FIN 388 Museums and Communities
(Prerequisite or consent from the instructor)

Fine Arts Studio Courses (9 credits):

One course each in Drawing, Painting, and Sculpture

Film Studies (30 credits)

MAJAAI

ENG 102 Approaches to Media Studies
ENG 170 Introduction to Film Studies
ENG 279 Film History to 1939
ENG 280 Film History after 1939

At least one course chosen from:

ENG 281 Canadian Cinema
FRA 259 Québec Cinema

At least one course chosen from:

ENG 382 Screen writing
ENG 383 Digital Filmmaking
ENG 384 Documentary Filmmaking

Additional credits, for a total of 30 chosen from:

CLA 150 The Ancient World in Film and Television
ENG 124 The Graphic Novel
ENG 217 The Arthurian Tradition
ENG 218 The Gothic Tradition
ENG 236 Popular Culture
ENG 278 Science Fiction in Literature and Film
ENG 282 Film Adaptation
ENG 283 Documentary Film
ENG 284 Film Noir
ENG 288 Crime Pays: The Gangster Film Genre
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 350 Ghosts in the Machine: Technology, Media & Literature in Victorian England
ENG 381 The Evolution of the Fairy Tale in Literature and Film
ENG 463 Senior Seminar: Screen Writing
FIH 230 History and Theories of Photography
FIH 240 Art, Popular and Mass Culture
FRA 250 French Cinema
GER 270 Introduction to German Film
GER 271 Rebels with a Cause: East German Cinema
HIS 332 The Celluloid Republic
ITA 309 Italian Cinema and Society
ITA 310 Italian Cinema and Society II
MUS 115 Music for the Movies I
MUS 116 Music for the Movies II
PHI 345 Topics in Philosophy of 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

Music (30 credits)

MAJAAM

Music History and/or Literature 12 credits
Music Theory 9 credits
Ensemble Courses 2 credits
Practical Study 4 credits
Music Electives 3 credits

Public History (31 credits)

MAJAAH

HIS 101 History Methods Lab

Two other 100-level courses

HIS 200 Historical Methods and Theories
HIS 240 History and Heritage
HIS 391 History Internship (equivalent to AAD 353)
HIS 396 Public History

Three courses chosen from:

HIS 227 The Stuff of History:
An introduction to Material Culture*
HIS 228 Witnessing Atrocities: Truth and
Reconciliation in a Global Context**
HIS 229 Human Rights and Humanitarian Organiza-
tions
HIS 236 Public Art and Monuments
HIS 239 History and the Archives
HIS 275 Digital History***
HIS 298 Museums and Communities
CLA 240 Signs of the Past: Archaeological Interpretation
HIS 392 Research Internship

One other 300-level courses

Certificate in Arts Management (30 credits)

CONAMG

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.

I. Required courses 18 credits:

1. 3 courses in Business Administration (9 credits)

BMG 100	Understanding Business and Society	3-3-0
BMK 211	Marketing Management	3-3-0
BAC 121	Purposes of Accounting	3-3-0

2. A minimum of 3 courses in Arts Administration

(9 or 12 credits)

AAD 250	Arts Administration I: The External and Legal Environment	3-3-0
AAD 251	Arts Administration II: Internal Operations	3-3-0
AAD 252	Arts Administration III: Communications and Marketing	3-3-0
AAD 353	Arts Administration - External 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 101	Introduction to Technical Theatre	3-3-3
DRA 102	Introduction to Theatre	3-3-0
DRA 201	Contemporary Canadian Drama	3-3-0

And any other course in dramatic literature.

FINE ARTS: (9 or 12 credits)

FIH 100	The Art of Viewing: Introduction to Art History
FIH 102	Survey of Western Art II: Renaissance to Neoclassicism
FIH 220	Twentieth Century Art to the Sixties
FIH 221	Art since the 1960s
FIH 225	Special Topic in Canadian Art
FIH 230	History and Theories of Photography (No prerequisite)
FIH 240	Art, Popular and Mass Culture (No prerequisite)
FIH 246	Public Art and Monuments
FIH 260	Art and Nature: From Landscape to Environmental and Ecological Art
FIN 235	Museology (Prerequisite or consent from the instructor)
FIN 292	Sociology of Art
FIN 388	Museums and Communities (Prerequisite or consent from the instructor)

MUSIC:

MUS 130	Rudiments of Music Theory	3-3-0
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Any three Music Literature courses, in consultation with the Chair of Music.

Classical Studies

Faculty

Jenn Cianca,

B.A. (Bishop's), M.A., Ph.D. (Toronto); Associate Professor
Chair of the Department

David Seale,

B.A. (Queen Mary College), M.A. (McMaster), Ph.D. (London); Professor

Catherine Tracy,

B.A. (Dalhousie, University of New Brunswick), M.A. (Dalhousie),
Ph.D. (Southern California), Associate Professor

Program Overview

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.

Programs

Honours in Classical Studies (60 credits)

HONCLA

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)

MAJCLA

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)

MINCLA

Minor in Classical Languages (24 credits)MINCLL

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)

MINCAA

Requirements:

Two of: CLA 107, CLA 120, CLA 238, CLA 240 and CLA 241;
Three of: CLA 110, CLA 205, CLA 206, CLA 207, CLA 208; One
of: CLA 328, CLA 335, CLA 350, CLA 365, CLA 366; Any two
other CLA, LAT, or GRE courses.

Minor in Ancient History (24 credits + 1 lab credit)

MINCLH

Requirements:

Either [LAT 101 or GRE 101]; four of: [CLA 120, CLA 127,
CLA 160, CLA 210, CLA 261, CLA 320, CLA 328, CLA 360]*;
HIS 110, one of: [HIS 200 and HIS 372], and ILT 102

*At least one of the CLA courses must be a 300-level course.

List of Courses

CLA 100 Food, Community and Culture in the Greek and Roman World 3-3-0

The aim of this course is to introduce students to the cultures 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 101 Travellers, Tourists, and Foreign Wars: Getting About in the Ancient Mediterranean World 3-3-0

Odysseus' 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 110 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 112 / REL 120 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 113 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 120 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 to a study of the techniques of modern field archaeology.

CLA 127 Ancient Greece: 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 130 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 150 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 160 Rome: 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.

Students cannot get credit for both CLA 160 and CLA 260, except to replace the earlier grade.

CLA 170 Greek and Latin Terminology for Medicine and the Life Sciences 3-3-0

This course teaches the Latin and Greek roots of scientific terminology in order to help students understand the technical vocabulary of medicine, biology, and other life sciences. Better understanding of the scientific terms also improves students ability to communicate with specialists and with the general public.

CLA 204 / REL 204 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 205 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 206 REL 203 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 illumination, textiles and decorative arts.

Open to first-year students.

CLA 207 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 208 Art and Architecture of Imperial Rome 3-3-0

A survey of Roman art and architecture from the first century CE to the fourth century CE. 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 210 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 219 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 220 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 223 /**POL 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 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.

CLA 236 /**REL 236 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 100 or REL 101 or permission of instructor

Open to first-year students.

CLA 238 / FIH 238 /**REL 238 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, and is 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 240 Signs of the Past:**Archaeological Interpretation 3-3-0**

A continuation of CLA 120 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.

Open to first-year students.

CLA 250 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 261 Rome: The Emperors 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 271 / PHI 271 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 272 / PHI 272 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 280 / REL 280 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 prophecy, festivals, and Roman responses to the introduction of foreign religions.

Open to first-year students

CLA 320 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 primary sources (in translation) as well as modern scholarship.

Prerequisite: a previous Classics course or permission of the instructor

CLA 321 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 325 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 332 /**REL 332 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.

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 336 Barbarians of the Roman World 3-3-0
Rome was a little village that began conquering its neighbours until it ended up dominating a vast empire. This seminar course will examine the peoples who fought against Rome: how some resisted, how others submitted and collaborated with the Romans, and how Romans viewed the non-Romans that lived within and outside their empire.

Prerequisite: At least two Classics courses or permission of the instructor

CLA 350/REL 350 The Goddess: History, Cult and Myth 3-3-0
From Diana's bow to Athena's shield, from the fearsome wail of the Erinyes to the dulcet tones of the Muses, the sacred feminine in all its manifestations has fueled the imagination. How we in the modern world perceive the female divine, however, also reflects our own changing attitudes towards women. In this seminar course, we will examine the sacred feminine in art, archaeology, and literature, from Paleolithic Europe to contemporary America, with a view to understanding the construction of tropes of femininity both in ancient cultures and our own. Topics may include Near Eastern and Graeco-Roman goddesses, Hindu goddesses, gendered archaeology, the virgin Mary, modern goddess movements, and more!

Prerequisite: At least two Classics courses or permission of the instructor

CLA 380 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 400 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. Students must achieve a 70% or higher in order to register in CLA 401.

CLA 401 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 400

Independent Studies

The department offers opportunities to study independently for senior students who wish to pursue in-depth exploration of their research interests, under the direction of faculty members. Independent studies are available in all areas covered by the department, including upper-level or advanced Classical language study (Greek and Latin), history, and archaeology. Students wishing to undertake an independent study must secure permission of the instructor.

Classical Languages

GRE 101F Beginners' Greek 6-3-0
Introducing the ancient Greek language to the beginning student.

GRE 200 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 201 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 202 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 300 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 301 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 302 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 401 Advanced Greek III 3-3-0
Selections from Greek authors.

Prerequisite: three years of Ancient Greek

GRE 402 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 200 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 201 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 202 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 300 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 301 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 302 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 401 Advanced Latin III 3-3-0
Selections from Roman authors.

Prerequisite: three years of Latin

LAT 402 Advanced Latin IV 3-3-0
Selections from Roman authors.

Prerequisite: three years of Latin

Independent Studies in Classical Languages

The department wants to facilitate language study, and therefore offers independent study courses in Greek and Latin for dedicated students who are unable to take the regularly scheduled language classes. Students wishing to undertake an independent study in Greek or Latin must secure permission of the instructor.

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, CLA 350 in Gender, Diversity, and Equity Studies

CLA 110, CLA 113 in Religion

Drama

Faculty

Rebecca Harries,

B.A. (Bishop's), M.A., Ph.D. (Toronto);
Associate Professor

George Rideout,

B.A. (Toronto), M.A. (Simon Fraser);
Professor
Chair of the Department

Program Overview

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 (39 credits)

MAJEDR

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.

Honours in Drama

HONDRA

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 enrol 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.*

Major in Drama (48 credits) MAJDRA

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 (6 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 Criticism

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 (12 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 / ENG 170) Introduction to Film, (DRA 271) Modern Drama, (DRA 273) Women Dramatists [or a cognate course]

One of (DRA 246) Introduction to Directing, DRA 281 Playwriting I

Drama Electives (9 credits)

Three of all other drama courses (except independent studies)

Students must also complete any Divisional Requirements of the Division of Humanities.

Minor in Drama (24 credits) MINDRA

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

List of Courses

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 102 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 110 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.

DRA 201 Contemporary Canadian Drama 3-3-0

Canadian drama from 1967 on, including the plays of Tremblay, French, Walker, Thompson and others.

DRA 202 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 203 Contemporary European Drama 3-3-0

European drama since 1960 through examination of works of influential playwrights and dramatic theorists.

DRA 211 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 212 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 222 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.

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 271 Modern Drama 3-3-0

The major European drama and movements of the period from 1875-1939, including the works of Ibsen, Strindberg, Chekhov, among others.

DRA 273 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.

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 300 Contemporary Theatre Practice 3-3-0

Critical discussion, analysis, and research of contemporary theatre practice.

DRA 301 Contemporary Dramatic Theory 3-3-0

Critical discussion, analysis, and research of the major critical theorists and writings of the past twenty five years.

DRA 302 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.

DRA 315 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 322 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/ ENG 170 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.

CLA 219 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 220 The Greek Tragic Theatre II 3-3-0**
Study of the later works of Sophocles and representative works of Euripides. (In translation)
- ENG 334 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.
- FRA 283 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.
- FRA 261 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.

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 enrolment may be limited.

Acting

- DRA 131 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.
- DRA 132 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
- DRA 136 / FRA 136 Techniques de Jeu I 3-3-0**
Introduction aux techniques d'interprétation d'art dramatique à partir de textes, et d'études des bases de la performance scénique. Travail en équipe sur des scènes tirées d'œuvres théâtrales modernes et contemporaines.
- DRA 233 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
- DRA 234 Acting IV 3-3-5**
Scene study and collective creation: analysis, rehearsal techniques and final presentation in Studio Theatre.
Prerequisite: DRA 233
- DRA 237 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 233 or permission of the Department
- DRA 334 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 233
- 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 233 or permission of the instructor
- DRA 440 Scene Study II - Shakespeare 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 the Shakespeare canon. In addition, we will explore one text on acting theory that addresses Shakespearean verse.
Prerequisite: DRA 233 or permission of the instructor

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 246 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: No prerequisites required
- DRA 247 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

Playwriting

Six credits of playwriting are offered. Student written plays are produced in New Plays Festival, and Theatre Activ. Enrolment is limited but a few places are open to non-Drama students.

- DRA 281 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.
- DRA 282 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 281 or permission of the instructor

Technical Theatre

DRA 101 is open to all students interested in theatre production. Enrolment in subsequent technical courses is limited.

- DRA 101 Introduction to Technical Theatre 3-3-3**
An introduction to the elements, processes, and systems of the stage environment through lectures and group tutorials.
- DRA 250 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
- DRA 251 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

Design

Six introductory credits are offered in set and costume design. The two courses are offered in alternate years. Enrolment is limited. These courses are cognate courses and open to Fine Arts students.

- DRA 161 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 162 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 331 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

DRA 341 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 332 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

DRA 342 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.)

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 310 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

DRA 337 Independent Study: Performance I 3-0-5

Advanced work in major role in faculty directed show.

Prerequisite: DRA 331

DRA 339 Independent Study: Performance II 3-0-5

Advanced work in major role in faculty directed show.

Prerequisite: DRA 234, DRA 237, DRA 331

DRA 350 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

DRA 351 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

DRA 352 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

DRA 363 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

DRA 365 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

DRA 370 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

DRA 380 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

English

Faculty

Gregory Brophy,

B.A. (Trent), B.Ed. (Queen's), M.A. (Western), Ph.D. (Western); Associate Professor
Chair of the Department

Claire Grogan,

B.A., M.A. (Oxon), P.G.C.E. (Oxon),
Ph.D. (Calgary); Professor,

Shawn Malley,

B.A., M.A. (UNB), Ph.D. (UBC); Professor

Linda Morra,

B.A. (Toronto), M.A., Ph.D. (Ottawa),
Professor

Jessica Riddell,

B.A. (St. Mary's), M.A., Ph.D. (Queen's);
Associate Professor

Steven Woodward,

B.A. (Queen's), B.A.A. (Ryerson), M.A., Ph.D. (Toronto), Professor

Program Overview

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.

Foundation Year

The three Foundation Year courses taken by all English Majors and Honours students are:

ENG 100, "Introduction to English Studies"; 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 101 for Literature Concentration; ENG 102 for Film and Media Studies Concentration

Honours in Literature (60 credits)

HONENL

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); the Core course, ENG 215, "Introduction to North American Literatures" (3 credits); and at least 30 credits from the Areas of Specialization. Of these 30 credits in the Areas of Specialization, twelve credits (4 courses) must be selected from Group A, twelve credits (4 courses) from Group B, and six credits (2 courses) from Group C.

Areas of Specialization

Group A:

Old English and Middle English: 310, 311, 314, 315, 316
Sixteenth and Seventeenth Century: 223, 224, 225, 320, 321, 325, DRA 222

Eighteenth Century: 332, 333, 390

Romantic: 295, 342, 347, 348

Group B:

Victorian: 254, 255, 350, 351

Twentieth-Century British: 250, 251, 360, 361

Canadian: 252, 253, 275, 352, 358, 359

American: 256, 257, 353, 356, 357

Group C:

Postcolonial: 228, 358, 375

Critical Theory: 202, 233, 234, 236, 239

At least **Four** of the courses in the Areas of Specialization must be **300- or 400-level** seminars. Students are strongly encouraged to take courses from all ten areas, and are required to take at least three of the areas in both Group A and Group B.

In addition, students must complete three elective English courses (9 credits), and either two additional courses from the 200 or 300 level (6 credits) or ENG 471 and ENG 472 in their stead.

Majors and honours students in English must satisfy the Humanities Divisional requirements outlined at the beginning of the Humanities section of this calendar. Students with program combinations which require more than 72 credits are exempt from this requirement.

Honours in Film and Media Studies (60 credits)

HONENF

The Honours in Film and Media 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 and Media, including the Foundation year courses (12 credits); Core Courses (12 credits); seven Core Elective courses in Film and Media Studies (21 credits); three elective courses in English (9 credits), and either two additional English at the 200 or 300 level (6 credits), or the Honours Thesis (ENG 471 and ENG 472).

Four Foundation Year Courses: (12 credits): ENG 100, ENG102, ENG 112, ENG 113.

Four Core Courses: (12 credits): ENG/DRA 170, ENG 279 (formerly ENG 289), ENG 280; at least One of ENG 287, or ENG 291.

Seven Core Electives (21 credits): CDC 100, CLA 150, ENG 124 (formerly ENG 219), ENG 217, ENG 218, ENG 236, ENG 278, ENG 281, ENG 282, ENG 283, ENG 284, ENG 287, ENG 288, ENG 291, ENG 293, ENG 294, ENG 295, ENG 297, ENG 298, ENG 350, ENG 381, ENG 382, ENG 383, ENG 384, ENG 463, FIH 230, FIH 240, FRA 250, FRA 259, GER 370, GER 371, ITA 309, ITA 310, MUS 115 (formerly MUS 102), MUS 116, PHI 345, REL 237, SOC 105, SOC 241, SPA 318, SPA 333.

Five English Electives (15 credits): Students have the option to complete the English Honours Essay (ENG 471 and ENG 472) as part of this requirement.

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 Literature program and the Major Concentration 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 these programs.

English Major

1) Literature Concentration (48 credits)

MAJENL

Students in the English Major, Literature Concentration, take at least 48 credits in English, including the Foundation year courses ENG 100, ENG 101, ENG 112, ENG 113 (12 credits); the Core course, ENG 215, “North American Literatures” (3 credits); at least three courses in English Literature before 1900 (9 credits); and eight English electives (24 credits).

2) Film and Media Studies Concentration (48 credits)

MAJENF

Students in the English Major, Film and Media Studies Concentration, take at least 48 credits in English, including the Foundation year courses ENG 100, ENG 102, ENG 112, ENG 113 (12 credits);

ENG/DRA 170 “Intro to Film” (3 credits);

at least two Core Courses (6 credits) from ENG 279, ENG 280, ENG 287, ENG 291;

five Core Electives (15 credits) chosen from CDC 100, CLA 150, ENG 124 (formerly ENG 219), ENG 217, ENG 218, ENG 236, ENG 278, ENG 279 (formerly ENG 289), ENG 280, ENG 281,

ENG 282, ENG 283, ENG 284, ENG 287, ENG 288, ENG 291, ENG 293, ENG 294, ENG 295, ENG 297, ENG 298, ENG 350, ENG 381, ENG 382, ENG 383, ENG 384, ENG 463, FIH 230, FIH 240, FRA 250, FRA 259, GER 370, GER 371, ITA 309, ITA 310, MUS 115 (formerly MUS 102), MUS 116, PHI 345, REL 237, SOC 105, SOC 241, SPA 318, SPA 333; and four English Electives (12 credits).

3) Double Major: Secondary Education and English (48 credits in English + 45 credits in Education)

MAJEEN

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.

Minors (24 credits)

MINENG
MINENF

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 four different minors:

The **English 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 and Media Studies 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 class room (Nicolls 4), which is equipped with excellent projection and sound equipment, as well as cinema seating. The Film and Media Studies Minor requires the completion of 24 credits in the following manner:

Four Core Requirements (12 credits) composed of ENG/DRA 170 and at least three courses from ENG 102, ENG 279, ENG 280, ENG 287, ENG 291.

Four Core Electives (12 credits) chosen from the following list:

CDC 100	Introduction to Communications: Theory and Practice
CLA 150	The Ancient World in Film and Television
ENG 102	Approaches to Media Studies
ENG 124	Introduction to the Graphic Novel (formerly ENG 219)
ENG 217	The Arthurian Tradition
ENG 218	The Gothic Tradition
ENG 236	Popular Culture
ENG 278	Science Fiction in Literature and Film
ENG 279	Film History to 1939 (formerly ENG 289)
ENG 280	Film History after 1939
ENG 281	Canadian 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 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 350	Technology, Media and Literature in Victorian England.
ENG 381	The Evolution of the Fairy Tale in Literature and Film
ENG 382	Screenwriting
ENG 383	Digital Filmmaking
ENG 384	Documentary Filmmaking
ENG 463	Senior Seminar: Screenwriting
FIH 230	History and Theories of Photography
FIH 240	Art, Popular and Mass Culture
FRA 250	French Cinema
FRA 259	Québec Cinema
GER 370	Introduction to German Film
GER 371	East German Cinema: From Rubble Films to Ostalgic
ITA 309	Italian Cinema and Society
ITA 310	Italian Cinema and Society II
MUS 115	Film Music I (<i>formerly MUS 102</i>)
MUS 116	Film Music II
PHI 345	Topics in Philosophy of 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 seeking further information may contact the Director of the Film and Media Studies Program, Dr. Steven Woodward (English), in Morris House.

The Literature Minor (24 credits) MINENL

This minor allows students to focus on the many different aspects and areas of English literatures offered through the English department. The Literature Minor requires 8 courses (24 credits) from the following list:

ENG 100	Introduction to English Studies
ENG 101	Responding to Literature
ENG 104	Approaches to Short Fiction
ENG 108	American Short Story
ENG 110	English Writers of Quebec
ENG 111	Canadian Short Story
ENG 112	English Literary Tradition I
ENG 113	English Literary Tradition II
ENG 115	Women Writers before 1900
ENG 118	Literature of the Environment
ENG 122	Introduction to Russian Literature
ENG 123	Introduction to Indigenous Literature in Canada
ENG 202	History of the English Language
ENG 205	The Art of Persuasion
ENG 210	History of Children's Literature
ENG 212	Crime stories

ENG 215	Introduction to North American Literatures
ENG 217	Arthurian Tradition
ENG 218	The Gothic Tradition
ENG 223	Elizabethan Shakespeare
ENG 224	Jacobean Shakespeare
ENG 225	The Stratford "Shakespeare"
ENG 228	Introduction to Post Colonial Literature
ENG 234	Contemporary Lit Theory
ENG 238	Confessions, Memoirs and Life Writing
ENG 239	Feminist Literary Theory
ENG 241	War and Literature
ENG 250	Modern British Novel
ENG 251	British Dystopian Novel
ENG 252	English-Canadian Literature to WWI
ENG 253	English-Canadian Literature from WWI to Present
ENG 254	Animal Nature in Victorian Culture
ENG 255	Crime and Culture in Victorian England
ENG 256	Early 20 th - Century American Novel
ENG 257	Contemporary American Novel
ENG 275	Contemporary Canadian Novel
ENG 278	Science Fiction in Film and Literature
ENG 295	Jane Austen and Film Adaptation
ENG 310	Anglo Saxon Studies
ENG 311	Anglo-Saxon Studies II
ENG 314	Chaucer
ENG 315	Romance and Dream Vision in Medieval England
ENG 316	Medieval Comedy and Satire
ENG 320	16 th - Century Poetry and Prose
ENG 321	17 th - Century Poetry and Prose
ENG 325	Milton
ENG 332	18 th - Century Literary Journeys
ENG 333	18 th - Century Georgian Literature
ENG 342	Revolution and Romanticism
ENG 347	Early Romantic Poetry
ENG 348	Later Romantic Period
ENG 350	Technology, Media and Literature in Victorian England
ENG 351	Late Victorian Poetry and Prose
ENG 352	Canadian Literature and Theories of Globalization
ENG 353	Boy Meets Girl: American Literature
ENG 356	Early 19 th - Century American Literature
ENG 357	Late 19 th - Century American Literature
ENG 358	Approaches to Indigenous Literary Cultures in Canada
ENG 360	Low Modernism
ENG 361	British Poetry after 1930
ENG 375	Colonial Narratives
ENG 390	Restoration Literature

The Communications and Digital Culture Minor (24 credits) MINCDC

The Communications and Digital Culture minor offers practical instruction in writing and speaking in a variety of academic, creative, and professional contexts, including communication, journalism, copywriting, and various modes of digital production. Housed within an English department that prepares students as critical readers and effective writers, the Minor works to

“broadcast” these strengths by networking with the rich spectrum of cultural production and critique underway at Bishop’s. Drawing on multiple disciplines, this program develops technical expertise in various modes and media, providing training in the skills of communication, critique and collaboration that will help students to develop confident and compelling voices in their chosen fields.

The Communications and Digital Culture minor requires the completion of 24 credits in the following manner:

Two Core Requirements (6 Credits):

CDC 100

ENG 116;

Four ‘Category A’ Electives (Theory and Practice), chosen from the following list (12 credits):

AAD 252 Arts Administration: Communications and Marketing

BMK 323 Marketing Communications

CS 203 Interactive Web Page Design

CS 207 Databases and Dynamic Web Design

ENG 102 Approaches to Media Studies

ENG 202 History of English

ENG 205 Art of Persuasion: Rhetoric from Classical to Contemporary

ENG 236 Popular Culture

ENG 285 Journalism

ENG 286 Online Journalism

ENG 287 Image and Communication: Visual Culture and Critique

ENG 382 Screenwriting

ENG 383 Digital Filmmaking

ENG 384 Documentary Filmmaking

ENG 385 News Editing and Ethics

FIN 218 Digital Imaging for the Artist I

FIS 182 Photography

HIS 275 Digital History

Students may count ONE Experiential Learning ENG course – including ENG 450, ENG 454, ENG 456, ENG 457, ENG 458, and ENG 459 as a ‘Category A’ Elective.

and Two ‘Category B’ Electives chosen from the following list (6 credits):

AAD 250 Arts Administration: Internal Operations

BMK 211 Marketing Management

BMK 214 Consumer Behaviour

BMG 345 International Marketing and Export Management

CS 230 Developing Mobile Apps

CS 301 Computer Ethics

DRA 131 Acting I

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 206 Creative Writing: The Graphic Novel

ENG 290 New Journalism

ENG 296 Sports Writing

FIH 240 Art, Popular and Mass Culture

FIN 348 Digital Imaging for the Artist II

FIS 385

Printmaking: Contemporary Practice

HIS 297

A History of Communications

SOC 280

Interpersonal Communication

(Students may count additional courses from the Category A Electives towards this category.)

The Creative Writing and Journalism Minor (24 credits) MINCWJ

This 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. 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.

The Creative Writing and Journalism Minor requires the completion of eight courses (24 credits) from the following courses:

CDC 100 Introduction to Communication: Theory and Practice

DRA 281 Playwriting I

DRA 282 Playwriting II

ELA 201 Advanced Composition

ELA 202 Speech

ENG 100 Introduction to English Studies

ENG 116 Effective Writing

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 206 Creative Writing: Graphic Novel

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 384 Documentary Filmmaking

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 459 Public Scholarship: Academic Editing and Publishing

ENG 461 Senior Seminar: Poetry

ENG 462 Senior Seminar: Fiction

ENG 463 Senior Seminar: Screenwriting

ENG 464 Senior Seminar: Journalism

Senior seminars will be taught by a specialist in creative writing or journalism.

Students may include *one* of the following short story courses among the eight core electives:

- ENG 104 Approaches to Short Fiction
- ENG 108 American Short Story
- ENG 110 English Writers of Quebec
- ENG 111 Canadian Short Story

Indigenous Studies Minor (24 credits)

MININD

A number of English courses contribute to the Indigenous Studies Minor (ISM), an interdisciplinary program designed to introduce students to the global processes of cultural encounters and the resultant responses of resistance, accommodation, and adaption. Students will be exposed to theories and world-wide applications of, and responses to, imperialism and colonialism, as well as decolonization and post-colonialism. For more information on the ISM Minor, please consult the program description on p. 112 of the Academic Calendar.

List of Courses

CDC 100 Introduction to Communications: Theory and Practice 3-3-0

This course provides a dynamic introduction to the four pillars of communication—oral, written, visual, performative—and offers effective strategies for success in each area. The course combines lectures and workshops, modeling the critical skills in the study of communications while developing the practical skills students require to claim an active role in shaping the cultural conversation. Units culminate in a series of productions—ranging from public addresses, to web design, to podcasting—that emphasize the public nature of the course's interventions into culture, pushing student creations beyond the margin of the page and the classroom.

CDC 400 Senior Professionalization Seminar: Portfolio 3-3-0

This senior professionalization seminar focuses on the development of student portfolios that showcase the unique experience, education and training of each student in the Communications and Digital Culture program. Coursework will support students in crafting an authentic and compelling expression of their distinctive vision and values.

Prerequisites: CDC 100

ENG 100 Introduction to English Studies 3-3-0

A gateway to English studies, this course challenges students to develop critical thinking, speaking, and writing about a wide array of texts, from poetry and fiction to television, film and digital media. The course's workshop structure stresses collaborative work and active engagement with the subject matter through various forms of creative and critical expression (e.g. creative revisions of poetry, journals, Moodle posts, debates, and short essays). Exercises will isolate and develop the core critical skills upon which students will depend throughout their studies in English.

Note: Students who have received credit for ENG 105 are not eligible for ENG 100.

Offered every Fall

ENG 101 Responding to Literature 3-3-0

This course will develop the student's critical thinking, speaking, and writing skills in response to literary texts in English from a range of genres: primarily poetry and prose. It will develop the student's knowledge and familiarity with theoretical approaches to literature, both intrinsic and extrinsic.

Note: Students who have received credit for ENG 106 are not eligible for ENG 101.

Offered every Winter

ENG 102 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

ENG 104 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 108 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 110 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 111 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 may range from Roberts and Callaghan, to such contemporary writers as Munro, Atwood, Glover, and Vanderhaeghe.

Offered every year

ENG 112 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 113 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 115 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 116 Effective Writing 3-3-0

Writing is a key competency in communicating across the disciplines. 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 analyze 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 ENG 116. Students who need a course in basic writing are encouraged to register in the course English Writing Proficiency (EWP 099).

ENG 118 Literature of the Environment 3-3-0

This course will introduce students to a selection of literature -- fiction, poetry, criticism and literary non-fiction--that deals with the relationship of humans with 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 123 Introduction to Indigenous Literatures in Canada 3-3-0

This course is an introduction to traditions and innovations in Indigenous literatures in Canada through textual analysis and an examination of cultural contexts. The primary focus will be on contemporary literatures; 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 124 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.

Formerly ENG 219

ENG 170 / DRA 170 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.

ENG 200 Creative Writing: Poetry 3-3-0

A workshop seminar for students interested in writing poetry.

Not open to 1st year students

ENG 201 Creative Writing: Prose 3-3-0

A workshop seminar for students interested in writing fiction.

Not open to 1st year students

ENG 202 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 205 The Art of Persuasion: Rhetoric, and its Uses and Abuses, From Classical to Contemporary Culture 3-3-0

This course focuses on the history, theory, and practice of rhetoric across disciplinary boundaries. While exploring texts drawn from philosophy, literature, history, psychology, religion, and politics, we will trace common themes, including a sustained attention to the deployment of rhetoric to serve various ideological and polemical purposes, the ethical dimensions of rhetorical use, and the ways in which language seeks to build consensus and create meaning even as it is always at risk of being destabilized, troubled, or deconstructed. The objectives of the course are two-fold: 1) to develop a critical acumen for the identification and analysis of persuasive strategies in arguments 2) to be able to produce persuasive texts and speeches informed by classical theories and techniques.

ENG 206 Creative Writing: The Graphic Novel 3-3-0

This course further examines graphic novels and other sequential storytelling examples with an emphasis on applying literary theories to visual rhetoric. Students will also learn about Book Arts, and how to exploit all elements of "the book" to create artist's books. The class will examine theories on graphic storytelling, wordless communication, colour, layout and typography. Students will be required to produce multiple copies of their original work to learn reproduction techniques.

Prerequisites: ENG 124 or Permission of the Instructor

ENG 210 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.

ENG 212 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 215 Introduction to North American Literatures 3-3-0

This course prepares students for the broader study of American, Canadian and Indigenous literatures by contextualizing and analyzing national literary texts; making linkages between these disparate bodies of literature; and drawing insights about socio-political, literary and cultural developments.

ENG 217 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 218 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 18th century aesthetics, our reading will consider the form, readership, and social vision of various types of gothic literature.

ENG 220 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, Pullman) or a theme present in a selection of works by different authors.

ENG 223 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.

ENG 224 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.

ENG 225 The Stratford "Shakespeare" 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.

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.

ENG 232 Ecocriticism 3-3-0

Students in this course will study the rise of Ecocriticism by tracing the changing attitudes towards the environment as seen in a selection of English literature from the eighteenth century through to the present day. The class will study literary works in a range of genres as well as the central eco-critical theorists such as Williams, Kolodny, Rueckert, Buell and McDowell.

ENG 234 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, 101 or permission of the instructor

ENG 236 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.

ENG 238 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.

ENG 239 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.

ENG 241 War and Literature 3-0-0

This course will examine how a particular modern war is depicted in literature. We will consider the role such literary depictions play in shaping public opinion and creating an understanding of warfare. Students will study works in a range of genres including poetry, prose, and drama.

ENG 250 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.

ENG 251 Keep Calm and Carry On: The British Dystopian Novel 3-3-0

This course traces the development of the British novel after high modernism, paying special attention to the dystopian tradition. Against the backdrop of the decline of the British Empire, the legacy of WWII, multiculturalism, terrorism and the surveillance state, we will explore how these novels negotiate problems of labor and exploitation, desire and consumption, gender and oppression, language and propaganda. We'll also try to make sense of the dystopian novel's current extraordinary popularity, particularly given the genre's typically oppositional stance towards popular culture and consumer society.

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.

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.

ENG 254 Tooth and Claw: Animal Nature in Victorian Culture 3-3-0

This survey of Victorian fiction and poetry investigates the variety of symbolic uses to which animals were put during the nineteenth century, a revolutionary moment in which discoveries in geology and paleontology were throwing into question humanity's place in the natural world. Reading a range of literary forms (from children's fables to lyric poetry to the realist novel), we'll explore how animals served the Victorian imagination, cast alternately as indices of humane and moral quality, as embodiments of domestic ideology and "savage" desires, as grotesque figures of political caricature, and as exotic objects of imperial curiosity.

ENG 255 Legal Bodies: Crime & Culture in Victorian England 3-3-0

This course explores a range of Victorian literary forms, paying particular attention to the culture's deep fascination with crime. We'll investigate the scene of the crime and the body of the criminal as sites of societal crisis that allowed artists to probe anxieties about class, gender, race, urbanism and empire. Works by Braddon, Browning, Dickens, Collins, Rossetti, Stevenson and Wilde will be examined.

ENG 256 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, race relations, and war.

ENG 257 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.

ENG 275 The Contemporary Canadian Novel 3-3-0

The contemporary novel, from the 1970s 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, depictions of masculinity, history and myth, sainthood, the portrait of the artist.

ENG 278 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.

ENG 279 Film History to 1939 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.

ENG 280 Film History after 1939 3-3-0

This course offers a survey of the development of cinema from the outbreak of WWII until the present by considering a range of national cinemas, directors, and aesthetic movements. Topics will include propaganda and documentary films of the war period, Neorealism, Film Noir, genre filmmaking and auteur cinema of the 1950s, Eastern European cinema, Ealing Comedies and Hammer Horror, Japanese post-war cinema, the French New Wave, Italian films of the 1960s, German New Cinema, Canadian cinema after 1970, the New Hollywood, and China's three cinemas.

ENG 281 Canadian Cinema 3-3-0

Covering the entire history of Canadian cinema, this course examines the challenging economic and cultural context of film production and distribution in Canada, the tension between pan-Canadian and regional cinemas, the documentary tradition, First-Nations cinema, experimental filmmaking, and the thematic links of Canadian cinema to Canadian literature and culture more generally.

ENG 282 Film Adaptation 3-3-0

What is lost, and what is found, in translation? This class explores the theory and practice of filmic adaptation, exploring a variety of texts (often multiple re-mediations of the same story) that allow us to perform a comparative analysis of linguistic and visual art forms. Class discussion and course assignments are designed to provide ongoing training in the formal study of film. We'll consider how these translations highlight the "specificity" of film (the resources and limits, industry and audience, that are peculiar to cinema), as well as showcasing the remarkably adaptive nature of a medium that has evolved by absorbing and synthesizing other forms of art, from magic and burlesque shows to comic books and video games.

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 vérité 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 285 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 286 Online Journalism 3-3-0

A hands-on, real-life approach to accurate reporting of local news stories through an online newspaper created and maintained by course participants with active supervision/involvement by the instructor/managing editor. The online 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: Visual Culture and Critique 3-3-0

This course aims to cultivate visual literacy, primarily by examining our ingrained "ways of seeing" and interrogating common-sense ideas about the relation between images and reality. Lectures and class discussion will be devoted to

close analysis of objects that both illustrate and critique established theories of the image. From photography, to graffiti, to everyday iconography such as traffic signs and advertising, we'll consider the ways in which images carve up the world we live in, possessing the capacity to naturalize or defamiliarize the conventions of everyday life.

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 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. Thompson'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.

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.

ENG 295 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.

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 297 From Aliens to Zombies: Everything You Ever Wanted to Know about Horror but Were Afraid to Ask 3-3-0

In this course, we'll explore cinema's obsession with "monster movies." A key concern will be the depiction of the monster as *inhuman*: an embodiment of hostile difference that threatens the security and integrity of human experience and identity. We'll ask how this foreignness is imagined by different cultures at different times, often functioning as an index of political tensions, and a symptom of societal fears and sexual taboos. Turning from the strange creatures depicted on screen, we'll also consider the effects these films have on the bodies of viewers.

Horror films captivate and appall us because they remind us that we have nerves, desires and appetites. What sort of unusual pleasures do we derive from subjecting ourselves to sensations of fear, pain and awe?

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 310 Old English 3-3-0

This course offers an introduction to the language and literature of the Old English period (600 – 1100 CE). Here lie the foundations of the English language and the origins of social, political and religious institutions that would help to shape the next thousand years in England. Urgency pervades the writing of these centuries, as tribal kings and warriors vie for power; as Christians come and prophesy salvation but also judgment Day; and as Vikings stalk the land in search of gold and glory. Translations do not do this literature justice, and so we will learn to read in the original. In doing so, you will gain special insight into the English language that few now possess. No experience required.

ENG 314 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.

ENG 315 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.

ENG 320 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.

ENG 321 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.

ENG 332 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.

ENG 333 Eighteenth-Century Georgian Literature: Town, Country, Nation 3-3-0

In this course we examine a diverse range of literary texts that map England's dominance as a world power. We discover how the stability provided by George I, George II, and George III influenced the drama, poetry and novels of this period in unexpected ways.

ENG 342 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.

ENG 347 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.

ENG 348 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.

ENG 350 Ghosts in the Machine: Technology, Media and Literature in Victorian England 3-3-0

This course investigates the pervasive influence of machinery on Victorian literature and culture. We'll ask how technological advancements in the fields of industry, information technology and popular entertainment changed the way Victorians thought about consciousness, labour, class, spirituality and sexuality. In addition to studying a range of nineteenth-century media, from poetry and prose to photography and early cinema, we'll also explore how contemporary culture—in genres such as sci-fi and steampunk—has worked to revision and mythologize Victorian technology.

ENG 351 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.

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.

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.

ENG 356 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.

ENG 357 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.

ENG 358 Approaches to Indigenous Literary Cultures in Canada 3-3-0

This course will examine theoretical approaches to Indigenous literatures 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.

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, painters, film directors, and musicians in order to demonstrate the (often conflicting) social and political ideological structures from which these artists operated.

ENG 360 Low Modernism: Taste, Waste, and the Marketplace 3-3-0

Discussions of literary Modernism often turn upon the distinctions between high and low culture; but what, exactly, is "low" modernism? In this course we'll question assumptions about modernist literature's hostility to popular culture, exploring how writers participated and engaged (if ambivalently) with the tastes, conventions, and experiences of mass culture. Against a monolithic vision of Modernist aesthetics as reactionary, difficult, abstract and austere, this course aims to take pleasure seriously, reading the canon of Modernism (Joyce, Eliot, Woolf) in boisterous conversation with popular forms of entertainment, guilty pleasures, camp and kitsch.

ENG 361 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.

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.

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.

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.

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 384 Documentary Filmmaking 3-3-0

This film production course is designed to help students understand, analyze and produce documentary films. Over the course of the term, students will work independently and in groups on practical exercises and the production of several short documentary films. Lectures will introduce students to documentary scripting and workflow. Class discussions and screenings will address the theoretical and ethical challenges particular to the documentary process. Workshops will familiarize students with the university's production resources and develop essential technical skills such as interview setups, hand-held cinematography, location sound recording, and editing.

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 456 Communications: Analysis, Design, and Implementation 3-3-0
This course challenges students to design a communications strategy based on the needs and profile of the projects they are assigned. Students analyze communications strategies with the help of industry experts, work together to design a communications plan tailored to the needs of the project, and implement the strategy. Students are trained on the most up to date industry standard design software with mentorship from communications professionals. Students have an opportunity to develop skills and competencies in some of the following professional fields: social media strategies; strategic marketing and guerrilla advertising; communications strategies & platforms; copywriting and professional writing; metrics and segmented narratives; website content design and optimization; fundraising.

Admittance into the course is limited and therefore subject to instructor permission.

ENG 457 Magazine Editing and Publishing 3-3-0
This experiential course focuses on effective editing of magazines, with a primary focus on magazine articles (sometimes referred to in the industry as substantive editing) to build capacities for writing both style and content, grounded in the liberal arts. Skills developed in this course include assigning or acquiring manuscripts; tailoring content for specific readerships; coaching writers according to their individual strengths and weaknesses; editing for completeness and clarity; effective cutting and silken transitions; and use of imagery, anecdote, and a variety of voices and rhythms to delight and provoke readers. Students will form an editorial board and work together to design and launch a magazine (e.g. Be you @ BU for the Recruitment Office, BU Alumni Magazine for the Advancement Office, etc). This course is invaluable for anyone planning to edit longer manuscripts, explore the magazine industry (online or in print), and for aspiring professional writers.

Admittance into the course is limited and therefore subject to instructor permission.

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 459 Experiential Learning: Public Scholarship and Academic Editing and Publishing 3-3-0
A practical course in the assessment, editing and publication of undergraduate academic work. In consultation with a faculty advisor from the English Department and the QUEUC conference coordinator, the student will coordinate the selection of student papers for the conference and oversee the subsequent publication of conference proceedings.

ENG 460 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: Enrolment 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: Enrolment 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: Enrolment 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: Enrolment 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 471 Honours Research Proposal 3-0-0
The preparatory stage of an individual specialized research project on a topic chosen by a student under the supervision of a member of the English Department. The student will develop a research proposal, an annotated Bibliography, and a 12 - 15 page essay on the initial findings of the project.

ENG 472 Honours Thesis 3-0-0
Continuation of ENG 471. The student will complete the research agenda detailed in ENG 471, and present the findings in the form of a thesis. An oral examination will be required, and the thesis will be assessed by three members of the English Department.

Prerequisite: ENG 471

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. ENG 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 ENG 116 is open to all students who wish to improve their written communication.

ENG 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.

List of Courses

ENG 116 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 ENG 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

- ENG 100: Introduction to English Studies
- ENG 104: Approaches to Short Fiction
- ENG 108: The American Short Story
- ENG 110: English Writers of Quebec
- ENG 111: Canadian Short Story
- ENG 116: Effective Writing
- 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 ENG 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 ENG 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 either Literature or Film and Media Studies. Students must take ESL 210, 211, and ENG 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, ENG 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.

Film and Media Studies

ESL 210, ESL 211, ENG 116; two foundation year courses (ENG 102, and one of ENG 100, ENG 112, or ENG 113); ENG 236, ENG 289, ENG 291 and DRA 170 (12 credits); one other ENG (film) course.

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 ENG 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 70	English Second Language: Beginners I	3-3-0 EXT
ESL 102	Beginners English as a Second Language II	3-3-0
ESL 103	Intermediate English as a Second Language I	3-3-0
ESL 104	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 070, ESL 102, ESL 103, ESL 104. 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:

ENG 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 70 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 102 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 103 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 110

ESL 104 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 111

ESL 110 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 103

ESL 111 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 110, may be taken concurrently with ESL 110.

Antirequisite: ESL 104

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 113 ESL for Special Purposes – Beginner Level 3-3-0

This beginner level ESL course will address specific needs of students – for example ESL for Tourism and ESL for Arts and Culture – both within and outside of the BU community. As such, the content will vary from semester to semester.

Prerequisites: ESL 070 or ESL 102 or tested level

ESL 114 ESL for Special Purposes – Low- Intermediate Level 3-3-0

This low-intermediate level ESL course will address specific needs of students – for example ESL for Tourism and ESL for Arts and Culture – both within and outside of the BU community. As such, the content will vary from semester to semester.

Prerequisites: ESL 103 or ESL 104 or tested level

ESL 121 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 122 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 125 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 126 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 127 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

Études françaises et québécoises

Faculty

Sarah Théberge,

B.A. (Université Bishop's), M.A. (Université de Sherbrooke), Diplôme d'études supérieures (McGill),
Doctorante (Université de Sherbrooke)
Directrice du département

Amélie Hélène Rheault,

B.A. (Université de Sherbrooke), M.A. (Université de Sherbrooke), Ph.D. (Université de Sherbrooke/Université catholique de Louvain Belgique)

Program Overview / Description des programmes

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 one course focusing on aural comprehension and expression. This provides the students with a coherent and logical learning process by the end of which they can understand, read, speak, and write French correctly.

The Department also offers a number of inter and multidisciplinary courses designed for both native and advanced non-native speakers. These courses allow students to progressively master the French grammar and language, and to become acquainted with a variety of cultural movements that are significant to the *francophone world*. Through the study of the works of meaningful francophone artists, students will better understand and appreciate the history of the *francophonie* and its evolution.

Le *Département d'études françaises et québécoises* concentre ses efforts sur l'apprentissage, l'amélioration et la qualité de la langue française pour les étudiant.e.s. de niveaux débutant, intermédiaire et avancé ainsi que pour les francophones. 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 étudiant.e.s une progression linguistique logique et cohérente au terme de laquelle ils pourront comprendre, parler, lire et écrire le français correctement et avec aisance.

Le département offre également une série de cours inter et multidisciplinaires, destinés aux étudiant.e.s francophones ou allophones avancés, qui permet de mieux maîtriser la langue française, d'acquérir de solides connaissances des divers mouvements culturels ayant marqué la francophonie, et de comprendre et de mieux apprécier les créations artistiques fondatrices de son histoire et de son évolution.

ESL 131 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 200 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 201 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 210 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 211 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 Quebecers, exchange students and new Canadians. There will continue to be an extensive writing component at this level.

ESL 213 ESL for Special Purposes – High- Intermediate Level 3-3-0

This high-intermediate level ESL course will address specific needs of students – for example ESL for Tourism and ESL for Arts and Culture – both within and outside of the BU community. As such, the content will vary from semester to semester.

Prerequisites: ESL 110 or ESL 111 or tested level

ESL 214 ESL for Special Purposes – Advanced Level 3-3-0

This advanced level ESL course will address specific needs of students – for example ESL for Tourism and ESL for Arts and Culture – both within and outside of the BU community. As such, the content will vary from semester to semester.

Prerequisites: ESL 210 or ESL 211 or tested level

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 for a year, and are deleted in May.

Les étudiant.e.s 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.

Pour toutes questions concernant le Test de placement, veuillez contacter la directrice ou le directeur du département.

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 for 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.

Programs

Honours in French as a Second Language / *Honours in Études françaises et québécoises* (60 credits) HONFRA

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 Master's level. Each is composed of 60 credits (20 courses) with the combined designations FRE and FRA for an 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 étudiant.e.s désirant se spécialiser en French as a Second Language ou en Études françaises et québécoises. Souvent, mais pas nécessairement, les étudiants qui optent pour ces programmes planifient poursuivre des études au niveau de la maîtrise. Chacun est composé de 60 crédits (20 cours) ayant les sigles FRA et FRE combinés pour le Honours French as a Second Language, 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.e doit avoir maintenu une moyenne d'au moins 70 %, calculée sur les 60 meilleurs crédits de sa discipline Honours (y compris les cours connexes), pour obtenir un baccalauréat avec mention d'un programme Honours dans toutes les disciplines de la Division des arts et des sciences. Les étudiant.e.s ayant étudié dans des institutions francophones, ou qui ont déclaré le français comme langue maternelle ou langue d'usage, ne peuvent s'inscrire à une majeure French as a Second Language.

Major in French as a Second Language (48 credits) MAJFSL

This program is designed for students who wish to become bilingual or pursue a career where a very good knowledge of French is a strong asset.

Majeure en langue et culture française avec programme d'échange (48 crédits) MAJFPE

La Majeure en langue et culture française avec programme d'échange est un programme qui s'adresse aux étudiant.e.s francophones ou allophones de niveau avancé désirant acquérir les connaissances nécessaires pour bien maîtriser la langue française et explorer les différentes expressions culturelles de la francophonie.

Pour obtenir cette majeure, l'étudiant.e doit avoir complété un nombre minimal de 6 cours (18 crédits) précédés du sigle « FRA » et suivis à l'Université Bishop's. Ces crédits devront être combinés à a) des crédits en français obtenus par l'entremise d'un échange en immersion, sur une période d'un ou de deux semestres, à une université partenaire en France (ou dans un autre pays francophone) ou à b) des crédits suivis dans une université francophone partenaire au Québec. Les étudiant.e.s devront s'inscrire à la majeure avant de quitter pour leur échange universitaire et consulter la directrice ou le directeur du Département d'études françaises et québécoises au sujet de leur sélection de cours dans les universités partenaires. Un nombre maximal de deux cours FRE, de *niveau 3-avancé*, peut être inclus dans cette majeure.

Major in Modern Languages with a French component / Majeure en langues modernes avec une composante française (60 credits) MAJMLA+CONFLS

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.

La majeure en langues modernes, offerte par le Département des langues modernes, est composée de 60 crédits dans deux langues (30 crédits chacune) et le français peut être choisi comme l'une de ces deux langues.

Double Major French – Spanish and Education (24 credits in Spanish + 24 credits in French)

MAJEFS

Program requirements for students pursuing a Double Major in French-Spanish and Education may be found under “School of Education” in the Academic Calendar. All questions concerning courses and requirements should be referred to Dr. Anthony Di Mascio (adimasci@ubishops.ca), Sarah Théberge (stheberg@ubishops.ca) or Dr. Jordan Tronsgard (jtronsga@ubishops.ca).

Minor in French as a Second Language (24 credits)

MINFSL

This program 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, students must have at least completed FRE 141 at Bishop’s.

Mineure en Études de la langue française (24 crédits)

MINFRA

This program 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 should choose 8 courses from our “FRA” offering, although a maximum of two (2) FRE *Level 3-advanced* courses can be accepted in this minor.

Ce programme de 24 crédits (8 cours) s’adresse aux étudiant.e.s francophones ou allophones ayant déjà une bonne connaissance du français et qui désirent améliorer leurs connaissances linguistiques ou acquérir une perspective d’ensemble des cultures francophones. Pour obtenir cette mention sur son diplôme, l’étudiant.e devrait avoir complété 8 cours précédés du sigle « FRA », bien qu’un nombre maximal de deux cours FRE, de *niveau 3-avancé*, soient acceptés dans cette mineure.

Independant Studies / Études dirigées

Only students in their last year in the Majeure en langue et culture française avec programme d’échange 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 et étudiantes en dernière année d’une Majeure en langue et culture française avec programme d’échange (MAJFPE) 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 à la professeure ou au professeur de leur choix.

Departmental Policy regarding FRE and FRA Courses

FRE courses are French as a Second Language courses and are therefore designed and reserved for non-francophone students. We consider to be *francophone* a student whose parents (one or both) are native French speakers, and/or a student who has studied full-time, at any moment during his/her schooling, in a francophone institution (aside from immersion programs). If it is discovered, when studying at Bishop’s, that a francophone has received credits for one or many FRE course(s), he or she will lose all corresponding credits without reimbursement. Exceptions can be made with a mandatory written permission from the Chair of the Department to register and to obtain credits for an FRE course. Francophone students are allowed to take, without any restrictions other than specific prerequisites, any of the FRA courses offered by our department.

Politique du département pour les cours FRE et FRA

Les cours FRE sont des cours de français langue seconde. Ils sont conçus spécifiquement pour les non-francophones et leur sont donc réservés. Nous considérons comme étant *francophone* un étudiant ou une étudiante dont les parents (un seul ou les deux) ont le français comme langue maternelle, et un étudiant ou une étudiante qui aurait étudié à temps plein dans une institution francophone, peu importe le niveau, au cours de son cheminement scolaire (ce qui exclut les programmes d’immersion). Si, par inadvertance, l’Université Bishop’s octroyait des crédits FRE à des étudiants ou étudiantes francophones ayant caché la vérité sur leur situation, ces crédits seraient annulés sans remboursement. Avec la permission écrite de la directrice ou du directeur du département, un francophone pourrait faire figure d’exception et suivre un cours FRE (et en obtenir les crédits). Les francophones peuvent s’inscrire à tous les cours FRA offerts par le département. Il faut tout simplement s’assurer d’avoir les prérequis, s’il y a lieu.

Year by year progression for a student in a Major or a Minor (depending on the entry level) / Progression par année pour un étudiant.e inscrit.e à une majeure ou à une mineure

Culture courses (literature, cinema, sociocultural history, etc.) are offered on rotation.

Level 1 – Beginners

FRE 100	French I <i>and</i>
FRE 101	French II
<i>or</i> FRE 190 Intensive French – Level 1 (6 credits)	
FRE 115	Introduction to French Phonetics and Aural Comprehension (optional to advance to Level 2)

Level 2 – Intermediate

FRE 120	French III <i>and</i>
FRE 121	French IV
<i>or</i> FRE 191 Intensive French – Level 2 (6 credits)	
FRE 122	Atelier de conversation multiniveau I
FRE 123	Atelier de conversation multiniveau II
FRE 135	Culture and Society. Conversational French I (optional to advance to Level 3)
FRE 136	French Written Communication I

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)
FRE 156	French Written Communication II
MLA 101	Issues in Language and Linguistics (mandatory for Majors / Honours; counts as an FRA course)
FRA 160	Le français, langue des affaires
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 136 / DRA 136	Techniques de jeu I
FRA 206	Histoire de la langue française
FRA 208	Histoire du français au Québec
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 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
FRA 260	Voyage et littérature

Level 5 – Advanced / Niveau 5 – Avancé

FRA 307	Traduction générale
FRA 308	Traduction en contexte réel
FRA 309	Assistanat en enseignement du français langue seconde
FRA 310	Tutorat au Centre d'aide en français
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 19 ^e 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

List of Courses / Liste des cours

Level 1 – Beginners

FRE 100	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: previously FRA 131 or FRE 131 or FRE 137

FRE 101	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: previously FRA 132 or FRE 132 or FRE 137

FRE 115	Introduction to French Phonetics and Aural Comprehension	3-3-0
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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 or FRE 101 or FRE 120 in progress or completed or permission from the Department

Antirequisite: FRE 121 or higher completed or previously FRE 133 or higher completed

FRE 190	Intensive French – Level I	6-6-0
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This course covers the contents of FRE 100 and FRE 101 in one semester.

Prerequisite: according to result in placement test

Antirequisite: previously FRE 131 or FRE 132 or FRE 137 or FRE 100 or FRE 101

Level 2 - Intermediate

FRE 120 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: previously FRA 133 or FRE 133 or FRE 138

FRE 121 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 entertainment, among other themes.
Prerequisite: FRE 101 or FRE 120 or previous FRE 133 or appropriate result in placement test
Antirequisite: previously FRA 134 or FRE 134 or FRE 138

FRE 122 Atelier de conversation multination I 3-3-0
Through the use of authentic cultural texts (audio/audiovisual/written), this course aims at improving global pronunciation (standard French), oral communication, and aural comprehension of real-life conversations by listening to, watching, and analyzing diverse grammatical and cultural material published in French. Class time will focus on oral exercises and aural comprehension activities, and will include volunteer work in the surrounding francophone community.
Prerequisite: FRE 100 completed or permission from the Department
Antirequisite: FRA level students

FRE 123 Atelier de conversation multination II 3-3-0
Through the use of authentic cultural texts (audio/audiovisual/written), this course aims at improving global pronunciation (standard French), oral communication, and aural comprehension of real-life conversations by listening to, watching, and analyzing diverse grammatical and cultural material published in French. Class time will focus on oral exercises and aural comprehension activities, and will include volunteer work in the surrounding francophone community.
Prerequisite: FRE 100 completed or permission from the Department
Antirequisite: FRA level students

FRE 135 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 or FRE 121 completed or FRE 140 or FRE 141 in progress

FRE 136 French Written Communication I 3-3-0
This course is designed to improve the students' writing skills and increase their vocabulary and their understanding of the grammar learnt at the beginner and intermediate levels. Focus will be put on clarity and simple sentences. A variety of reading and writing tasks will be used to help students develop their abilities.
Prerequisite: FRE 120 or FRE 121 in progress or completed or equivalent in the placement test

FRE 191 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: previously FRE 133 or FRE 134 or FRE 138 or 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 140 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.
Antirequisite: previously FRE 151

FRE 141 Grammatical Review (French VI) 3-3-0
Continuation of FRE 140, 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 121 or Grade 11 French in a Canadian institution or result in placement test
Antirequisite: previously FRE 152

FRE 155 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 or FRE 140 or FRE 141 completed or in progress
Antirequisite: Completion of a FRA course

FRE 156 French Written Communication II 3-3-0
This course is designed to improve students' written French skills, to sharpen vocabulary and to put into practice the grammar covered in the early stages of the advanced level. Focus will be put on clarity and complex sentences. A variety of reading and writing activities will be used to help students produce idiomatic texts in French in a variety of formats.
Prerequisite: FRE 140 completed or equivalent in the placement test

MLA 101 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 136 / DRA 136 Techniques de jeu I 3-3-0
Introduction aux techniques d'interprétation d'art dramatique à partir de textes, et d'études des bases de la performance scénique. Travail en équipe sur des scènes tirées d'œuvres théâtrales modernes et contemporaines.

FRA 160 Le français, langue des affaires 3-3-0
Rédaction et communication orale en français de correspondances administratives, commerciales et diplomatiques, élaborées selon les exigences culturelles et contextuelles du monde des affaires au Québec. Étude de notions grammaticales et lexicales à partir de modèles de lettres et de communications orales qui respectent les normes de l'Office québécois de la langue française.
Prerequisite: Aucun.

FRA 165 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 étudiant.e.s 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 166 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 étudiant.e.s 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 181 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 Conquête, 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 182 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 187 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 étudiant.e.s francophones sauf lorsque spécifiquement indiqué.

FRA 206 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 208 Histoire du français au Québec 3-3-0
Étude de ce qui a contribué, dès sa traversée de l'Atlantique au 17^e siècle jusqu'à aujourd'hui, à modeler le français québécois comme variété autonome de français, notamment en ce qui a trait au sens, au lexique et à la prononciation. Le cours s'intéressera aux facteurs sociaux, politiques et culturels de différenciation, mais aussi de rapprochement entre les variétés québécoise et française.
Prerequisite: Aucun.

FRA 227 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 étudiant.e.s. 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: Previously FRA 245.

FRA 228 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: FRA 227 or permission from the Department
Antirequisite: Previously FRA246

FRA 229 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: FRA 227 or permission from the Department

FRA 230 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 maîtriser 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

FRA 247 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 250 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. FRA 250 does not count towards the Divisional requirement in Languages.

FRA 252 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 jodel, 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: previously FRA 288

FRA 253 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: previously FRA 381

FRA 254 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 255 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 259 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. FRA 250 does not count towards the Divisional requirement in Languages.

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 20^e 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 285 Roman québécois contemporain 3-3-0

La maturité du roman québécois, des années 1970 à nos jours. L'émergence de la littérature migrante, l'engouement pour la littérature jeunesse, le roman urbain et la littérature autochtone 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: previously FRA 282

FRA 256 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 Chateaubriand, Hugo, Colette, Stendhal, Balzac, Sand, Proust, Vian, etc.

Prerequisite: FRE 141 or previous FRE 152 or any course with the designation FRA

FRA 257 Les grands moments du théâtre français 3-3-0

Puises 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: previously FRA 261

FRA 260 Voyage et littérature 3-3-0

Aperçu de la littérature de voyage par le biais d'une série d'extraits représentatifs des grands écrivains de ce type de récit aux frontières des genres littéraires. Lectures de textes, commentaires, rédactions, créations et analyses littéraires. Une attention sera portée sur l'espace, l'altérité et le soi, éléments centraux du récit de voyage.

Prerequisite: Aucun.

Level 5 / Niveau 5

FRA 307 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: FRA 227 or permission from the Department

FRA 308 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: FRA 227 or permission from the Department

FRA 309 Assistantat en enseignement du français langue seconde 3-3-0

Ce cours permet aux futurs enseignants et enseignantes du français langue seconde (et autres étudiants francophones ou niveau équivalent) de gagner de l'expérience en salle de classe, tout en bénéficiant d'une supervision formatrice. Les étudiants et étudiantes participeront à la préparation du cours, à l'enseignement de notions grammaticales, à l'animation de discussions, à la création de grilles d'évaluation et à la correction de présentations orales et autres types d'évaluations. Initiation aux outils pédagogiques numériques.

Prerequisite: FRA 200 level

FRA 310 Tutorat au Centre d'aide en français 3-3-1

Ce cours permet aux futurs enseignants et enseignantes de français langue seconde (et autres francophones ou niveau équivalent) de travailler en situation d'enseignement individuel, dans le but de parfaire le rendement de leurs connaissances, tant à l'oral que dans la préparation des activités. Initiation aux outils pédagogiques numériques.

Prerequisite: FRA 200 level

FRA 315 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: previously FRA 207 or FRA 244 or obligatoire pour les étudiant.e.s en enseignement.

FRA 316 Pièges et mystères de la langue française II 3-3-0

Suite du cours FRA 315 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: previously FRA 207 or FRA 244 or obligatoire pour les étudiant.e.s en enseignement.

FRA 351 De l'aventure au réalisme : la fiction au 19^e siècle 3-3-0

Lecture et observation des œuvres romanesques les plus marquantes du 19^e 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: previously FRA 365

FRA 353 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: previously FRA 270 or obligatoire pour les étudiant.e.s en enseignement

FRA 355 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: previously 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

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 étudiant.e.s francophones sauf lorsque spécifiquement indiqué.

FRA 136 / DRA 136 Techniques de Jeu I 3-3-0

Introduction aux techniques d'interprétation d'art dramatique à partir de textes, et d'études des bases de la performance scénique. Travail en équipe sur des scènes tirées d'œuvres théâtrales modernes et contemporaines.

FRA 206 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 208 Histoire du français au Québec 3-3-0

Étude de ce qui a contribué, dès sa traversée de l'Atlantique au 17^e siècle jusqu'à aujourd'hui, à modeler le français québécois comme variété autonome de français, notamment en ce qui a trait au sens, au lexique et à la prononciation. Le cours s'intéressera aux facteurs sociaux, politiques et culturels de différenciation, mais aussi de rapprochement entre les variétés québécoise et française.

Prerequisite: Aucun.

FRA 227 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 étudiant.e.s. 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 previously FRA 245.

FRA 228 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: FRA 227 or permission from the Department

Antirequisite: FRA 228 or previously FRA 246

FRA 229 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: FRA 227 or permission from the Department

FRA 230 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 maîtriser 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

FRA 247 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 250 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. FRA 250 does not count towards the Divisional requirement in Languages.

Prerequisite: FRE 141 or previous FRE 152 or any course with the designation FRA

FRA 252 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 jodel, 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: previously FRA 288

FRA 253 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: previously FRA 381

FRA 254 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 255 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 259 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. FRA 250 does not count towards the Divisional requirement in Languages.

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 20^e 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 285 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: previously FRA 282

FRA 256 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 Chateaubriand, Hugo, Colette, Stendhal, Balzac, Sand, Proust, Vian, etc.
Prerequisite: FRE 141 or previous FRE 152 or any course with the designation FRA

FRA 257 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: previously FRA 261

FRA 260 Voyage et littérature 3-3-0
 Aperçu de la littérature de voyage par le biais d'une série d'extraits représentatifs des grands écrivains de ce type de récit aux frontières des genres littéraires. Lectures de textes, commentaires, rédactions, créations et analyses littéraires. Une attention sera portée sur l'espace, l'altérité et le soi, éléments centraux du récit de voyage.
Prerequisite: Aucun.

Level 5 / Niveau 5

FRA 307 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 étudiant.e.s à développer le travail d'équipe. Retour sur les méthodes de traduction et lecture de textes pertinents sur la théorie de la traduction.
Prerequisite: FRA 227 or permission from the Department

FRA 308 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: FRA 227 or permission from the Department

FRA 315 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: previously FRA 207 or FRA 244 or obligatoire pour les étudiant.e.s en enseignement.

FRA 316 Pièges et mystères de la langue française II 3-3-0
 Suite du cours FRA 315 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: previously FRA 207; FRA 244; obligatoire pour les étudiant.e.s en enseignement.

FRA 351 De l'aventure au réalisme : la fiction au 19^e siècle 3-3-0
 Lecture et observation des œuvres romanesques les plus marquantes du 19^e 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: previously FRA 365

FRA 353 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: previously FRA 270 or obligatoire pour les étudiant.e.s en enseignement

FRA 355 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: previously 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

Fine Arts

Faculty

James Benson,

B.F.A., M.F.A. Ph.D. (Concordia);
Professor, Chair of the Department

Darren Millington,

B.A. (Bishop's), M.F.A. (UQAM),
Ph.D. (Concordia); Professor

Program Overview

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 (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).

Programs

Major in Fine Arts—Studio Concentration (48 credits) MAJFIN+CONFIS

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). Any student who wishes exemption from a requirement should submit a request and relevant documentation to the Department Chair before registration is completed.

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 Neoclassicism
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, the required FIH 221: Art since the 1960s, and 300 level FIH art history course (for more detail, see courses listed 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, FIS 372

Sculpture III, FIS 373 Sculpture IV, FIS 382 Painting III, and FIS 383 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 Neoclassicism, FIH 220: Twentieth-Century Art to the 1960s, FIH 221: Art since the 1960s, and one 300-level Art History course.

Comparative Arts (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.)*

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.

Studio Honours Program (60 credits)

HONFIS

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). Any student who wishes exemption from a requirement should submit a request and relevant documentation to the Department Chair before registration is completed.

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 Neoclassicism, FIH 220: Twentieth-Century Art to the 1960s, FIH 221: Art since the 1960s, and one 300-level Art History course.

Comparative Arts (FIN) 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.

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.

Double Major: Secondary Education and Fine Arts (39 Fine Arts credits + 54 credits in Education)

MAJEFI

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.

Minor in Fine Arts Program (24 credits)

MINFIN

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 Neoclassicism, FIH 220: Twentieth-Century Art to the Sixties, FIH 221: Art since the 1960s and 12 credits in studio.

Certificate in Studio Arts (30 credits)

CONFIN

The Certificate in Studio Arts 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 101 (formerly FIN 101)	Survey of Western Art I: Prehistory to Medieval	3-3-0
FIH 102 (formerly FIN 102)	Survey of Western Art II: Renaissance to Neoclassicism	3-3-0

2) The remaining 24 credits must be chosen from the Studio course list.

FIS 160 (formerly FIN 160)	Drawing I	3-0-6
FIS 170 (formerly FIN 170)	Sculpture I	3-0-6
FIS 180 (formerly FIN 180)	Colour Theory and Practice	3-0-6
FIS 181 (formerly FIN 181)	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 140 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 160 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 170 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 175 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 176 Collage 3-0-6
In this course students will explore the multiple possibilities of collage, a contemporary medium derived from the traditions of painting and drawing. In studio projects using two- and three-dimensional supports in a variety of formats, students will experiment with paper, found objects, photocopies, paint, and other media. Development of visual vocabulary, technical skills and creative expression of personal concepts in a non-traditional means of expression will be the focus of this course.

FIS 180 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 181 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 281 (formerly FIN 281) may not take FIS 181 (formerly FIN 181) for credit.

FIS 182 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 295 may not take FIS 182 for credit.

Prerequisite: FIS 140 or FIS 160

FIS 185 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 190 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.

Prerequisite: FIS 140 or FIS 160

Intermediate Level

FIS 260 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 graphic media. Consideration will be given to how and why the figure is essential to contemporary practice.

Prerequisite: FIS 160, formerly FIN 160

FIS 271 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 170, formerly FIN 170

FIS 275	Fiber Art II	3-0-6
This course is a continuation of Introduction to Fiber Art. <i>Prerequisite: FIS 175</i>		
FIS 281	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. <i>Prerequisite: FIS 180 or FIS 181 (formerly FIN 180 and FIN 181)</i>		
FIS 285	Landscape Drawing and Painting II	3-0-6
This course is a continuation of Landscape Drawing and Painting. <i>Prerequisite: FIS 185</i>		
FIS 291	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. <i>Formerly FIN 191</i> <i>Students who have taken FIN 191 may not take FIS 291 for credit</i> <i>Prerequisite: FIS 140 or FIS 160</i>		
FIS 296	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. <i>Course requirement: A fully-manual digital single lens reflex camera (DSLR).</i> <i>Prerequisite: FIS 182, formerly FIN 182</i>		

Advanced Level

FIS 261	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. <i>Prerequisite: FIS 260, formerly FIN 260</i>		
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. <i>Prerequisite: FIS 261</i>		
FIS 302	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. <i>Prerequisite FIS 296, formerly FIN 296</i>		
FIS 372	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. <i>Prerequisite: FIS 271, formerly FIN 271</i>		
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 372

FIS 382	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. <i>Prerequisite: FIS 281, formerly FIN 281</i>		

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. <i>Prerequisite: FIS 382</i>		

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. <i>Prerequisite: FIS 302</i>		

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. <i>Prerequisite: FIS 190 Printmaking: Intaglio or FIS291 Printmaking: Relief</i>		

FIS 390	Independent Study in Studio Art I	3-0-0
FIS 391	Independent Study in Studio Art II	3-0-0
FIS 392	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.

FIS 395	Advanced Studio Problems I	3-0-6
The advanced student is invited to apply his/her acquired knowledge and techniques in two or three major projects that follow a conceptual approach and often extend image making from the personal to the public. Dialectic and deconstructive approaches are discussed and investigated while a clear discernment in the selection of imagery and materials is encouraged. <i>Prerequisite: 15 FIS credits</i>		
FIS 396	Advanced Studio Problems II	3-0-6
The further development of an emerging practice. <i>Prerequisite: FIS 395</i>		

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):

Majors and honours are required to take FIH100, 102, 220, 221 plus any 300 level FIH for a total of 15 FIH credits (see course descriptions under the Art History programme).

FIH 100	The Art of Viewing: Introduction to Art History	3-3-0
FIH 102	Survey of Western Art II: Renaissance to Neoclassicism	3-3-0
FIH 220	Twentieth Century Art to the Sixties	3-3-0
FIH 221	Art Since the 1960s	3-3-0
FIH 314	Colonial and Post Colonial Issues in Visual Arts	3-3-0
FIH 318	Current Practices and Production	3-3-0
FIH 320	Special Topic in Art History	3-3-0
FIH 323	Seminar in Art History, Theory and Criticism in Art I	3-3-0
FIH 350	Independent Study in Art History I	3-3-0
FIH 351	Independent Study in Art History II	3-3-0

COMPARATIVE ARTS COURSES (FIN):

Majors are required to take 6 credits from the following list.

FIN 218	Digital Imaging for the Artist I	3-3-0
This course serves as an introduction to current practice on the computer in the graphic arts industry. Students will gain proficiency in the use of various software, particularly Photoshop, Illustrator, and InDesign on a Macintosh platform.		
FIN 222	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 235	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.		
<i>Prerequisite: FIH 100, FIH 102, or consent of instructor</i>		
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.		
<i>Professor Coulter</i>		
FIN 301	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.		
<i>Prerequisites: FIS 160, FIS 170, FIS 181, and either one of FIS 261, FIS 372, or FIS 382</i>		

FIN 348	Digital Imaging for the Artist II	3-3-0
Students will delve deeper into the creative potential of Adobe Creative Suite and will work individually and in groups on real-world print and multimedia productions in collaboration with students involved in performances in the fine and creative arts.		
<i>Pre-requisite: FIN 218 or consent of instructor</i>		

FIN 303	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.		
<i>Prerequisites: FIS 160, FIS 170, FIS 181, and either one of FIS 261, FIS 372, or FIS 382</i>		

FIN 388 / HIS 298	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).		
<i>Prerequisites: FIN 235 or consent of instructor</i>		

Additional Comparative Arts courses:

AAD 250	Arts Administration I
AAD 251	Arts Administration II
AAD 252	Arts Administration III
CLA 110	The Art and Archaeology of Ancient Egypt
CLA 120	Classical Archaeology
CLA 205	Greek Art and Architecture
CLA 206	Early Christian and Byzantine Art
CLA 207	Early Roman Art
CLA 208	Art and Architecture of Imperial Rome
CLA 238	Greece, Land of the Gods
CLA 240	Archaeological Interpretation
CLA 365	Topics Archaeology I
CLA 366	Topics Archaeology II
PHI 346	Topics in Philosophy of Art
PHI 364	Topics in Postmodern Philosophy
REL 237	Film and Religion

History

Faculty

Gordon Barker,

B.A. (McGill), M.A., Ph.D. (William and Mary)
Associate Professor

Cristian Berco,

B.A. (Toronto), M.A., Ph.D. (Arizona); Professor
Chair of the Department

Jean L. Manore,

B.A. (Western), M.A., Ph.D. (Ottawa); Professor

David Webster,

B.A. (York), M.A., Ph.D. (British Columbia)
Associate Professor

Program Overview:

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 think critically, to devise strategies, to solve complex problems, to engage in research, and to present conclusions in an organized, reasoned and coherent way, both orally and in writing.

Graduates who have an ability to work across cultures and who are able to engage the world both as workers and as citizens are valued in today's increasingly globalized societies. The study of history is ideally suited to produce such individuals. The Department of History is keenly aware that the study of the past is not just about dates and events; it is primarily about developing in the individual student the ability to understand the world and to undertake reasoned, effective, well-informed action as a result. Our program is designed to enable you to accomplish these goals.

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. Our programs are constructed to allow students to acquire a deep historical knowledge and to develop both historical and general, transferable skills.

Areas of Specialization

The History Department offers introductory courses which cover the historical development of four main geographic areas: Canada, the United States, Europe and the Global South, often within a global context. In the senior years, courses reflect the research interests of its faculty, which include gender and family history, race relations, human rights, and Indigenous history, cultural theory, and the history of disease.

PROGRAMS AND REQUIREMENTS

Honours in History and Global Studies (61 credits)

HONHIS

An overall average of 70% is required to obtain an honours. The last 30 credits of the program must be completed at Bishop's.

The 61 credits required for the Honours degree must include:

Program Requirements <i>Honours</i>		
Calendar Category	Courses	Credits
Introductory Courses	2 out of:	6
	HIS 104	
	HIS 105*	
	HIS 108	
	HIS 109	
	* CEGEP students cannot take HIS 105 to fulfill this requirement	
Historiography and Methods	HIS 101	1
	HIS 200	3
	HIS 240	3
Global Courses	2 courses	6
National Histories	1 Canada Course	3
	1 US Course	3
	1 Europe Course	3
	1 Asia, Lat Am, or MENA Course	3
Thematic Courses	4 courses	12
Seminars	4 courses	12
Electives	2 HIS xxx	
Total	21 courses	61 credits

Major in History and Global Studies

(49 credits)

MAJHIS

A minimum of 24 credits must be completed at Bishop's, including:

Program Requirements <i>Major</i>		
Calendar Category	Courses	Credits
Introductory Courses	2 out of:	6
	HIS 104	
	HIS 105*	
	HIS 108	
	HIS 109	
	* CEGEP students cannot take HIS 105 to fulfill this requirement	
Historiography and Methods	HIS 101	1
	HIS 200	3
	HIS 240	3
Global Courses	2 courses	6
National Histories	1 Canada Course	3
	1 US Course	3
	1 Europe Course	3
	1 Asia, Lat Am, or MENA Course	3
Thematic Courses	3 courses	9
Seminars	2 courses	6
Electives	1 HIS xxx	3
Total	17 courses	49 credits

Minor in History (24 credits)

MINHIS

- 6 credits in 100-level courses
- A minimum of 12 credits in 200-level courses including 3 credits in each of the four geographic areas offered by the Department
- And two other history, cognate or cross-listed courses.

Indigenous Studies Minor

(24 credits)

MININD

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.

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 Indigenous and First Nations Peoples in Canada. The other mandatory course would be at the higher end of the student's scholastic learning. Students take either HIS 300 The Law of the Land: Indigenous Treaties with Canada 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	Indigenous and First Nations Peoples in Canada
ENG 123	Introduction to Indigenous Literatures in Canada

SIX (18 credits) from:

HIS 269	First Nations/Settler relations in Canada
HIS 255	History of Modern Southeast Asia
HIS 257	Latin America to 1800
HIS 279	The Middle East in the Twentieth Century
HIS 289	Transatlantic Slave Trade and the Atlantic World, 1500 to 1867
EDU 205	Education, Colonialism and De-Colonization
ENG 228	Introduction to Post-Colonial Literature
ENG 375	Colonial Narratives
ESG 266	Environmental Policy
ESG 339	The Canadian Arctic
ESG 340	The Circumpolar North
ESG 350	Environmental Justice
POL 236	Introduction to Middle East Politics
POL 315	Indigenous-Settler Intergovernmental Relations
SOC 207	Sociology of Indigenous-Settler Relations
SOC 235	Women and the Penal System
SOC 295	Social Inequalities
SOC 309	Advanced Seminar in Global Colonization and Decolonization

ONE of:

HIS 300	The Law of the Land: Indigenous Treaties in Canada
ENG 358	Approaches to Indigenous Literary Cultures 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.

List of Courses

Introductory Courses

HIS 104 The West in the World to 1750 3-3-0
An introduction to the major developments in Western history from the end of the ancient world to the eve of the French Revolution, focusing specifically on the interconnectedness of the West with the rest of the world. Topics will include the origins of Civilization in the Near East, classical Greece and Rome, medieval civilization and its breakdown in the Renaissance and the Reformation; European encounters with the Americas, and the Scientific Revolution and Enlightenment.

HIS 105 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, decolonization, economic crisis, the genocides of the 20th century in Europe and Asia, and the post-1945 East-West schism.

HIS 108 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 109 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 101 History Methods Lab 1-0-1
This lab introduces students to research methods in history through the use of tutorials and workshops. Topics to be covered include use of research databases, organization of research materials, reporting research results, and proper notation and referencing techniques.

HIS 200 Historical Theories and Methods 3-3-0
This course will survey the discipline of history as a branch of human knowledge. It consists of two main components. The first section will provide a survey of the development of the western historical consciousness through a detailed study of classical, medieval, modern and postmodern texts. The second component will focus on practical problems in historical methodology through a study of the key works in the various historical subdisciplines, and through projects focusing on applied research and analytical techniques.

HIS 240 History and Heritage 3-3-0
This course is designed to introduce students to the practice and presentation of history in public institutions and spaces, such as museums, archives and historic sites. It will explore practical applications of history, the history vs heritage debates and the theoretical underpinnings of public history including the use and creation of memory, ideas of performativity and voice, and identity studies. and analytical techniques.

Global Courses

HIS 241 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 245 Global History of Water 3-3-0
Water's importance to human societies is pervasive, yet as an historical agent, it is little studied. This course seeks to correct that by examining, within a global context, water systems such as oceans, rivers and lakes and how they have shaped and supported cultures, economies and political territories. It will examine water systems as foundational myths, as coursed for food and energy resources and as vehicles for imperialist and nationalist aspirations.

HIS 249 The Hispanic World in the 17th Century 3-3-0
By 1600, Spanish kings boasted that they ruled over an empire on which the sun never set referring to the vast territories they controlled in Europe, the Americas, and the Far East. Over the next century, internal demographic and economic crises as well as setbacks in war and trade would test the integrity of the empire. This course explores Hispanic societies and cultures, as they grappled with rapid change, unexpected pressures, and increasing global interconnectedness during the seventeenth century.

HIS 268 Changing the World: A Global History of Activism and Protest 3-3-0
For centuries people have tried to change the world in campaigns for human rights, peace, and the environment. How have they done so? When have they succeeded, and why? In this course, we examine activist movements in historical perspective, with a focus on the 20th century and attention to different parts of the world. Examples to be studied may include the anti-slavery movement, Indigenous rights campaigns, movements for decolonization, and 1960s protest movements on both sides of the Cold War divide.

HIS 285 The Pacific World 3-3-0
Contacts and exchanges across the Pacific Ocean go back for centuries. As with other bodies of water, exchanges within the Pacific allow the region to be considered as a "world" unto itself that was also in contact with other world regions. The Pacific World surveys economic, political and social currents within the Pacific region over the past five centuries, with the emphasis on the 20th century and on contacts between North America and Asia during this period.

HIS 289 The Transatlantic Slave Trade and the Atlantic World, 1500 to 1867 3-3-0
This lecture course examines the development of the transatlantic slave trade and its role in the integration of the Atlantic World, 1500 to 1867. Students will explore the growth of the trade, its impact on Africa, the rise of New World slavery in the Americas, its contribution to European and American expansion through to the second half of the 19th Century, and how the trade shaped social, cultural, economic, and racial development globally. Students will study the Transatlantic Trade's sources of slaves by age, gender, and country of origin, as well as recent documentation of disease, death, and slave rebellions on the Middle Passage. The abolition of the trade will be dealt with. Issues of memory and reconciliation will also be addressed.

HIS 292 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

National Histories and Area Surveys

Canada

HIS 207 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 211 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, bilingualism, Pierre Trudeau, and multiculturalism.

HIS 221 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 265 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.

United States**HIS 214 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 215 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 217 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 250 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.

Europe**HIS 232 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 237 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.

HIS 244 Europe from the Black Death to the Wars of Religion**3-3-0**

This course surveys early modern Europe, from the trauma of the Black Death in 1348 to the end of the Wars of Religion and the Peace of Westphalia in 1648. Over these three centuries, European society grappled with the slow loss of traditional medieval certainties in a rapidly changing world. Factors to explore include the Renaissance, the breakdown of the Christian unity, the encounter with the Americas, and the persecution of marginalized groups.

HIS 248 Tudor and Stuart Britain**3-3-0**

This course will focus on the transition of Britain from an island divided between two feudal polities and societies into the first recognizably modern state. It will deal extensively with the stresses, resistances and complexities involved in this process. Themes which will be particularly highlighted include the rise of the Tudor state in England, religious conflicts in both island kingdoms and their impact on social and political developments, mid-17th century wars and civil wars, the transition to a market economy, popular culture and popular beliefs, and the emergence of a unified Britain as a European and world power. These themes will be explored through a combination of lectures, texts and the extensive use of documentary sources.

HIS 252 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 253 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.

Asia, Latin America, Middle East and North Africa (MENA)**HIS 255 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 1940s, economic development after independence, the creation of regional organizations, human rights and environmental change.

HIS 256 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 257 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 279 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 283 A History of Chinese Civilization**3-3-0**

This course introduces China's history and cultural heritage from antiquity to 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 284 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.

Thematic Courses, Comparative Courses and Area Studies

HIS 206 The History of Night: An Exploration of the ‘Darker’ Side of Life 3-3-0

Half of our existence as human beings resides in the night, and while most of that time is spent sleeping, the night has been a dominant presence in our waking lives as well. Night-time has historically been associated with criminality, ghosts and goblins, and sexual deviance, but the night-sky has also represented contemplation of eternity and our beginnings. This course will explore ideas of night as an historical subject of inquiry. It will examine the various ways that night has been culturally constructed as an object of fear but also as a place of inspiration and wonder.

HIS 208 History of Torture 3-3-0

From the mutilated body as a form of public warning in the pre-modern world and the use of legal torments in medieval trials to the extra judicial application of torture in various modern contexts, this course examines the history of torture from a thematic perspective. In particular, the course will analyze the changing factors that shaped how societies across time and space resorted to such extreme measures. This will include torture in jurisprudence and practice, changing scientific understandings of the body and pain, the involvement of state and non-state actors in rationalizing and employing torture, and the sociocultural aspects informing its application, whether in the private or public realms.

HIS 227 The Stuff of History: An Introduction to Material Culture 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 228 Remembering Atrocities: Truth and Reconciliation in Global Context 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 throughout the world and the ways in which they are used to construct alternative national narratives in the search for usable pasts.

HIS 229 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 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 235 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 236 / 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 238 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 239 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 242 History of Animals: Prey, Predator and Partner 3-3-0

This course explores the various ways in which humans have interacted with animals throughout modern history. Human understandings of animals, whether as predators, prey or partners will be examined, as will changing societal attitudes over the treatment of animals, as reflected, for example, in the rise of animal welfare and animals rights organizations. While the focus will be on North America, examples from other continents may be included.

HIS 262 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 267 History of Sport in Canada 3-3-0

This course will examine the development of Indigenous, recreational, and professional sports in Canada. It will include examinations of specific themes within sports history such as gender, race and colonialism, and it will examine sport’s contributions to the creation of national identities. Additionally, it will provide an historical view of specific contemporary issues like violence and drug use in sports, and its use as an agent of international diplomacy.

HIS 269 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 275 Digital History 3-3-0

Digital history uses computers and other tools to analyze and present historical research. In ways that relate to current issues. This is a skills course on how to digitize and analyze textual and visual information; hare findings online through web sites, open access publishing and other methods; and apply historical methods to online information. No technological knowledge is required to enrol, but curiosity and a passion for telling stories digitally is an asset!

HIS 288 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 290 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 includeIndi 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.

HIS 291 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 293 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 294 The Age of Imperialism, 1870-1914 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 295 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.

Cross listed as POL 277

HIS 296 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 297 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 298 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).

Cross listed as FIN 388

HIS 299 Special Topics in History 3-3-0

A course that addresses the historical background of current headlines or special topics of contemporary interest for both History majors and other interested students. Topics vary from year to year and explore different regions, time periods, and methods.

Seminars

Pre-requisite for all 300-level History seminars is HIS 200 or permission of the instructor

HIS 300 The Law of the Land: Indigenous Treaties with Canada 3-3-0

Foundational to Canada's geography, economy, and politics are the numerous treaties negotiated between it and the Indigenous Peoples who lived and live within its borders. Central to the treatise are differing interpretations as to who owns or controls indigenous territories and who owns or controls the resources within them. This course, using settler documents, oral accounts, government legislation and court decisions, from the late 1700s to the present, will examine the historic understandings of the treatise and how they represent the "law of the land" within this country.

HIS 301 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 302 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 306 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 307 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 338 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 353 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 354 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 393 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 394 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 395 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 396 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 397 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 398 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.

Internships

HIS 391 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.

Prerequisite: Permission of the public history coordinator.

HIS 392 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.

Prerequisite: Permission from the instructor.

Honours Project

HIS 490 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 491 Honours Thesis

3-0-0

Continuation of HIS 490. 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 490

Independent Studies

HIS 286 Independent Studies for U2 Students

HIS 287 Independent Studies for U2 Students

HIS 386 Independent Studies for U3 Students

HIS 387 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 342, PSY 443.

Religion: REL 257.

Sociology: SOC 207.

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.

College of Liberal Arts

Faculty

Jenn Cianca,

B.A. (Bishop's), M.A., Ph.D. (Toronto);
Associate Professor,
Chair of the Department

Bruce Gilbert,

B.A.(Toronto), M.A.(McGill),
Ph.D.(Penn.State); Full Professor
Coordinator for the Minor in
Social Justice and Citizenship

Program Overview

The Bishop's University Liberal Arts Program offers a dynamic, interdisciplinary major 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 210–218), each of which engages, in an interdisciplinary and historical way, with a key theme in the history of the human condition. 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) or any LIB 300-level course. Liberal Arts majors also complete a series of requirements from other departments (see below), for a total of 63 credits. 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.

Programs

Liberal Arts Honours Degree (69 credits)

HONLIB

Liberal Arts students may opt to complete an Honours Degree. In addition to fulfilling the normal requirements for a Major (see below), 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 400 Honours Thesis I

3-3-0

Each student researches, writes, and publically defends a comprehensive thesis proposal under the supervision of at least two faculty members, one of whom must be a member of the Liberal Arts Program faculty. Students must receive a grade of 75% or higher in this course in order to be permitted to register for LIB 401.

LIB 401 Honours Thesis II

3-3-0

Based on the proposal completed in LIB 400, students draft, revise, and defend an honours thesis, as examined by all members of the Liberal Arts Program.

Prerequisite: LIB 400

Liberal Arts Major (63 credits) MAJLIB

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 100 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 four 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
LIB 211	Empire and Its Enemies
LIB 212	In Search of Justice
LIB 213	The Use and Abuse of Beauty
LIB 214	Ecological Crisis and the Struggle for Environmental Justice
LIB 215	Ecstasy and Excess
LIB 216/REL 208	The Divine and Ultimate Concern
LIB 217	Space, Place & the Human Experience
LIB 218	The History and Philosophy of Science

4. Graduating Year Seminar

LIB 300 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.

6. Social Sciences Requirement

Any two Social Science courses (6 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).

Minor in Social Justice and Citizenship (24 credits) MINSJC

A healthy democracy requires that its citizens have the insight and skills to freely govern themselves. The university is therefore a vital institution to democracy. Accordingly, Bishop's University is committed to help its students learn "to practice the respectful and informed dialogue that sustains democracy [and] to exercise the rights and responsibilities of good citizenship."

While each department and program in the university affects this principle in its own way, the Minor In Social Justice and Citizenship takes this goal as its explicit aim. Each student enrolled in this minor completes eight courses (24 credits) made up of a mandatory theory course (LIB 212 or LIB 217), an internship of either one or two semesters (LIB222 and LIB223) and a further five or six courses chosen from the elective list below. In LIB 212, "In Search of Justice," students seek to understand the nature of human freedom, the institutions and cultural practices that seek to cultivate it, and the forms of power and manipulation that threaten and undermine it. In LIB217, "Space, Place, and the Human Experience," students explore questions of social justice inside a spatial framework, in an attempt to understand how place making and spatial structures play into the formation of society & culture. In LIB 222 and LIB223, "Citizenship and Democratic Practice," students not only learn about the agents of democratic practice in civil society (individuals, artistic and cultural communities, social movements, NGOs, churches, etc) but are also required to participate in supervised internships in local and regional community and civil society organizations. Students in the Minor are also encouraged to do at least one of the international courses affiliated with the Minor: LIB 370 Social Movements and Social Change in Brazil, LIB371 New Orleans: Art, Activism and Culture before and after Katrina, and SLP399 Praxis Malawi.

List of Courses

Liberal Arts Foundation Courses

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 it “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 Ecological Crisis and the Struggle for Environmental Justice 3-3-0
 Global warming, mass extinction and runaway pollution by toxic waste, plastics and other contaminants are only the most widely publicized aspects of what scientists agree is an ecological crisis that affects everyone and everything on the Earth. Paradoxically, nature and wilderness are not only necessary conditions for human well-being, but also have been amongst the greatest sources of our spiritual and artistic inspiration for centuries. Given that new generations will play a decisive role in addressing this crisis, this course will explore international dimensions of the historical, philosophical and cultural background of various forms of the human relationship with nature, as well as examine some of the theories (agro-ecology, eco-feminism, deep ecology, emergence, etc.) and kinds of social movement organizing (Greenpeace, 350.org, Leap, etc.) that reply to the ecological crisis. The course will also introduce certain aspects of the experience and struggle of Indigenous peoples (e.g. Idle No More, Dakota Access, socio-environmental rights in Brazil, etc.), including of the Abenaki First Nation, upon whose unceded land Bishop’s University is built.

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.

LIB 218 The History and Philosophy of Science 3-3-0
 Modern science has given us an unprecedented understanding of nature - and with it, the power to transform our natural environment irrevocably. This interdisciplinary course will explore some key themes in the history and philosophy of science: the origins and evolution of Modern science; its roots in pre-Modern philosophy of nature; Its flowering in the Scientific Revolution; the Modern era, in which science and scientific method is often taken for granted as the authoritative paradigm for all knowledge; the enormous contribution of science to society, economy and culture; as well as some Important criticisms of the extent and character of scientific exploration of nature and human beings.

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 222 Citizenship and Democratic Practice I 3-3-0
 Students learn not only the role and importance of civil society organizations, such as social movements, community groups, NGOs, churches and so on, but also commit themselves to an ongoing supervised internship in one or more of these organizations in Lennoxville, Sherbrooke or the wider Eastern Townships. At least one or both of these internship courses (depending on the demands of each internship) is required for the Minor in Social Justice and Citizenship.

LIB 223 Citizenship and Democratic Practice II 3-3-0
 Students learn not only the role and importance of civil society organizations, such as social movements, community groups, NGOs, churches and so on, but also commit themselves to an ongoing supervised internship in one or more of these organizations in Lennoxville, Sherbrooke or the wider Eastern Townships. At least one or both of these internship courses (depending on the demands of each internship) is required for the Minor in Social Justice and Citizenship.

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. Venice surreal setting 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 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 assignments in Italian and participate in certain additional activities in Italian.

LIB 289 / GER 289 History and Memory in Berlin 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

LIB 290 / GER 290 (De) constructing Identity in Vienna 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, literary walks, and cultural immersion.

No prerequisite

GER292/LIB292 The Problem of Education 3-3-0

For Madame de Staël, a French contemporary of Goethe's, Germany was das Land der Dichter und Denker, whereas for many of our contemporaries, Germany is but the land of National-Socialism. How could the people who gave the world the humanistic ideal of Bildung also be the people who devised concentration camps and the final solution? It is impossible to avoid this question when engaging with German Studies. This course will examine the pedagogical intent, philosophy of education and critique of German education present in the works of some of the most important German writers from the Enlightenment to the post-war period. By means of discussions of fiction and non-fiction, we will explore the German discourse on education, from the early bourgeois ideal of Bildung (Lessing, Humboldt, Goethe, Schiller) to Nietzsche's critique of educational institutions, from Musil's depiction of the joyless life of a Gymnasium to later explorations (by Brecht, E. Mann, Arendt – but also in films by Riefenstahl, Schlöndorff and Haneke) of the perversion of the ideal of education in 20th century Germany, namely under National-Socialism.

GER293/LIB293 In Sickness and in Health 3-3-0

This course will explore representations of sickness and health in the modern Western cultural tradition. We will read literary masterpieces from modern Russian, Scandinavian and German literature – from Gogol (Diary of a Madman), Tolstoy (The Death of Ivan Illich), Hamsun (Hunger), Ibsen (A Doll's House), Schnitzler (Fräulein Else), Mann (Tristan) and Kafka (The Metamorphosis). Our discussions will be informed and enriched by canonical texts on this theme by Nietzsche (The Case of Wagner), Freud (on Dora) and Sontag (Illness as Metaphor), amongst others, and by works from the visual arts dealing with sickness and health. We will observe how the suffering body and soul experiences sickness in solitude and shame, as an unacceptable failure. Inspired by the idea that a diagnosis is a gnosis, we will also explore how the introspection which arises from that illness and solitude leads one to creation – that is to story-telling, as one wishes to make sense out of that which seems senseless. As the title of the course suggests, we will also reflect upon the romantic and erotic dimension of illness.

GER294/LIB294 On Fascism 3-3-0

More than ever, it is crucial for all of us, as citizens, to be able to define and recognize fascism. In this course, we will study fascism by concentrating on the German Nazi movement and regime and its leader, Adolf Hitler. We will look at the roots of fascism, which was born in the aftermaths of WWI. After a brief survey of Italian fascism, we will analyze the rise of National-Socialism in Germany in the 1920s. We will explore the historical, political and economic conditions that led to the establishment of the III. Reich in 1933. We will discuss the role and function of violence and war – and of WWII – for the fascists. We will discuss a wide range of issues, from the cult of the Führer to Nazi propaganda, from anti-Semitism to the Final Solution, from Nazi trials to memorial culture in present-day Germany.

GER295/LIB295 Wagner's Ring 3-3-0

This course will introduce students not only to one of the world's most celebrated musical and literary works, Richard Wagner's opera The Ring of the Nibelung, but also to the world of Germanic mythology and German history in the 19th and 20th centuries. We will read, listen to, and discuss Wagner's masterpiece against the backdrop of his theoretical writings on music, art, mythology, history and politics. We will also look at Wagner's legacy – from Nietzsche to Hitler – and at the uses and abuses of Wagner in film and pop culture.

GER296/LIB296 Goethe's Faust 3-3-0

In this course, students will read THE masterpiece of German literature: Goethe's Faust, in Walter Kaufmann's celebrated translation. We will read all of part I and excerpts of part II. We will look at Goethe's sources – from the early Historia von Dr. Johann Fausten (based on a true story – that of a magician) to travelling puppet shows about Faust which Goethe enjoyed as a child. This discussion of sources will enable us to see just how modern Goethe's Faust is – in its (for the time) subversive depictions of God, the devil, the quest for knowledge and the pleasures of the flesh. We will also examine how the story of Faust never ceased to inspire artists who created countless variations on the theme – from Gounod's opera to Murnau's expressionist film, from Mann's novel Doktor Faustus to Kurosawa's film Ikiru, to name but a few.

LIB 303 On the Road Again: Pilgrimage in Theory and Practice 3-3-0

This course will examine pilgrimage as embodied experience, with a special focus on contemporary pilgrimage. Cross-cultural approaches and historical context will be key to understanding the current fascination with walking as transformative practice. Theories of identity, community, and belonging will also be discussed.

Students will have an opportunity to participate in a short pilgrimage.

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 371 New Orleans: Art, Activism and Culture before and after Katrina 3-3-0

Students in this course prepare for a March study trip to New Orleans by researching the history, politics and culture of this extraordinary city. There will be a particular focus on the aftermath of the Hurricane Katrina disaster, including activist and social movement organizing in response to the destruction of whole neighborhoods. On the basis of their research and experiences in New Orleans, each student will write and submit a comprehensive research paper at the end of the semester.

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 so 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 text 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 387 Exuberant Beauty: The Poetry, Visual Art and Philosophy of William Blake 3-3-0

For William Blake beauty is not the delicate, the calm or the harmonious, but the exuberant. For William Blake the pathway to wisdom is not prudence or fear, but excess. This extraordinary poet, visual artist and philosopher created a new world of culture in which humans are fulfilled only in the creative imagination. His poetry, engravings and paintings are unique and brilliant and his philosophy stakes revolutionary claims that are usually credited to later thinkers like Hegel and Nietzsche. In this course we will study Blake's works with an eye to understanding his philosophical originality. We will follow the great literary critic Northrop Frye's advice to "Read Blake or go to hell."

Liberal Arts Independent Studies

LIB 230 Independent Study I 3-3-0
Students pursue a course of directed, independent study on an interdisciplinary theme under the supervision of a faculty member.

LIB 231 Independent Study II 3-3-0
Students pursue a course of directed, independent study on an interdisciplinary theme under the supervision of a faculty member.

LIB 232 Independent Study III 3-3-0
Students pursue a course of directed, independent study on an interdisciplinary theme under the supervision of a faculty member.

LIB 233 Independent Study IV 3-3-0
Students pursue a course of directed, independent study on an interdisciplinary theme under the supervision of a faculty member.

Elective Course List:

Students must take any five or six courses from this list, albeit no more than three from any one department (depending on their internship).

EDU 305	Multicultural Education
ENG 239	Feminist Literary Theory
ENG 342	Romanticism and Revolution
ESG 224	Human Impact on the Environment
ESG 248	Geography of Food
ESG 266	Environmental Policy
ESG 268	Global Environmental Change
ESG 350	Environmental Justice
ESG 366	Ethical Perspectives on Environmental Problems
HIS 108	A Global History of Indigenous Peoples
HIS 217	The United States Since 1945
HIS 269	First Nations/Settler Relations in Canada
LIB 211	Empire and Its Enemies
LIB 214	Human Will and Nature
LIB 370	Social Movements and Social Change In Brazil
LIB 371	New Orleans: Art, Activism and Culture before and after Katrina
PHI 100	On the Way to the Good Life
PHI 104	The Hopes and Conflicts of Social and Political Life
PHI 349	Topics in Feminist Philosophy
PHI 324	The Philosophy and Politics of Karl Marx
PHI340	Topics in Ethics
PHI 342	Seminar in Social and Political Philosophy
PHI 366	Critical Theory
REL 200	Politics and Religion
SOC 207	Sociology of Indigenous-Settler Relations
SOC 208	Criminology
SOC 235	Women and Penal System
SOC 250	Social movements
SOC 260	Community
SOC 292	Social Policy
SOC 298	Social Problems
SOC 309	Advanced Seminar in global Colonization and Decolonization
SOC 340	Women: Theory and Ideology
SOC 396	Post-Colonial Theory
WOM 101	Introduction to Women's Studies
WOM 201	Women and Feminism in Canada
WOM 305	Women and Feminism: Selected Topics
SLP 399	Situated Learning and Praxis (Praxis Malawi)

Modern Languages, Literatures and Cultures

Faculty

Modern Languages, Literatures and Cultures

Sandra Ward,
B.A., M.A. (Bishop's); Senior Instructor
ESL Coordinator

German Studies

Sophie Boyer,
B.A., M.A., Ph.D. (McGill); Professor

Hispanic Studies

Gilberto D'Escoubet,
B.A., M.A. (U de Montréal),
Senior Instructor

Jordan Tronsgard,
B.A., M.A. (Calgary), Ph.D. (Ottawa)
Associate Professor
Chair of the Department

Japanese Studies

Katsunori Hizawa,
B.A. (Waseda), M.A. (Illinois);
Special Instructor

Program Overview

The Department of Modern Languages, Literatures, and Cultures offers an Honours program in Hispanic Studies, Majors in Modern Languages and Hispanic Studies, International Major in German, as well as Concentrations/Minors in German Studies, Hispanic Studies, and Japanese Studies (International Concentration).

Major in Modern Languages (60 credits)

MAJMLA

This major is equally divided between two language Concentrations (30/30), which will be specified on the student's final transcript. The languages available for Concentrations are German, Japanese and Spanish, as well as English Language Studies and French (offered by the Département des études françaises et québécoises). Students may choose one of their Concentrations in English *or* French, but completing Concentrations in English *and* French is not permitted for the Major in Modern Languages. The requirements and courses for the Concentrations within the Major in Modern Languages are listed under each specific language.

* Please note:

1) MLA 101 is a graduation requirement for all Majors in the MLA department and will normally be taken in the first year of studies. The following students are exempt from this requirement: Students with an Honours in Hispanic Studies, students taking

the Major in Hispanic Studies on a part-time basis, students with more than one major. **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 their two languages by the end of their first year.

3) Students enrolled in all Majors in the MLA department must successfully complete the Information Retrieval and Evaluation Skills for the Humanities Lab (ILT 102). This one-credit laboratory course should be taken in the first or second year of studies.

4) Unless otherwise stated, all courses will be taught in the language specified in the course title.

Adjunct Concentration in Modern Languages (30 credits)

CONAGS, CONAHS, CONAJS and CONAFS

A 10-course concentration in a single language: German Studies, Hispanic 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.

Certificate in Modern Languages (30 credits) CONMLA

The **Certificate** is designed to provide part-time students with a working knowledge of at least two of the modern languages taught at Bishop's University: French, German, Japanese, and/or Spanish.

Students must 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.

Modern Languages Course

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

German Studies

Major in Modern Languages with concentration in German Studies (30 credits for concentration) MAJMLA + CONGER

The German Studies Concentration in the Major in Modern Languages consists of 30 credits with a minimum of 6 credits in literature, film and civilization courses.

International Major in German Studies (45 credits) MAJGIN

The International Major in German Studies requires the completion of 42 credits in German and MLA 101. Among the German credits, at least 12 must be drawn from courses in literature, film and 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 (24 credits) MINGER

Please note:

- (1) Majors in Modern Languages with the German Studies Concentrations, adjunct concentration students, and minors in German Studies must take GER 203 Intermediate German: Topics and Texts I concurrently with GER 201 Intermediate German Language I, and GER 204 Intermediate German: Topics and Texts II concurrently with GER 202 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.

List of German Courses

Language Courses

GER 100 Introductory German Language I-II: Intensive Course 6-6-2

This course covers the contents of GER 101 and GER 102 in one semester.
No prerequisite

GER 101 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 102 Introductory German Language II 3-3-1

Continuation of GER 101. 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 101 or equivalent

GER 201 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 100 or GER 102 or equivalent

GER 202 Intermediate German Language II 3-3-1

Continuation of GER 201. Further emphasis on active vocabulary building and grammar review. Language laboratory exercises are included.

Prerequisite: GER 201 or equivalent

GER 203 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 100 or GER 102 or equivalent

GER 204 Intermediate German: Topics and Texts II 3-3-0

Continuation of GER 203. Further emphasis on written assignments and speaking activities such as small group discussions and oral reports.

Prerequisites: GER 201 and GER 203 or equivalent

GER 301 Advanced German Language: Reading and Translating German I 3-3-1

This practical course will introduce students to reading and translating German. We will read a contemporary novel in German. We will also practice translating shorter German texts of different genres into English (students may be allowed to translate into French). This course will enable students to enrich their vocabulary, review German grammar, familiarize themselves with translation from German and develop their cultural competency with regard to the German-speaking world. Language laboratory exercises are included.

Prerequisites: GER 202 and GER 204 or equivalent

GER 302 Advanced German Language: Reading and Translating German II 3-3-1

Continuation of GER 301. Language laboratory exercises are included.

Prerequisite: GER 301 or equivalent

GER 303 Advanced German Language: Language and Culture I 3-3-1

This course provides students with a review of German grammar as well as an overview of German history and culture. This course will enable students to review and practice grammatical structures previously learned and to develop their cultural competency by engaging with key developments within German-speaking cultures, including aspects of history, philosophy, literature, music and visual arts. Language laboratory exercises are included.

Prerequisites: GER 202 and 204 or equivalent

GER 304 Advanced German Language: Language and Culture II 3-3-1

Continuation of GER 303. Language laboratory exercises are included.

Prerequisite: GER 303 or equivalent

GER 305 Advanced German Language: Language, Literature and Film I 3-3-1

This course provides students with a review of German grammar as well as an overview of German literature and German cinema. This course will enable students to review and practice grammatical structures previously learned and to acquaint themselves with key German-language texts and films. Language laboratory exercises are included.

Prerequisites: GER 202 and GER 204 or equivalent

GER 306 Advanced German Language: Language, Literature and Film II 3-3-1

Continuation of GER 305. Language laboratory exercises are included.

Prerequisite: GER 305 or equivalent

Literature, Cinema, and Civilization Courses

GER 235 Gods and Heroes, Devils and Witches: Introduction to German Literature and Culture 3-3-0

This course provides students with an introduction to German literature and culture, from the Middle Ages to the end of the 19th century. The selected texts depict popular characters that have shaped, inspired and influenced the German national narrative. Students will get acquainted with Germanic mythology, the story of Dr. Faustus, popular fairy tales and operas by Richard Wagner, amongst others. It will examine a representative selection of German literary masterpieces from various periods and genres.

No prerequisite

GER 250 German History in Recent German Films 3-3-0

This course will explore how the German past (fascism, terrorism, communism) is depicted in recent German films. Students will get acquainted with key events of German history in the 20th century, with key developments in recent German cinema and with Germany's national narrative at the beginning of the 21st century. This involves viewing and critiquing films in class.

No prerequisite

GER 270 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 271 Rebels with a Cause: East German Cinema 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 281 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 282 19th Century German Literature: The Age of Revolution 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. Literary movements to be studied are Young Germany, Realism and Naturalism. Authors may include Heine, Büchner, Fontane, Storm, Hauptmann, Wagner and Nietzsche.

No prerequisite

GER 289 / LIB 289 History and Memory in Berlin 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 290 / LIB 290 (De) constructing Identity in Vienna 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, literary walks, and cultural immersion.

No prerequisite

GER 291 War, Sex, and Crime: Weimar Germany's Culture of Crisis 3-3-0

This course explores one of the most troubling, yet creative periods within German culture: the interwar years (1918-1939). Its aim is to provide students with a historical and aesthetic understanding of Weimar's artistic production, focusing mainly on literature. Attention will first be given to the traumatic experience of World War I and the ensuing father-son conflict. We will then turn to the rise of Berlin as metropolis and its many outsider figures, most importantly the criminal. A variety of works will be examined in which the criminal, and particularly the sex offender, both mirrors modernity's alienated individual and embodies the porous boundaries between the "normal" and the "abnormal". Works to be studied may include: Remarque's *All Quiet on the Western Front*, Ungar's *The Maimed*, Kafka's *The Judgment*, Döblin's *Berlin Alexanderplatz*, Kolmar's *A Jewish Mother from Berlin*, Lang's *M*.

No prerequisite

GER292/LIB292 The Problem of Education 3-3-0

For Madame de Staël, a French contemporary of Goethe's, Germany was das Land der Dichter und Denker, whereas for many of our contemporaries, Germany is but the land of National-Socialism. How could the people who gave the world the humanistic ideal of Bildung also be the people who devised concentration camps and the final solution? It is impossible to avoid this question when engaging with German Studies. This course will examine the pedagogical intent, philosophy of education and critique of German education present in the works of some of the most important German writers from the Enlightenment to the post-war period.

By means of discussions of fiction and non-fiction, we will explore the German discourse on education, from the early bourgeois ideal of Bildung (Lessing, Humboldt, Goethe, Schiller) to Nietzsche's critique of educational institutions, from Musil's depiction of the joyless life of a Gymnasium to later explorations (by Brecht, E. Mann, Arendt – but also in films by Riefenstahl, Schlöndorff and Haneke) of the perversion of the ideal of education in 20th century Germany, namely under National-Socialism.

GER293/LIB293 In Sickness and in Health 3-3-0

This course will explore representations of sickness and health in the modern Western cultural tradition. We will read literary masterpieces from modern Russian, Scandinavian and German literature – from Gogol (Diary of a Madman), Tolstoy (The Death of Ivan Illich), Hamsun (Hunger), Ibsen (A Doll's House), Schnitzler (Fräulein Else), Mann (Tristan) and Kafka (The Metamorphosis). Our discussions will be informed and enriched by canonical texts on this theme by Nietzsche (The Case of Wagner), Freud (on Dora) and Sontag (Illness as Metaphor), amongst others, and by works from the visual arts dealing with sickness and health. We will observe how the suffering body and soul experiences sickness in solitude and shame, as an unacceptable failure. Inspired by the idea that a diagnosis is a gnosis, we will also explore how the introspection which arises from that illness and solitude leads one to creation – that is to story-telling, as one wishes to make sense out of that which seems senseless. As the title of the course suggests, we will also reflect upon the romantic and erotic dimension of illness.

GER294/LIB294 On Fascism 3-3-0

More than ever, it is crucial for all of us, as citizens, to be able to define and recognize fascism. In this course, we will study fascism by concentrating on the German Nazi movement and regime and its leader, Adolf Hitler. We will look at the roots of fascism, which was born in the aftermaths of WWI. After a brief survey of Italian fascism, we will analyze the rise of National-Socialism in Germany in the 1920s. We will explore the historical, political and economic conditions that led to the establishment of the III. Reich in 1933. We will discuss the role and function of violence and war – and of WWII – for the fascists. We will discuss a wide range of issues, from the cult of the Führer to Nazi propaganda, from anti-Semitism to the Final Solution, from Nazi trials to memorial culture in present-day Germany.

GER295/LIB295 Wagner's Ring 3-3-0

This course will introduce students not only to one of the world's most celebrated musical and literary works, Richard Wagner's opera The Ring of the Nibelung, but also to the world of Germanic mythology and German history in the 19th and 20th centuries. We will read, listen to, and discuss Wagner's masterpiece against the backdrop of his theoretical writings on music, art, mythology, history and politics. We will also look at Wagner's legacy – from Nietzsche to Hitler – and at the uses and abuses of Wagner in film and pop culture.

GER296/LIB296 Goethe's Faust 3-3-0

In this course, students will read THE masterpiece of German literature: Goethe's Faust, in Walter Kaufmann's celebrated translation. We will read all of part I and excerpts of part II. We will look at Goethe's sources – from the early Historia von Dr. Johann Fausten (based on a true story – that of a magician) to travelling puppet shows about Faust which Goethe enjoyed as a child. This discussion of sources will enable us to see just how modern Goethe's Faust is – in its (for the time) subversive depictions of God, the devil, the quest for knowledge and the pleasures of the flesh. We will also examine how the story of Faust never ceased to inspire artists who created countless variations on the theme – from Gounod's opera to Murnau's expressionist film, from Mann's novel Doktor Faustus to Kurosawa's film Ikiru, to name but a few.

Independent Study Courses

GER 315 Independent Study I 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 316 Independent Study II 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 317 Independent Study III 3-0-0

Advanced level projects within the area of German language, literature or civilization.

Prerequisite: Permission of Instructor

GER 318 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 an Honours or 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:

- 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.
- Independent Studies courses are offered only to students with high academic standing and in consultation with the professor.
- 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

Students who wish to participate in the International Exchange Program in a Spanish-speaking country and who require proof of Spanish competency to do so must complete SPA 202 and/or SPA 204 or have a DELE (Diploma de Español Lengua Extranjera) certificate at the B2 level. Under no circumstances can the Hispanic Studies Section certify the level of proficiency of students who have not completed these requirements.

Honours in Hispanic Studies

(60 credits)

HONHSP

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

(45 credits*)

MAJHSP

Hispanic Studies Majors are required to complete 42 credits in Spanish and MLA 101. *Students with a Major in Hispanic Studies and another full major and students who are pursuing Hispanic Studies Major on a part-time basis are exempt from the MLA 101 requirement. *It is highly recommended that students at the 200-level also complete SPA 203 and 204.*

SPA 101	Spanish Language I
SPA 102	Spanish Language II
SPA 201	Spanish Language III
SPA 202	Spanish Language IV
SPA 301	Advanced Spanish: Topics and Texts I
SPA 302	Advanced Spanish: Topics and Texts II
SPA 325	Advanced Spanish Grammar

Any two of the following:

SPA 331	Introduction to Peninsular Literature
SPA 332	Introduction to Spanish American Literature
SPA 342	Seminar in Literature

Plus at least three additional 300 or 400 level SPA courses as part of the 42 SPA credits required

Major in Modern Languages with concentration in Hispanic Studies

(30 credits for concentration)

MAJMLA+CONHSP

It is highly recommended that students at the 200-level also complete SPA 203 and 204.

SPA 101	Spanish Language I
SPA 102	Spanish Language II
SPA 201	Spanish Language III
SPA 202	Spanish Language IV
SPA 301	Advanced Spanish: Topics and Texts 1 AND
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

Plus at least one additional 300 or 400 level SPA courses as part of the 24 SPA credits required

Double Major French – Spanish and Education (24 credits in Spanish + 24 credits in French)

MAJEFS

SPA 203	Language and Cultures in Practice I
SPA 204	Language and Cultures in Practice II
SPA 301	Advanced Spanish: Topics and Texts I
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 at least one additional 300 or 400 level SPA course

Minor Hispanic Studies (24 credits)

MINHSP

It is highly recommended that students at the 200-level also complete SPA 203 and 204.

SPA 101	Spanish Language I
SPA 102	Spanish Language II
SPA 201	Spanish Language III
SPA 202	Spanish Language IV
SPA 301	Advanced Spanish: Topics and Texts I OR
SPA 302	Advanced Spanish : Topics and Texts II

Plus at least one additional 300 or 400 level SPA courses as part of the 24 SPA credits required

Certificate in Hispanic Studies (30 credits)

CONHSP

SPA 101	Spanish Language I
SPA 102	Spanish Language II
SPA 201	Spanish Language III AND
SPA 203	Language and Cultures in Practice I
SPA 202	Spanish Language IV AND
SPA 204	Language and Cultures in Practice II
SPA 301	Advanced Spanish Language: Topics and Texts I OR
SPA 302	Advanced Spanish Language: Topics and Texts II

And three additional 300 level SPA courses

List of Spanish Courses

Language Courses

SPA 100 Spanish Language I-II: Intensive Course 6-6-0
The course covers the contents of SPA 101 and SPA 102 in one semester. Language audio exercises are included.
No prerequisite

SPA 101 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 102 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 101 or permission from the instructor

SPA 120 Spanish Language II-III Intensive 3-3-0
This course covers the contents of SPA 102 and SPA 201 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 203 concurrently. Upon completion of SPA 120, students will be allowed to take SPA 202 and SPA 204. Language audio exercises are included.
Prerequisite: Permission from the instructor

SPA 200 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 102 or permission from the instructor

SPA 201 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 100 or SPA 102 or permission from the instructor

SPA 202 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 201 or SPA 120 or permission from the instructor

SPA 203 Language and Cultures in Practice I 3-3-0
This course is designed to complement the Intermediate Spanish Language courses through the study of Hispanic Cultures. 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 100 or SPA 102 or permission from the instructor

SPA 204 Language and Cultures in Practice II 3-3-0
This course is a continuation of Language and Cultures in Practice I. Listening and reading comprehension will be improved through regular listening activities based on authentic texts and through the close reading of a novel. 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 203 or permission from the instructor

SPA 301 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 or SPA 204 or permission from the instructor

SPA 302 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 or SPA 204 or permission from the instructor

Civilization and Culture

SPA 311 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 202 or SPA 204 or permission from the instructor

SPA 313 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 202 or SPA 204 or permission from the instructor

SPA 314 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 202 or SPA 204 or permission from the instructor

SPA 317 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 202 or SPA 204 or permission from the instructor

SPA 318 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 202 or SPA 204 or permission from the instructor

SPA 319 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 202 or SPA 204 or permission from the instructor

SPA 320 Hispanic Cinemas and Social Engagement 3-3-2

This course explores the representation of social and political engagement in and by Spanish-language cinema, with particular emphasis on films from Latin America. The purpose is twofold: to introduce students to notable films and filmmakers in Spanish, and to approach issues of social and political conflict in the Hispanic world through the filmic lens. The topics covered will be both universal and particular to Hispanic cultures and will include, among others: indigenous peoples, dictatorships, globalization, and women's rights.

Prerequisite: SPA 202 or SPA 204 or permission from the instructor

SPA 336 Spanish Conquest and Colonial Encounters 3-3-0

This course is a survey of major works from the Spanish Conquest and Colonial periods in the Americas (between 1492 and 1825). Students will analyze and interpret primary source material such as chronicles, essays, epistolary exchanges, and poetry contextualized vis-à-vis the medieval and Renaissance values of Imperial Spain. Students will also study secondary criticism and film in order to contextualize the themes presented in the primary texts. Authors may include Cabeza de Vaca, Bartolomé de las Casas, Colón, Cortés, Díaz del Castillo, Lope de Aguirre, El Inca Garcilaso de la Vega, Guaman Poma de Ayala, Sor Juana Inés de la Cruz. The course will be taught in Spanish.

Prerequisite: SPA 325 or permission from the instructor

Literature

SPA 330 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 331 or SPA 332 or permission from the instructor

SPA 331 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 Gaité, Ana María 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 allow concurrent or permission from the instructor

SPA 332 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 allow concurrent or permission from the instructor

SPA 333 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 García 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 allow concurrent or permission from the instructor

SPA 335 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, to 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 allow concurrent or permission from the instructor

SPA 435 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 436 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 321 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 202 or SPA 204 or permission from the instructor

SPA 325 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 202 or SPA 204, or SPA 203 allow concurrent, or permission from the instructor

SPA 326 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 202 or SPA 204 or permission from the instructor

SPA 329 Introduction to Hispanic Linguistics 3-3-0

This course introduces students to the study of the main areas of Hispanic linguistics (morphology, syntax, and semantics). General theories on the formation of languages and on language change will be examined. Attention will also be given to the distinct geographical and sociological varieties of contemporary Spanish.

Seminars

SPA 342 Seminar in Literature 3-3-0
Research and individual projects within an area of Peninsular or Spanish American Literature.
Prerequisite: SPA 331 or SPA 332 or permission from the instructor

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 331 and 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 315 Independent Studies I 3-0-0
Individual study projects within an area of Spanish linguistics, literature or civilization.
Prerequisite: SPA 331 or SPA 332 or SPA 325 or SPA 326

SPA 316 Independent Studies II 3-0-0
Individual study projects within an area of Spanish linguistics, literature or civilization.
Prerequisite: SPA 331 or SPA 332 or SPA 325 or SPA 326

Italian Studies

There are no program offerings in Italian. When offered, ITA courses may be taken as electives or to satisfy language requirements for other programs.

ITA 100 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 101 and ITA 102 in one semester.

ITA 101 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 102 Introductory Italian Language II 3-3-0
Continuation of ITA 101. Intensive practice in oral and written Italian.
Prerequisite: ITA 101 or equivalent

ITA 201 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 100 or ITA 102 or equivalent or permission of instructor

ITA 202 Intermediate Italian II 3-3-0
Continuation of ITA 201.
Prerequisite: ITA 201 or equivalent or permission of instructor

ITA 235 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 will be taught in English.

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.

ITA 301 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 202 and ITA 204 or equivalent

ITA 302 Advanced Italian II 3-3-0
Continuation of ITA 301.
Prerequisite: ITA 301 or equivalent

ITA 309 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. This course will be taught in English.

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.

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 text had on future visual and performative arts, literature and music. This course will be taught in English.

Japanese Studies

Modern Languages Major: Japanese International Concentration (30 credits for concentration) MAJMLA+CONJSI

Students who have been accepted to go on exchange in Japan may apply for a Japanese Studies International Concentration within the Major in Modern Languages.

Courses are chosen prior to the exchange in consultation with the Head of the Japanese Studies section.

With special permission under exceptional circumstances, the international requirement may be waived by earning the total of 30 JSE credits.

Minor in Japanese Studies (24 credits)

MINJSE

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.

A typical progression of courses leading to a Minor in Japanese Studies is: Year 1 – JSE 101/150 (Fall) / JSE 102 (Winter); Year 2 – JSE 201 (Fall) / JSE 202 (Winter), or an exchange program to Japan (one semester or two); Year 3 – Courses chosen in consultation with the Japanese studies program coordinator.

List of Japanese Courses

Japanese Language Courses

JSE 100	Introduction to Japanese Language I-II Intensive Course	6-6-2
This course covers the contents of JSE 101 and JSE 102 in one semester.		
JSE 101	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 102	Introduction to Japanese Language II	3-3-1
Continuation of Introduction to the Japanese Language I. <i>Prerequisite JSE 101 or equivalent</i>		
JSE 201	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. <i>Prerequisite JSE 100 or JSE 102 or equivalent</i>		
JSE 202	Intermediate Japanese Language II	3-3-1
Continuation of Intermediate Japanese Language I. <i>Prerequisite JSE 201 or equivalent</i>		
JSE 301	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. <i>Prerequisite JSE 202 or equivalent</i>		

JSE 302	Advanced Japanese Language II	3-3-1
Continuation of Advanced Japanese I. <i>Prerequisite JSE 301 or equivalent</i>		
JSE 320	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). <i>Prerequisite JSE 202 or Instructor's Permission</i>		
JSE 330	Introduction to Japanese Linguistics	3-3-0
This course introduces the basic aspects of Japanese linguistics in the areas of phonetics/phonology, morphology, syntax, semantics, and language variation. <i>Prerequisite JSE 202 or permission of instructor</i>		

Courses on Japan

JSE 150	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 310	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. <i>Prerequisite JSE 202 or instructor's permission</i>		
JSE 311	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. <i>Prerequisite: JSE 202 or Instructor's Permission</i>		
JSE 401	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 Abuchō, Yamaguchi, Japan with many generous benefits. <i>Prerequisite: JSE 101 and JSE 102 as well as an approval of the section chief of the Japanese Studies Program</i>		
JSE 402	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 Abuchō, Yamaguchi, Japan with many generous benefits. <i>Prerequisite: JSE 101 and JSE 102 as well as an approval of the section chief of the Japanese Studies Program</i>		
JSE 411	Internship in Nagasaki I	3-3-0
This is a one-year-long internship program where participating JSE students have the opportunity to improve their communication skills in Japanese while working as interns in a hotel in Japan. The work is primarily in the area of hospitality and customer services. This internship provides a rare opportunity to experience Japanese language and culture from the inside. <i>Prerequisites: JSE 202 or equivalent, and JSE 150</i>		
JSE 412	Internship in Nagasaki II	3-3-0
This is a one-year-long internship program where participating JSE students have the opportunity to improve their communication skills in Japanese while working as interns in a hotel in Japan. The work is primarily in the area of hospitality and customer services. This internship provides a rare opportunity to experience Japanese language and culture from the inside. <i>Prerequisites: JSE 202 or equivalent, and JSE 150</i>		

Music

Faculty

Jack Eby,

B.Mus. (Brit. Col.), M.A. (Western),
Ph.D. (King's College, London); Professor
Chair of the Department

Andrew P. MacDonald,

B.Mus. (Western), M.Mus., D.M.A.
(Michigan); Professor,

Ross Osmun,

B.Mus. (Windsor), M.Mus. (Eastman),
D.M.A. (Eastman); Assistant Professor

Program Overview

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. Two popular interdisciplinary programs are 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 courses 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: the history and literature of music; theory and composition; lessons on 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. Basic theory courses are combined with theory skills classes (ear-training, sight-singing and keyboard harmony). Advanced 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 and Rock Bands. Numerous performing opportunities both on and off campus are available as early as the first semester of study for students.

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 small recording studio and a number of practice rooms all equipped with Yamaha upright pianos. The Department also owns a Karl Wilhelm continuo organ, a 2-manual French Baroque harpsichord made by Montreal craftsman Yves Beaupré, two 7-foot Hamburg Steinway pianos and a 7-foot American Steinway piano. Students also have access to a 2-manual Wilhelm tracker organ in St. Mark's Chapel. As a general rule, students should possess their own instruments (with the exception of piano, double bass, harpsichord and organ).

As part of 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. A fully-staged musical is normally mounted each Spring semester, in collaboration with the Drama department.

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, either live or video format, is required. Please contact the Admissions Office for details.

Programs

Honours in Music (60 credits)

HONMUS

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:

MUS 300.....	3 credits
MUS 372 & MUS 373.....	4 credits
MUS 475.....	6 credits

Students intending to choose 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, a grade of at least 80% is required in MUS 373 to continue in Honours Performance.

Major in Music—Classical**(48 credits)****MAJMUS**

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 Recommended Music Courses (19 credits)

2 Music Literature or History Courses.....	6 credits
MUS 121.....	1 credit
MUS 130 (if required) & MUS 131.....	6 credits
Any 2 Ensemble Courses (taken from MUS 180 – MUS 189).....	2 credits
MUS 172 & MUS 173.....	4 credits

Year 2 Recommended Music Courses (20 credits)

2 Music History Courses.....	6 credits
MUS 122 & MUS 221.....	2 credits
MUS 132 & MUS 231.....	6 credits
Any 2 Ensemble Courses (taken from MUS 280 – MUS 289).....	2 credits
MUS 272 & MUS 273.....	4 credits

These remaining required music credits may be taken at any time during the student's stay at Bishop's. Majors and Minors may take more than the required number of music credits.

Major in Popular Music Studies—**Jazz , Pop/Rock (48 credits)****MAJMUP**

In addition to our Classical Music Program, the Music Department at Bishop's University offers an option to those interested in pursuing a career in popular music.

This program contains certain core courses. It is designed to cover both the practical and academic aspects of the contemporary music streams of popular culture.

Any from MUS 101, MUS 103, MUS 104, MUS 109, MUS 115, MUS 116, 203 & 204.....	12 credits
MUS 121, MUS 122, MUS 123 or MUS 221.....	3 credits
MUS 131, MUS 132 & MUS 231.....	9 credits
MUS 234.....	3 credits
Any 3 of MUS 291, 323, 376, 392 or other 300-level theory class.....	9 credits
4 Ensemble Courses.....	4 credits
MUS 172, MUS 173, MUS 272 & MUS 273.....	8 credits

Year 1 Recommended Music Courses (19 credits)

Any 2 literature courses from the list above.....	6 credits
MUS 121.....	1 credit
MUS 130 (if required) & MUS 131.....	6 credits
Any 2 Ensemble Courses (taken from MUS 180 – MUS 189).....	2 credits
MUS 172 & MUS 173.....	4 credits

Year 2 Recommended Music Courses (23 credits)

Any 2 literature courses from the list above.....	6 credits
MUS 122 & MUS 221 or MUS 123.....	2 credits
MUS 132 & MUS 231.....	6 credits
MUS 234.....	3 credits
Any 2 Ensemble Courses (taken from MUS 280 – MUS 289).....	2 credits
MUS 272 & MUS 273.....	4 credits

These remaining required music credits may be taken at any time during the student's stay at Bishop's. Majors and Minors may take more than the required number of music credits.

Minor in Music—Classical**(24 credits)****MINMUS**

MUS 110 & one other Classical literature course....	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

Minor in Popular Music Studies—**Jazz , Pop/Rock (24 credits)****MINMUP**

Any 2 from MUS 101, MUS 102, MUS 103, MUS 104, MUS 109, MUS 115, MUS 116 & MUS 203 or MUS 204 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

**Double Major: Secondary Education
and Music****MAJEMU**

Refer to page 62 in the calendar for course requirements.

Arts Administration:**Music Concentration****MAJAAM**

Refer to page 75 in the calendar for course requirements.

List of Courses

Theory and Composition

MUS 100 Making and Interpreting Music: A Foundation 3-3-0

This course is designed to introduce students to the study of Music. Some of the classes will examine music from various perspectives – Physics, Psychology, Philosophy, Religion, Politics, History, etc. – but a key part of the course experience will be performing music in class. We will learn how musical notation works and listen to a variety of musical genres, essential steps to understand how music works. Come prepared to sing and maybe play an instrument – every day! No previous study required.

MUS 121 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 122 Introduction to Musical Skills II 1-2-0

Continuation of MUS 121

MUS 123 Introduction to Jazz Skills 1-2-0

An introduction to skills required for jazz performance, including understanding the modes, basic jazz harmony, and deciphering basic jazz charts.

Prerequisite: MUS 130 or equivalent, or permission of the instructor.

MUS 130 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.

MUS 131 Materials of Music I 3-3-2

Review of the rudiments of music followed by the study of diatonic harmony, melody and voice-leading in the common-practice era.

Prerequisite: MUS 130 or equivalent, or permission of the instructor.

MUS 132 Materials of Music II 3-3-2

Continuation of MUS 131

MUS 221 Intermediate Musical Skills 1-2-0

Essential musicianship skills extended to chromatic language, including ear training, sight-singing and keyboard harmony.

MUS 231 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 234 The Jazz Musician's Toolbox 3-3-0

This course offers a hands-on skills workshop for jazz musicians that will convert theoretical knowledge into practical performing skills. Understanding and hearing musical forms, converting scales, modes, chords and arpeggios into solos, transcribing pieces, understanding jazz etiquette and jargon will all be addressed in detail. Required for all students in the Popular Music programme.

Prerequisite: MUS 131 or permission of instructor.

MUS 238 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 291 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.

Prerequisite: MUS 132

MUS 293 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 323 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.

Prerequisite: MUS 132

MUS 332 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.

Prerequisite: MUS 231

This course is not available to students who have previously completed MUS 232.

MUS 333 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 335 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 337 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 338 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 238

MUS 392 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.

This course is not available to students who have previously completed MUS 292.

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 438 Composition III 3-3-0

A continuation of MUS 338.

Prerequisite: MUS 338

Music Literature

MUS 101 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 102 Rock/Pop Music 1980 to Present 3-3-0

The course will be of great interest to a wide body of students, since it will include the music they listen to at present. An effort will be made to explain how pop music is related to popular culture in a wider sense, and to contemporary society.

MUS 103 Classic Jazz 3-3-0

This course offers a chronological study of the different eras that have marked the evolution of Jazz in America up to 1945. Analysis of form, melody, harmony, rhythm and improvisation techniques of the major works of the masters will be covered.

MUS 104 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 106 Song 3-3-0

The singer's repertoire is surveyed and analyzed. 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 107 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 109 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; and then Broadway musicals up to ca. 1990. Kern, Rogers and Hart/Hammerstein, Lerner and Loewe; the more sophisticated works of Bernstein and Sondheim; the spectacular shows of Andrew Lloyd Webber.

MUS 110 The Art of Listening I 3-3-0

An introduction to music for the non-major. After a brief study of elementary music theory—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. We will study 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, interpreting and understanding, the music of these composers.

MUS 111 The Art of Listening II 3-3-0

A continuation of the survey begun in Music 110. 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 112 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 114 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 115 Film Music I 3-3-0

This course will survey the history of film music and its major composers beginning in the late 1920's and ending in the mid 1970's. Examples from many different genres - drama, Western, comedy, horror and animation will offer a well-rounded introduction to this fascinating art form.

MUS 116 Film Music II 3-3-0

This course will survey the history of film music and its major composers beginning in the late 1970's and ending with the most recent releases. Examples from many different genres - drama, Western, comedy, horror and animated will offer a well-rounded introduction to this fascinating art form.

MUS 200 Major Composers I 3-3-0

An intensive analysis of the works, style and significance of one or more major composers of Western art music.

MUS 203 The Blues 3-3-0

This course traces the development of the blues genre from its beginnings in the Mississippi Delta to its modern-day manifestations. Perhaps the most influential popular music genre of the 20th century, blues underlines the foundations of jazz, swing, rock 'n' roll, rhythm & blues, hard rock and many pop forms. Study will be made of blues classics by Son House, Charlie Patton, Robert Johnson, Blind Lemon Jefferson, Bessie Smith, T-Bone Walker, Stevie Ray Vaughan, Eric Clapton and others.

MUS 204 The Be-Bop Revolution 3-3-0

This course takes an in-depth look at the major figures of the Be-Bop era including Charlie Parker, Dizzy Gillespie, Thelonious Monk and Miles Davis. Biographical profiles, song analysis, and historical/social relevance will also be studied in detail. This course will contain both a research and writing component.

Pre-requisite MUS 104 or permission of Instructor.

MUS 205 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; early concert life; folk music saved in oral traditions across the country, as well as contemporary folk music that draws on this heritage; 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, Willan, Champagne, Weinzweig, Jean Carignan, Natalie MacMaster, Great Big Sea and Stan Rogers.

MUS 206 Russian Music 3-3-0

This course will survey the major composers involved in the development of Russian "classical" music beginning with Glinka in the nineteenth century and ending with composers of the post-Soviet era. Discussion of church and folk music will be included if time permits.

MUS 210 Independent Studies: Literature/Theory I 3-1-0**MUS 211 Independent Studies: Literature/Theory II 3-1-0****PSY 292 Psychology of Music 3-3-0**

Music History

MUS 240 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 evolution of polyphonic sacred music and songs. The development of Musical notation, church modes, techniques of contrapuntal writing will also be examined.

MUS 241 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 242 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. Stress will be placed on new vocal techniques, analysis of new formal structures, new directions in counterpoint, and issues of performance practice. Genres include oratorio, cantata, trio sonata, concerto, dance suite, fugue. Monteverdi, Vivaldi; Lully, Rameau; Buxtehude and J.S. Bach; G.F. Handel.

MUS 244 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 Shostakovich, Ives and Varèse.

MUS 245 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 246 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. Particular stress will be placed on interpreting the new musical language, including classical harmony and formal structures, including sonata, rondo, and minuet; keyboard style of the piano; the new orchestra and string quartet; modern opera.

MUS 247 Romantic Music 3-3-0

We will analyze the new musical language of the 19th century: including chromatic harmony, cyclic construction, virtuoso performance, program music, and nationalist idioms. The music to be studied includes Schubert, Chopin, Schumann, Liszt, Brahms, Wagner, Verdi, Mahler, etc.

MUS 300 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 thinking, writing and research skills are taught in association with an introduction to the library and its resources, as well as using online sources.

Required for all Honours students

MUS 310 Independent Studies I 3-1-0**MUS 311 Independent Studies II 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 with a performance element to be chosen by the Honours student in consultation with the Department.

Ensemble

Students may register for up to two ensembles for credit 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 180	Choral Ensemble I	1-3-0
Large choral group that explores the classical repertoire from the 17th through the 20th century. Normally the Winter semester features a program of popular music. Choral ensemble is required for all incoming music students except those accepted into MUS 182, MUS 184, 186 or 188. Open to all campus and community members, by audition.		
MUS 181	Choral Ensemble II	1-3-0
See description under MUS 180.		
MUS 182	Chamber Music Ensemble I	1-3-0
Small chamber music groups that perform classical repertoire. Good reading skills are expected. Entry by audition only.		
MUS 183	Chamber Music Ensemble II	1-3-0
See description under MUS 182.		
MUS 184	Jazz/Improvisation Workshop I	1-3-0
Mixed instrumental ensemble exploring the repertoires of popular music and jazz. Entry by audition only.		
MUS 185	Jazz/Improvisation Workshop II	1-3-0
See description under MUS 184.		
MUS 186	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. Offered when numbers permit.		
MUS 187	Chamber Orchestra II	1-3-0
See description under MUS 186.		
MUS 188	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. Entry by audition only.		
MUS 189	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.		
MUS 280	Choral Ensemble III	1-3-0
See description under MUS 180.		
MUS 281	Choral Ensemble IV	1-3-0
See description under MUS 180.		
MUS 282	Chamber Music Ensemble III	1-3-0
See description under MUS 182.		
MUS 283	Chamber Music Ensemble IV	1-3-0
See description under MUS 182.		
MUS 284	Jazz/Improvisation Workshop III	1-3-0
See description under MUS 184.		
MUS 285	Jazz/Improvisation Workshop IV	1-3-0
See description under MUS 184.		
MUS 286	Chamber Orchestra III	1-3-0
See description under MUS 186.		
MUS 287	Chamber Orchestra IV	1-3-0
See description under MUS 186.		
MUS 288	Rock/Pop Band III	1-3-0
See description under MUS 188.		
MUS 289	Rock/Pop Band IV	1-3-0
See description under MUS 188.		
MUS 380	Choral Ensemble V	1-3-0
See description under MUS 180.		
MUS 381	Choral Ensemble VI	1-3-0
See description under MUS 180.		
MUS 382	Chamber Music Ensemble V	1-3-0
See description under MUS 182.		
MUS 383	Chamber Music Ensemble VI	1-3-0
See description under MUS 182.		

MUS 384	Jazz/Improvisation Workshop V	1-3-0
See description under MUS 184.		
MUS 385	Jazz/Improvisation Workshop VI	1-3-0
See description under MUS 184.		
MUS 386	Chamber Orchestra V	1-3-0
See description under MUS 186.		
MUS 387	Chamber Orchestra VI	1-3-0
See description under MUS 186.		
MUS 388	Rock/Pop Band V	1-3-0
See description under MUS 188.		
MUS 389	Rock/Pop Band VI	1-3-0
See description under MUS 188.		

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. Normally 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 to Music Minors, Majors, and Honours students. An audition is required. There is no end-of-term jury for MUS 172, however all other required principle instrument performance courses include a jury exam.

MUS 172	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. <i>Co-requisite with MUS 180, MUS 182, MUS 184, MUS 186, or MUS 188.</i>		
MUS 173	Principal Instrument II	2-1-5
Description as for MUS 172 above. End-of-term jury exam is required. <i>Co-requisite with MUS 181, MUS 183, MUS 185, MUS 187, or MUS 189</i> <i>Prerequisite: MUS 172</i>		
MUS 272	Principal Instrument III	2-1-5
Performing in studio recitals, attendance at Music Department concerts and end-of-term jury exam are required. <i>Co-requisite with MUS 280, MUS 282, MUS 284, MUS 286, or MUS 288.</i>		
MUS 273	Principal Instrument IV	2-1-5
Description as for MUS 272 above. <i>Co-requisite with MUS 281, MUS 283, MUS 285, MUS 287, or MUS 289</i>		
MUS 372	Principal Instrument V	2-1-5
Description as for MUS 272 above. <i>Intended for Music students enrolled in Performance Honours.</i>		
MUS 373	Principal Instrument VI	2-1-5
Description as for MUS 272 above. <i>Intended for Music students enrolled in Performance Honours.</i> <i>Prerequisite: MUS 372</i>		
MUS 374	Individual Practical Study: Special Project	3-2-5
A special project involving a performance aspect, on a topic approved by the Department.		
MUS 375	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 376	Improvisation	3-3-6
This course will develop the skills necessary for jazz/pop music improvisation. It is designed for students nearing graduation. <i>This course is not available to students who have previously completed MUS 290.</i>		

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 (or MUS 273) 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. End-of-term juries are required for all “71” courses.

**Non-music students must consult with the Music Department before they enrol in MUS 170.*

MUS 170 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 171 Elective Instrument II**2-3/4-5**

A continuation of MUS 170. End-of-term jury exam is required.

MUS 270 Elective Instrument III**1-3/4-5**

See description under MUS 170.

MUS 271 Elective Instrument IV**2-3/4-5**

A continuation of MUS 270. Jury exam is required.

MUS 370 Elective Instrument V**1-3/4-5**

See description under MUS 170.

MUS 371 Elective Instrument VI**2-3/4-5**

A continuation of MUS 370. Jury exam is required.

MUS 265 Musical Theatre**6-12-6**

In collaboration with the Drama department, a full musical play is mounted, normally in the Spring semester. Open, by audition only, to actors, singers, musicians and technical staff, as required for each show.

Co-listed as DRA 265.

MUS 378 Introduction in Recording Technology**3-2-6**

This course is designed to introduce the student to basic sound recording, using modern digital equipment. Instruction will be offered one-on-one. The course is project-based, and will be individually tailored to the student's knowledge and background. Enrolment limited to Music students, or others with the permission of the Department and instructor.

MUS 379 Recording Technology II**3-2-6**

A continuation of MUS 378 which will introduce the student to more sophisticated techniques in the field.

Prerequisite: MUS 378

Philosophy

Faculty

James Crooks,

B.Mus. (Mt. Allison), M.A., Ph.D.
(Toronto); Professor
Chair of the Department

Don Dombowsky,

B.A. (Concordia), M.A. (New School for
Social Research), Ph.D. (Ottawa)
Associate Professor

Bruce Gilbert,

B.A. (Toronto), M.A. (McGill), Ph.D.
(Penn.State); Professor

Program Overview

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 two broad areas: 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.

Programs

Honours in Philosophy (60 credits)

HONPHI

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 400 / PHI 401, 6 credits).

Major in Philosophy (48 credits) MAJPHI

Honours and Majors in Philosophy must have the following courses:

Any 3 of:

- LIB 210 Eros, Love and Desire
- LIB 211 Empire and Its Enemies
- LIB 212 In Search of Justice
- LIB 213 The Use and Abuse of Beauty
- LIB 214 Ecological Crisis and the Struggle for Environmental Justice
- LIB 215 Ecstasy and Excess
- LIB 216 The Divine and Ultimate Concern
- LIB 217 Space, Place & The Human Experience
- LIB 218 The History and Philosophy of Science

(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 100 On the Way to the Good Life
- PHI 101 On Thinking and Thinking Well
- PHI 102 The Metaphysical Mysteries of Reality
- PHI 103 But How Do You Know?
- PHI 104 The Hopes and Conflicts of Social and Political Life

All 4 of:

- PHI 271 Socrates and Plato
- PHI 272 Aristotle
- PHI 260 Kant
- PHI 204 Analytic Philosophy

Liberal Arts Honours and Majors with a Concentration in Philosophy must have the following courses:

Any 3 of:

- PHI 100 On the Way to the Good Life
- PHI 101 On Thinking and Thinking Well
- PHI 102 The Metaphysical Mysteries of Reality
- PHI 103 But How Do You Know?
- PHI 104 The Hopes and Conflicts of Social and Political Life

All 4 of:

- PHI 271 Socrates and Plato
- PHI 272 Aristotle
- PHI 260 Kant
- PHI 204 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 Topics in Existentialism and Phenomenology
- PHI 364 Topics in Postmodern Philosophy
- PHI 366 Topics in Critical Theory

The remaining 9 credits may be either Philosophy courses or Philosophy cognates (excluding Liberal Arts Philosophy cognates).

Minor in Philosophy (24 credits) MINPHI

A minor consists of any 24 credits in philosophy.

List of Courses

General Introduction

PHI 100 On the Way to the Good Life 3-3-0
Every one of us strives to live the best possible life--to achieve *real* happiness and fulfillment. We taste deep joy and even ecstasy, and yet we face beguiling worries. Are we tragic beings that always undermine our own projects? Is there real evil in humanity such that our happiness is an illusion? It is possible to be truly fulfilled? To really flourish? In this course students not only engage with key texts from our tradition that tackle these issues, but are also encouraged to explore and develop their own pathways to the "good life".

PHI 101 On Thinking and Thinking Well 3-3-0
Thinking well is absolutely necessary to your freedom, for if we think poorly we are vulnerable to the manipulation and ideological coercion of others. Indeed, thinking permeates our lives, and poor thinking can undermine or even sabotage our most important and valued projects and activities. Whether we try to discern rhetoric from argument in political debate, solve a conflict in our personal lives or prove a scientific hypothesis, we must become good at the art of both discovering and giving good reasons for what we hold to be true. In this course we carefully study the art of good reasoning and argument in a manner directly oriented to strengthening each student's capacity to thrive as a student in the university, as a citizen of his or her community and in his or her personal life.

PHI 102 The Metaphysical Mysteries of Reality 3-3-0
Is reality fundamentally "one", such that humanity and nature are unified and interdependent, sharing a common purpose that we are only just starting to grasp? Or are we fragmented individuals adrift in a chaotic or even absurd and surreal universe in which, if there is to be meaning at all, it must be simply created by our will? Is some other notion of reality yet more convincing? In this course we will explore the great metaphysical mysteries of being and reality.

PHI 103 But How Do You Know? 3-3-0
From personal questions like "How do I know I am in love?" to scientific problems like "How do we know the universe began with a 'Big Bang'?", the problem of *how do we know* saturates our experience. Surely "seeing is believing", and yet so much intellectual and artistic experience requires that we posit ideas and images that are impossible to perceive with our senses. Moreover, is there still a way in which we can say there is Truth, or is truth really just disguised power? In this course we will explore great puzzles of knowing that animate problems from the Scientific Method to claims about religious knowledge.

PHI 104 The Hopes and Conflicts of Social and Political Life 3-3-0
We live in a time of great social and political turmoil. On the one hand, there is widespread consensus that democracy is the only form of governance adequate to the dignity of human freedom. Yet on the other hand, we are plagued by worries that enormous gaps of wealth and power make authentic democratic participation next to impossible. Or we worry that the state or large corporations are robbing citizens of their genuine liberty. Is our society dominated by the "1%", or are current inequalities of wealth and power actually mutual benefit to everyone? This course will focus on concrete social and political conflicts and struggles in our own time, and trace the way that these raise fundamental philosophical and political problems about freedom, rights, gender and sexuality, race and ethnicity, economic justice and other important themes.

PHI 105 Freedom, Anxiety and Authenticity: Existentialist Philosophy 3-3-0
Beneath our freedom is nothing but an abyss, for there is no God or metaphysical foundation for humanity to lean upon. Freedom is thus less a liberty "to do what we want" than an anxiety-laden imperative to either create meaning for ourselves or flee from that responsibility. So said the larger than life existentialist philosophers of the 20th century, Jean-Paul Sartre, Simone de Beauvoir and others. In this course we introduce this dynamic philosophical movement that continues to have enormous influence over our culture by studying not only its main writers but also by exploring the many vital human themes it raises.

PHI 106 Philosophy of Sex and Love 3-3-0
What is gender? What is sexuality, and how is it different from eroticism? Is love just expression of reproductive drives or a higher calling to the Beautiful, the Good and the True? This course explores traditional and contemporary theories of love, desire and sexuality as problems at the heart of the human journey.

Independent Studies

PHI 207	Independent Study I	3-3-0
PHI 208	Independent Study II	3-3-0
PHI 307	Independent Study III	3-3-0
PHI 308	Independent Study IV	3-3-0

Thesis

PHI400 Honours Thesis I 3-3-0
Each student researches, writes and publically defends a comprehensive thesis proposal under the supervision of one member of the Department. Students must receive a grade of 75% or higher in this course in order to be permitted to register for PHI 401.

PHI 401 Honours Thesis II 3-3-0
Based on the proposal completed in PHI 400, students draft, revise and defend an honours thesis, as examined by all members of the Department of Philosophy.
Prerequisite: PHI 400

THE HISTORY OF WESTERN PHILOSOPHY

PHI 200 / CLA 273 Ancient Philosophy 3-3-0
Exploration of key themes and problems in ancient Greek philosophy, including the Pre-Socratic and Hellenistic philosophers, but with special emphasis on the thought of Socrates, Plato and Aristotle. Ancient philosophers inaugurated our scientific and philosophical tradition, and this course will thus address vital themes like existence of pure ideas of the Good, the Beautiful and the Just, the nature of a human longing to fulfill or realize our nature, as well as the character of eros, friendship and dialogue (logos).

PHI 201 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. Text will be drawn from Augustine, Boethius, Eriugena, Anselm, Alfarabi, Avicenna, Averroes, Bonaventure, Siger of Brabant and Aquinas.

PHI 202 Modern Philosophy 3-3-0
Explores key themes, problems and debates in the rationalist and empiricist tradition in the Modern period of European philosophy. This includes especially the thought of rationalist philosophers like Descartes, Leibniz and Spinoza as contrasted with that of the great empiricists - Locke, Berkeley and Hume. This course will address topics such as the relationship of body and mind, of ideas to sensation, of necessity and freedom as well as the nature of human happiness.

PHI 203 Continental Philosophy 3-3-0
Explores key themes and problems in contemporary continental philosophy. Beginning with the transcendental philosophy of Kant the continental tradition has focused on themes such as freedom, the body, emotion, and our concrete relationships with other people. Students will study authors like Hegel, Marx, Nietzsche, Sartre, Heidegger, de Beauvoir, Merleau-Ponty, and Derrida.

PHI 204 Analytic Philosophy 3-3-0
Introduction to 20th century analytic philosophy drawing on works of Moore, Russell, Wittgenstein, Quine, Ayer, Strawson and Armstrong.

The Western Philosophical Tradition

PHI 260 Kant 3-3-0
Consideration of epistemological and ethical issues in Kant's first two Critiques.

PHI 271 / CLA 271 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 272 / CLA 272 Aristotle 3-3-0
A study of selected works of Aristotle with special emphasis on logic, metaphysics, and the concept of substance.

PHI 374 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.

Continental European Philosophy

PHI 263 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.

PHI 265 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 to 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 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.

PHI 362 Topics In Existentialism and 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 364 Topics in Postmodern Philosophy 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 Topics in 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 (especially Freud), 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.

Problems, Special Interests and Service Courses

PHI 244 Philosophy of Mind 3-3-0
Theories of mind including those developed by Aristotle, Descartes, Hume, Berkeley, Ryle, Strawson and Armstrong.

PHI 249 Philosophy of History 3-3-0
The course looks at the philosophical treatment of history in thinkers such as Hegel, Marx, Nietzsche and Collingwood.

PHI 279 Between Transcendentalism and Pragmatism 3-3-0
Inspired by the European romantics and idealists but charting a distinctly New World path, the great philosophical and literary authors of the 19th century New England Renaissance gave birth to Transcendentalist philosophy – especially in authors like Ralph Waldo Emerson and Henry David Thoreau. Spurning the elitism and dualistic battles of European thought, this movement affirmed the wisdom of emotion and sensuality but without spurning reason. The transcendentalists prepared the ground for the birth of Pragmatism in the late 19th century, especially in philosophers like Charles Sanders Peirce, William James and, in the next generation, John Dewey. Temporarily eclipsed by the rise of analytic philosophy in the mid-twentieth century, a new wave of pragmatism in authors like Hillary Putnam and Robert Brandom is becoming enormously influential on both sides of the Atlantic. This course will follow the development of pragmatism from its earliest roots right into most important contemporary debates.

PHI 340 Ethics on the Cutting Edge 3-3-0
Ethical controversies ring more loudly than ever in our society and, in step with this, so too does a flourishing philosophical debate that charts a new path of ethical engagement that avoids moral relativism on the one hand and mere analytic reasoning on the other. This course will explore the writing of some of the most dynamic contemporary writers on ethics and the good life, including Emmanuel Levinas, Charles Taylor, Martha Nussbaum, Alasdair MacIntyre and others.

Prerequisite: at least one course in Philosophy

PHI 343 Topics in 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 Wittgenstein, Heidegger and Gadamer.

PHI 345 Topics in Philosophy of 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 346 Topics in 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 347 Topics in Philosophy of Literature 3-3-0

From the time of Plato's engagement with Homer to the contemporary philosophical dialogue with poetry and the novel, philosophy and literature have had a rich and sometimes controversial relationship. This course will explore this dynamic interaction through the careful study philosophically significant works of literature and related works of philosophy.

PHI 348 / POL 348 Topics 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 349 Topics in Feminist Philosophy 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 352 Topics in Philosophy of Being 3-3-0

A detailed study of key themes in metaphysics and ontology, including topics like the nature of first philosophy, the nature of the philosophical God, the notion of Spirit and the character of our being in the world.

Prerequisite: at least one course in Philosophy

PHI 353 Topics in the Philosophy of Knowledge 3-3-0

A detailed study of key themes in epistemology, including topics like the nature of a priori concepts, empiricism, scientific method, knowledge as self-transcendence and the self-withdrawal of Being.

Prerequisite: at least one course in Philosophy

PHI 354 The Philosophy of Contemplation 3-3-0

When Plato said that "philosophy begins in wonder" he inaugurated a tradition in the West in which contemplation and the awe that accompanies it were elevated to among the richest and most sublime of human experiences. Here West joined East, which already had a centuries-old devotion to contemplation in the Hindu, Buddhist and Taoist traditions, among others. This course will develop not just a familiarity with the philosophical theories of contemplation but also cultivate precisely the kinds of contemplative experiences that draw us towards transcendence.

PHI 355 Analysis Seminar 3-3-0

An in depth study of one of the major contributions to analytic philosophy (e.g. Strawson's Individuals, Quine's Word and Object, or Geach's Reference and Generality).

Prerequisite: PHI 204

PHI 387 Topics in the World Philosophy 3-3-0

Explores one or more of the world's great philosophical traditions, such as Buddhist, Taoist, Hindu, African and North American philosophy.

Prerequisite: at least one course in Philosophy

Cognate Courses

FRA 262

ESG 366

LIB 210, LIB 211, LIB 212, LIB 213, LIB 214, LIB 215, LIB 216

POL 323, POL 324, POL 329

PSY 342, PSY 443

SOC 122, SOC 320

REL 232, REL 233, REL 252, REL 253, REL 330, REL 331

Pre-Law

Program Overview

The pre-law program – the certificate and the minor – is designed to ground students in the theoretical underpinnings of law-making and interpretation, concepts of justice and equity, and civic governance and responsible citizenship, while also building a knowledge-base in a wide array of related disciplines, such as literature, history, politics, and criminology. The program will also expose students to core competencies – such as problem solving, critical reading, oral and written communications, research, organization and time-management, leadership, and team-building – that enhance capacities for success in law school or other careers within the justice system.

This program is interdisciplinary and offers students the opportunity to develop and/or hone their skills in the areas of logic and critical thinking, argumentation and debate, time-management, and group dynamics. The program aligns with the vision and values of Bishop's University, and seeks to enhance the mission to provide students with an exemplary undergraduate experience in the classroom and beyond. To develop these competencies, students will choose from a list of Humanities, Social Sciences, and other courses provided and will take one capstone course, to be offered annually during the Winter term. Participants should note that the program does not guarantee admission to law school but seeks rather to help in their success once admitted.

Course selection from a select list is based on LSAT criteria and disciplinary knowledge: Content, Reading Comprehension, Analytical Reasoning, Writing proficiency, and Logical Reasoning.

Programs

Pre-Law Minor (24 credits) MINPRL

For the minor, students will take two courses each from the Logical and Analytical Reasoning lists, three from the Reading and Writing categories, and the capstone course.

For the minor, double counting will be allowed on the same basis as the certificate and students may not take more than two 100 level courses. Double counting of courses between the certificate and a student's major or honours program should be set at a maximum of two courses or six credits. To receive the certificate, students may not take more than three 100 level courses.

Pre-Law Certificate (30 credits) CONPRL

For the certificate, students will be obliged to take one course from the Content list, two courses from each of the Analytical and Logical Reasoning lists and four courses from the Writing and Reading category, plus the capstone course, in order to complete the program.

In order to ensure that this is a selective program for students, the minimum average required for admission into the certificate will be 80%/25 R score.

Please note also: Courses taken within the Pre-Law Certificate program cannot be counted as courses towards a university degree. Students currently enrolled in an undergraduate program at Bishop's should therefore take the minor, the courses for which can be counted towards their degree.

List of Courses

(Please refer to other sections of the Academic Calendar for full course descriptions)

1. Content

BMG 221	Business Law
CLA 321	Laws and Outlaws in Ancient Rome
DRA 131	Acting I
DRA 132	Acting II
DRA 212	Theatre and the State
FIH 240	Art Popular and Mass Culture
HIS 228	Memory, Truth and Reconciliation
HIS 229	Human Rights and Humanitarian Organizations
HIS 300	The Law of the Land: Indigenous Treaties with Canada
HIS 393	Inquisitions, Law and Society
LIB 370	Social Movements and Social Change in Brazil
REL 200	Politics and Religion
ECO 217	International Economics
ECO 237	Economics of the Environment
SOC 207	Sociology of Indigenous-Settler Relations
SOC 209	Young Offenders
SOC 235	Women and the Penal System
ESG 354	Environmental Impact Assessment
POL 101	Introduction to Comparative Politics
POL 112	Introduction to Canadian Politics
POL 118	Constitutional Law and Canadian Government
POL 214	Public Administration
POL 344	The Politics of International Trade and Investment
POL 345	Introduction to Public International Law
PSY 356	Forensic Psychology

2. Analytical Reasoning (making connections)

BMG 322	Change Management
BMG 323	Interpersonal Skills
ENG 205	The Art of Rhetoric
ENG 350	Technology, Media and Literature in Victorian England
ENG 352	Canadian Literature and Theories of Globalization
FIH 314	Colonial and Postcolonial Issues in the Visual Arts
HIS 235	Europe's Queer History
HIS 234	The Italian Renaissance
HIS 269	First Nations/Settler Relations
LIB 212	In Search of Justice
LIB 214	Human Will and Nature
LIB 222	Citizenship and Democratic Practice I
LIB 223	Citizenship and Democratic Practice II
REL 232	Philosophy of Religion I
REL 233	Philosophy of Religion II
ECO 322	Real Estate Economics
SOC 208	Criminology
SOC 230	Deviance 1
SOC 298	Social Problems
SOC 309	Advanced Seminar in Global Colonization and Decolonization
SOC 331	Deviance 2: Selected Topics
SOC 340	Women: Theory and Ideology
SOC 396	Post-Colonial Theory
ESG 350	Environmental Justice
POL 334	Public Policy Analysis
POL 338	International Law and Human Rights

3. Logical Reasoning (problem solving)

BHR 316	Organizational Conflict and Negotiation
LAT 101F	Beginners' Latin I
LAT 200	Intensive Intermediate Latin (or LAT 201a. 202b)

Any 100 or 200 level Philosophy courses

MAT 100	Excursions in Modern Mathematics
MAT 200	Introduction to Discrete Mathematics
SOC 315	Political Sociology in the Digital Era
SOC 311	Quantitative Tools for Social Research
PSY 330	Psychology and Ethics

4. Reading Comprehension and Writing Proficiency

Any 200 or 300 level courses in Classics, English, History or Religion

Religion

Faculty

Daniel Miller,

B.A., M.A. (Toronto), M.A. Ph.D. (Michigan), Associate Professor
Chair of the Department

Michele Murray,

B.A. (Trinity Western), M.A. (Hebrew University of Jerusalem), Ph.D. (Toronto); Professor

Harvey W. White,

B.A. (Minnesota), B.D. Th.M. (Princeton), Ph.D. (McGill); Professor

Program Overview

The study of religion has been a foundational part of Bishop's University's mission since the institution's establishment in the mid-19th century. At that time the focus was on Christianity, but today, as a department in the Humanities division, we offer a broad range of courses covering the major world religions and examining religion from a number of perspectives. Our objective is to further the understanding of religion, not to advocate its practice or non-practice. To this end, we offer courses in three major categories.

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 lives. The study of religion may also, of course, be in preparation for some form of ministry.

Programs

Honours in Religion (60 credits)

HONREL

Students must keep an average of at least 70% as calculated from the best 60 credits in the program (including cognates). Students have the option of writing an Honours thesis in their final year. Students usually take the Honours program if they plan to pursue graduate work. See the Major in Religion below.

Major in Religion (42 credits)

MAJREL

Honours and Majors are also required to fulfill the following minimum distribution requirements (30 credits; see the course lists for course descriptions):

Biblical Studies: 6 credits from: REL 112, REL 114, REL 115, REL 135, REL 214, REL 215, REL 328

World Religions: 12 credits, including REL 100 and REL 101, plus 6 credits from: 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

Minor in Religion (24 credits)

MINREL

Any 24 credits in Religion

List of Courses

Biblical Studies

REL 112 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.

REL 114 Biblical Hebrew I 3-3-0

Introduction to biblical Hebrew grammar, and reading of simple texts.

REL 115 Biblical Hebrew II 3-3-0

More advanced biblical Hebrew grammatical concepts, and study of more challenging texts.

REL 135 The World of the New Testament 3-3-0

How did Jesus the Jew come to be known as Jesus Christ? What was the Graeco-Roman world that birthed the first-century Jewish sect that became Christianity like? Through an analysis of various New Testament documents and other early Christian writings, this course will focus on the social, historical and political context of the Graeco-Roman world that gave rise to Christianity.

REL 214 Israelite Mythology and Cultic Practice 3-3-0

An examination of mythology and cultic practices within Israelite society, as reflected in the Hebrew Bible (also called the 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; necromancy; child sacrifice.

REL 215 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.

REL 247 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.

REL 311 Advanced Study in Biblical Texts 3-3-0
This course closely examines selected biblical texts with special reference to context and (re)interpretation.

REL 328 Christian Origins 3-3-0
This course explores a variety of early Christian and Jewish texts to understand the existence of different Christianities in the first four centuries of the Common Era and the complex relationship between Jews and Christians within the broader historical context of the Roman Empire. Possible topics to be discussed include: How did Christianity become its own religion, separate from Judaism? What did Christians believe about Jesus and about their own identity in the formative period of Christianity? What social and cultural forces forged the earliest images of Jesus?
Prerequisite: REL 135 or permission of the instructor

World Religions

REL 100 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.

REL 101 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.

REL 120 / CLA 112 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 124 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 125 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 126 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 127 Islam: Submission to Allah 3-3-0
The history, literature, ideas and practices of Islam from its origins to the present. Topics include: 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; shari'ah; Sufism and the mystical tradition; Sunni and Shi'ite; women in Islam; art and architecture in Islam; Islam and modernity.

REL 205 Indigenous Religious Traditions 3-3-0
This course will examine the kinds of religious experiences found among the indigenous peoples of the Americas, with a particular emphasis on the traditions of Canada's First Nations (for example, Cree, Iroquois, Mohawk) and Inuit. Beyond the Canadian landscape, possible topics will include the religious traditions of the Inca, Aztec, Maya and Lakota.

REL 238 / CLA 238 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 280 / CLA 280 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 148 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).

REL 149 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.

REL 200 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. Topics include: radical Zionist settlers in the West Bank; the triumph of Islamic theocracy in Iran; Christian evangelicals in the United States; Islamist groups (e.g., ISIS, Al Qaeda and the Taliban).

REL 203 / CLA 206 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 204 / CLA 204 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.

REL 206 Apocalypse 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. Consideration will also be given to End Time beliefs in more recent "apocalyptic" movements (e.g., Heaven's Gate and the Branch Davidians).

REL 207 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 the instructor

REL 208 / 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 longtime sister in spirit—art? This course will explore the troubled and passionate place of religious experience and the aesthetic in Western civilization.

REL 209 Sports and Religion 3-3-0

This course will examine the intersection between sport and religious mentality and expression. Topics will include the rituals associated with athletics, supposed sports miracles and curses, prayer, the passion of the individual fan (“flow”) and the euphoria of the collective (“communitas”).

REL 232 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.

REL 233 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.

REL 234 / 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 236 / CLA 236 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 include: myths associated with the afterlife; books of the dead; magic and death rituals; understandings of heaven and hell; final judgment.

Prerequisite: REL 100 or REL 101 or permission of the instructor

REL 237 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.

REL 302 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 course will examine the roots and development of some of these groups, which scholars have generally called “New Religious Movements” (NRMs). Possible movements studied will include: The Church of Jesus Christ of Latter-day Saints (i.e., Mormonism), the International Society for Krishna Consciousness (i.e., the Hare Krishnas), Scientology, Bahá’í, Jehovah’s Witnesses, Christian Science and the Raelian Movement.

REL 303 / LIB 303 On the Road Again: Pilgrimage in Theory and Practice 3-3-0

This course will examine pilgrimage as embodied experience, with a special focus on contemporary pilgrimage. Cross-cultural approaches and historical context will be key to understanding the current fascination with walking as transformative practice. Theories of identity, community, and belonging will also be discussed. Students will have an opportunity to participate in a short pilgrimage.

REL 310 The Religious Right in the United States: From Moral Majority to FOX NEWS 3-3-0

In the early 20th century, in response to the Enlightenment and growing challenges to literalist biblical claims, a conservative movement emerged among American Protestants. For the next several decades, this movement waxed and waned until it found a standard-bearer, the Rev. Jerry Falwell, in the late 1970s. Falwell fronted an organization called “The Moral Majority” and those supporting it became known as the Religious Right. Today, the Religious Right continues to be a significant part of the American cultural and political landscape, with its viewpoint disseminated by FOX NEWS, among other media. This course will examine the theological underpinnings of the Religious Right; the social, political and religious context in which it emerged and has developed; the effect it has exerted on politics in the United States; and its prospects for the future in a country divided by the “culture wars” that began there in the 1990s.

REL 330 Philosophy of Religion and Theology I 3-3-0

A seminar course 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.

REL 331 Philosophy of Religion and Theology II 3-3-0

A seminar course 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.

REL 332 / CLA 332 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 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.

REL 335 / 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, 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

REL 350 /**CLA 350 The Goddess: History, Cult and Myth 3-3-0**

From Diana's bow to Athena's shield, from the fearsome wail of the Erinyes to the dulcet tones of the Muses, the sacred feminine in all its manifestations has fueled the imagination. How we in the modern world perceive the female divine, however, also reflects our own changing attitudes towards women. In this seminar course, we will examine the sacred feminine in art, archaeology, and literature, from Paleolithic Europe to contemporary America, with a view to understanding the construction of tropes of femininity both in ancient cultures and our own. Topics may include Near Eastern and Graeco-Roman goddesses, Hindu goddesses, gendered archaeology, the virgin Mary, modern goddess movements, and more!

Prerequisite: at least two Classics courses or permission of the instructor

Independent Studies

REL 300 Independent Studies I 3-3-0**REL 301 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

Cognate Courses

The following courses in other departments are recognized as Religion cognates:

CLA 110	The Art and Archaeology of Ancient Egypt
CLA 113	Classical Mythology: The Greek Influence on Rome
DRA 211	Ritual and Theatre
EDU 313	Teaching Ethics and Religious Culture (Elementary & Secondary)
HIS 253	A History of Medieval Europe
HIS 278	A History of the Middle East to 1919
HIS 279	The Middle East in the Twentieth Century
HIS 291	Women in the Islamic World
LIB 384/ ITA 384	Dante's Divine Comedy

Most courses offered in the Liberal Arts program

Most courses offered in the Philosophy Department

PSY298 Zen and the Brain

This is not 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.

Division of Natural Sciences and Mathematics

Overview

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 and Astronomy.

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 fewer than 20 students) 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 enrol 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 course 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 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
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)

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
	Biodiversity and Ecology	B.Sc., B.A	Honours, Major
	Biology		Minor
Chemistry		B.Sc.	Honours, Major, Minor
Computer Science		M.Sc.	
		B.Sc.	Honours, Major, Minor
		Certificate	
	Information Technology	B.A.	Major
Environmental Science (part of Environment and Geography)	Physics	B.Sc.	Major
	Chemistry	B.Sc.	Major
	Environmental Science		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	ENG 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	ENG 116 + 1**
		CHM 192	MAT 199	PHY 192 or PHY 194	
Biological Sciences B.A.	BIO 196				ENG 116 + 1**
	BIO 197				
Chemistry		CHM 191	MAT 198	PHY 191	ENG 116 + 1**
		CHM 192	MAT 199	PHY 192	
Computer Science B.Sc.			MAT 191	PHY 191	ENG 116 + 1**
			MAT 192	PHY 192	
Information Technology B.A.			MAT 196		ENG 116 + 1**
			MAT 197		
Environmental Science	BIO 196	CHM 191	MAT 191	PHY 191	ENG 116 + 1**
		CHM 192	MAT 192	PHY 192	
Mathematics B.Sc.			MAT 191	PHY 191	ENG 116 + 1**
			MAT 192	PHY 192	
Mathematics B.A.			MAT 191		ENG 116 + 1**
			MAT 192		
Physics		CHM 191	MAT 191	PHY 191	ENG 116 + 1**
		CHM 192	MAT 192	PHY 192	
Science Teaching	BIO 196	CHM 191	MAT 191 or MAT 198	PHY 191 or PHY 193	ENG 116 + 1**
		CHM 192	MAT 192 or MAT 199	PHY 192 or PHY 194	

* Any CEGEP DEC fulfils the Humanities requirement

** ENG 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)

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 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.

Biochemistry

Faculty

Elizabeth Prusak,

M.Sc. Eng. (Tech. Univ., Poland);
Ph.D. (Polish Academy of Science);
Professor
Chair of the Department

Virginia L. Stroher,

B.Sc. (Montana State), Ph.D.
(University of Washington); Professor

Program Overview

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 necessary 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 Major 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.

Programs

Biochemistry Honours (99 credits)

HONBCH

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:

- a minimum cumulative average of 75% by the end of the Y3 year, and
- at least 75% in each 300-level and 400-level course required in the program.

To complete the Honours Biochemistry program, a student must;

- maintain a minimum cumulative average of 75% and
- achieve at least 75% in each 300-level and 400-level course required in the program with a maximum permitted exemption of four credits and
- achieve at least 75% in each of BCH 491 and BCH 492.

The Honours Biochemistry program includes a three credit scientific writing course and a six-credit honours research project that will be evaluated by 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.

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 120 course credits are divided as follows: 78 core required course credits, 21 required optional 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 191 / CHL 191 (General Chemistry I)
PHY 193 / PHL 193 (General Physics I for Life Science)
MAT 198 (Calculus I for Life Science)
ENG 116 (Effective Writing)

CHM 192 / CHL 192 (General Chemistry II)
PHY 194 / PHL 194 (General Physics II for Life Science)
MAT 199 (Calculus II for Life Science)
OPT
OPT

Y2 Year

BIO 201 (Cellular and Molecular Biology)
CHM 131 / CHL 131 (Physical Chemistry I)
CHM 141 / CHL 141 (Analytical Chemistry)
CHM 111 / CHL 111 (Organic Chemistry I)
PHY 101 (Statistical Methods)

BIO 208 / BIL 208 (Genetics)
BCH 210 (General Biochemistry)
CHM 245 / CHL 245 (Instrumental Analysis)
CHM 211 / CHL 211 (Organic Chemistry II)
OPT

Y3 Year

BIO 336 / BIL 336 (Animal Physiology I)
BCH 311 (Proteins)
CHM 341 / CHL 341 (Molecular Spectroscopy)
OPT
OPT

BCH 312 (Lipids & Biomembranes)
BCH 313 / BCL 313 (Metabolism)
OPT
OPT
OPT

Y4 Year

BCH 411 (Molecular Biology)
BIO 386 (Scientific Writing)
BCH 491 (Honours Research Project I)
OPT
OPT

BCH 492 (Honours Research Project II)
OPT
OPT
OPT
OPT

Required Optional Courses (21 course credits from the list)

BCH 381 (Immunology)
BCH 382 (Environmental Biochemistry and Toxicology)
BCH 421 (Enzymology)
BCH 422 / BCL 422 (Biotechnology)
BIO 310 (Advanced Cell Biology)
BIO 320 (Programmed Cell Death)
BIO 337 / BIL 337 (Animal Physiology II)
BIO 352 / BIL 352 (Microbiology)
BIO 359 (Human Genetics)
BIO 365 (Developmental Biology)
BIO 394 (Biology of Cancer)
CHM 231 / CHL 231 (Physical Chemistry II)
CHM 311 / CHL 311 (Physical Chemistry III)
PBI 380 (Psychopharmacology)

Free Electives (18 course credits)**Humanities or Social Sciences Elective (3 course credits)**

Biochemistry Major (90 credits)

MAJBCH

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 required optional 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
ENG 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 (General Biochemistry)
CHM 141 / CHL 141 (Analytical Chemistry)	CHM 245 / CHL 245 (Instrumental Analysis)
CHM 111 / CHL 111 (Organic Chemistry I)	CHM 211 / CHL 211 (Organic Chemistry II)
PHY 101 (Statistical Methods)	OPT

Y3 Year

BIO 336 / BIL 336 (Animal Physiology I)	BCH 312 (Lipids & Biomembranes)
BCH 311 (Proteins)	BCH 313 / BCL 313 (Metabolism)
CHM 341 / CHL 341 (Molecular Spectroscopy)	OPT
OPT	OPT
OPT	OPT

Y4 Year

BCH 411 (Molecular Biology)	OPT
OPT	OPT
OPT	OPT
OPT	OPT

Required Optional Courses (21 course credits from the list)

BCH 381 (Immunology)
 BCH 382 (Environmental Biochemistry and Toxicology)
 BCH 421 (Enzymology)
 BCH 422 / BCL 422 (Biotechnology)
 BIO 310 (Advanced Cell Biology)
 BIO 320 (Programmed Cell Death)
 BIO 337 / BIL 337 (Animal Physiology II)
 BIO 352 / BIL 352 (Microbiology)
 BIO 359 (Human Genetics)
 BIO 365 (Developmental Biology)
 BIO 394 (Biology of Cancer)
 CHM 231 / CHL 231 (Physical Chemistry II)
 CHM 311 / CHL 311 (Physical Chemistry III)
 PBI 380 (Psychopharmacology)

Free Electives (27 course credits)

Humanities or Social Sciences Elective (3 course credits)

Biochemistry Minor (24 credits) MINBCH

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 (Proteins)
 BCH 312 (Lipids & Biomembranes)
 BIO 208 / BIL 208 (Genetics)
 BIO 336 / BIL 336 (Animal Physiology I)
 CHM 141 / CHL 141 (Analytical Chemistry)

Required Optional Courses

(9 course credits from list):

BCH 313 / BCL 313 (Metabolism)
 BCH 381 (Immunology)
 BCH 411 (Molecular Biology)
 BCH 421 (Enzymology)
 BIO 310 (Advanced Cell Biology)
 BIO 320 (Programmed Cell Death)
 BIO 337 / BIL 337 (Animal Physiology II)
 BIO 352 / BIL 352 (Microbiology)
 BIO 394 (Biology of Cancer)
 CHM 131 / CHL 131 (Physical Chemistry I)
 CHM 211 / CHL 211 (Organic Chemistry II)

List of Courses

- BCH 101 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 210 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: CHE 111 and BIO 201
- BCH 311 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 111 and BCH 210
- BCH 312 Lipids and Biomembranes 3-3-0**
 Biomembranes structure and function, including study of cell membrane structure, and transport, trans-membrane signaling, hormones and secondary messengers.
Prerequisite: BCH 311
- BCH 313 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 111 or BIO 155, and BIO 336
Co-requisite: BCL 313
- BCL 313 Metabolism Laboratory 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 313
- BCH 371 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 a committee of professors from within the Biochemistry Program.
Prerequisite: Permission of the Biochemistry Committee
- BCH 372 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 371, 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 a committee of professors from within the Biochemistry Program.
Prerequisite: Permission of the Biochemistry Committee

BCH 381 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 201 and BIO 208

BCH 382 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 201 and BIO 208

BCH 411 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 201, BIO 208

BCH 421 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 311, BCH 312 and BCH 313

BCH 422 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.

This course will be offered every second year.

Prerequisite: BCH 383 (may be taken concurrently)

Corequisite: BCL 422

BCL 422 Biotechnology Laboratory 1-0-3

Practical application of several of the techniques introduced in BCH 422.

Prerequisite: BCH 383 (may be taken concurrently)

Corequisite: BCH 422

BCH 491 Honours Research Project I 3-1-6

An introduction to the planning, execution and reporting of biological research offered to students matching eligibility criteria. 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 BCH 491 with a minimum overall mark of 75% with a minimal score of 70% in each graded component, is required for enrolment in BCH 492.

Prerequisite: Permission of Biochemistry Committee

Co-requisite or prerequisite: BIO 386

BCH 492 Honours Research Project II 3-1-12

A continuation of BCH 491 offered to students matching eligibility criteria. 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. Enrolment in BCH 492 is conditional upon completing BCH 491 with a minimum mark of 75%. Satisfactory completion of BIO 492 with a minimum overall mark of 75%, with a minimal score of 70% in each graded component, is required to complete the Honours program

Prerequisite: BCH 491

Biological Sciences

Faculty

Patrick Bergeron,

B.Sc. (McGill), Ph.D. (Université de Sherbrooke),
Associate Professor

Marylène Boulet,

B.Sc. (Laval), M.Sc. (Laval), Ph.D. (McMaster),
Senior Instructor

Estelle Chamoux,

Ph.D. (Sherbrooke); Associate Professor

Kerry Hull,

B.Sc, Ph.D. (Alberta); Professor

Michael Richardson,

B.Sc., M.Sc., Ph.D. (McGill); Associate Professor
Chair of the Department

Jade Savage,

B.Sc., Ph.D. (McGill); Professor

Virginia Strocher,

B.Sc. (Montana State), Ph.D. (University of
Washington); Professor

Program Overview

The Biology programs educate students about diverse aspects of living organisms, ranging from microbes to human populations to complex ecosystems. 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.

The Biology program's best attribute is its teachers. Our faculty members are dedicated to undergraduate teaching and enjoy helping students develop their knowledge and skills both in and out of the classroom.

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 Biodiversity and Ecology. 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 Biodiversity and Ecology concentration. Please note that the courses to be taken within each program are outlined in the nearby tables.

Please refer to the Natural Sciences Division page for information on *Divisional Requirements*.

Programs

All Biology programs include core Biology courses, courses related to the chosen concentration, and, in the case of B.Sc. programs, basic science courses. All Bachelor degrees require 120 credits; thus, each student takes elective courses in addition to those required for their specific program.

B.Sc. Biology Major (90 credits) MAJBIO

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). See the nearby tables for the complete list of courses.

B.Sc. Biology Honours (102 credits)

HONBIO

Highly motivated students may choose to pursue an honours degree, which requires additional Biology courses and thus fewer electives (see nearby tables). To qualify, students must: (1) maintain a cumulative average of at least 75%; (2) receive a mark lower than 75% in no more than four credits (1 lecture and 1 laboratory course) in any 300 or 400-level Biology or Biochemistry course; and (3) obtain a mark of 75% or higher in each BIO 492 and BIO 493.

B.A. Biology Major (54 credits) MAJBIO

The B.A. Biology program is designed for students lacking a strong science background. This program has fewer required courses than the B.Sc. programs, so students may be able to complete the requirements of a second major within their 120-credit degree. It is thus 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.

Please see the nearby Tables for the complete list of courses required to complete this major.

Pre-Medicine Double Major MAJMED

Many of our students enrolled in the biology program are interested in going to medical school, and the BSc Biology (Health Sciences) program includes common prerequisites for application to medical schools in both Canada and the US. However, students should be aware that the entrance requirements can vary greatly between medical schools, and often change from year to year, therefore we recommend that students decide on which schools they are hoping to go to and then research what are the particular requirements of that school (the faculty can help you with this search). For those students unsure of where they would like to go and wishing to cover as wide a set of potential requirements as possible, BU also offers an inter-disciplinary Pre-Medicine double major, which specifically addresses these concerns. 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.

Biology Minor (24 credits) MINBIO

The biology minor consists of eight introductory courses in different areas of Biology. As illustrated in Table 2, seven of these courses are required and one is optional. This minor allows students majoring in a different field to obtain a perspective on modern biology.

Table 1: The Health Science Concentration

B.Sc. Biology (Health Sciences)*

1. Y1 Year

(All non-Quebec students; 30 cr)

BIO 196 Introduction to Cell & Molecular Biology
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
ENG 116

Effective Writing
(or other ENG)

Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)

Free elective: students may take any free elective or they may want to consider taking either *BIO 207 Introduction to Evolution and Ecology* or *BIO233 Human Anatomy*. Students who did not do well in BIO 196 should not take the above courses until their second year when they are better prepared.

2. Required Core Courses (21 cr)

BIO 201 Cellular 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 (15 cr)

BCH 313 Metabolism
BIO 337 Animal Physiology 2
BIO 352 Microbiology
OR BCH 383 Molecular Biology
BCH 210 General Biochemistry
PSY 101 Introductory Psychology

4. Concentration Options (21 cr)

Select any 7 courses from the far right column. At least 5 of these courses must be from Biology and at least one of these 7 courses must be either BIO 394 Biology and Cancer, BIO 411 Health Science Seminar, or BIO 428 Advanced Physiology.

5. Science Options (6 cr)

Select any 2 courses from the Division of Natural Sciences and Mathematics (including Biology). All courses must be eligible for science credit by

science students (see individual course descriptions). For students interested in medicine, *PHY 206 Waves and Optics* and *CHM 211 Organic Chemistry II* may be good choices as they are pre-requisites for some medical schools.

6. Free Options (27 cr)

Choose 9 courses from any division to complete your 120-credit degree. 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, students in the honours program must add the following 4 courses and reduce the free options by 12 credits (4 courses).

BIO 492 Honours Thesis I
BIO 493 Honours Thesis II
BIO 386 Scientific Writing
BIO 311 Quantitative Methods in Biology

B.A. Biology (Health Sciences)*

1. Y1 Year

(All non-Quebec students; 30 cr)

BIO 196 Introduction to Cell & Molecular Biology
ENG 116 Effective Writing
(or other ENG)
Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)
7 free options

2. Required Core Courses (15 cr)

BIO 201 Cellular & Molecular Biology
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
BIO336 Animal Physiology 1
BIO 337 Animal Physiology 2

4. Concentration Options (18 cr)

Select any 6 courses from the far right column, a minimum of 5 must be from Biology

5. Free Options (45 cr)

Choose 15 courses from any division to complete your 120-credit degree. 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 Introduction to Evolution and Ecology
BIO 311 Quantitative Methods in Biology
BIO 315 Frontiers of Biology, From Past to Present
BIO 320 Programmed Cell Death
BIO 340 Comparative Anatomy
BIO 341 Population Genetics and Evolution
BIO 349 Medical and Forensic Entomology
BIO 359 Human Genetics
BIO 365 Developmental Biology
BIO 391 Experiential Learning in Health Sciences and Biochemistry
BIO 394 Biology of Cancer
BIO 411 Seminar in Health Sciences
BIO 428 Advanced Physiology
BIO 433 Advanced Exercise Phys
BCH 210 General Biochemistry
BCH 311 Proteins
BCH 312 Lipids and Membranes
BCH 381 Immunology
BCH 382 Environmental Biochemistry and Toxicology
BCH 383 Molecular Biology
BCH 422 Biotechnology
CHM 141 Analytical Chemistry
CHM 211 Organic Chemistry II
EXS 231 Nutrition for Sports and Exercise
EXS 317 Biomechanics of Human Movement
PBI 275 Health Psychology 1
PBI 288 Brain and Behavior 1
PBI 379 Neuropsychology
PBI 380 Psychopharmacology
PSY 213 Research Methods
PMA 360 Advanced Psychological Statistics

**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 2: The Biodiversity and Ecology Concentration**B.Sc. Biology****(Biodiversity and Ecology)*****1. Y1 Year****(All non-Quebec students; 30 cr)**

BIO196 Intro. to Cell &

Molecular Biology

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

ENG 116 Effective Writing (or other ENG)

Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)

Free elective: students may take any free elective or, they may want to consider taking *BIO 207 Introduction to Evolution and Ecology*. Students who did not do well in BIO 196 should not take the above course until their second year when they are better prepared.

2. Required Core Courses (21 cr)

BIO 201 Cellular 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 (15 cr)

BIO 207 Intro. to Evolution and Ecology

BIO 327 Advanced Ecology

BIO 338 Vertebrate Life 1 or

BIO 339: Vertebrate Life 2

BIO 329 Invertebrate Biology

ESG127 Introduction to Physical

Geography

4. Concentration Options (21 cr)

Select any 7 courses from the far right column, including a maximum of 2 non-BIO courses.

5. Science Options (6 cr)

Select any 2 courses from the Division of Natural Sciences and Mathematics (including Biology). All courses must be eligible for Science credit by science students (see individual course descriptions). Students wishing to continue to graduate school may want to consider taking MAT 209 Linear Algebra, or MAT 310 Ordinary Differential Equations, as these will better prepare them for more advanced statistical courses later in their careers.

6. Free Options (27 cr)

Choose 9 courses from any division to complete your 120-credit degree. 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 by 12 cr (4 courses).

BIO 492 Honours Thesis I

BIO 493 Honours Thesis 2

BIO 386 Scientific Writing

BIO 311 Quantitative Methods in Biology

B.A. Biology**(Biodiversity and Ecology)*****1. Y1 Year****(All non-Quebec students; 30 cr)**

BIO 196 Introduction to Cell &

Molecular Biology

ENG 116 Effective Writing (or other ENG)

Humanities option (CLA, ENG, HIS, REL, PHI or Lib. Arts)

7 free options

2. Required Core Courses (15 cr)

BIO 201 Cellular & molecular Biology

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 Intro. to Evolution and Ecology

BIO 338 Vertebrate Life 1 or

BIO 339 Vertebrate Life 2

BIO 329 Invertebrate Biology

ESG 127 Introduction to Physical

Geography

4. Concentration Options (18 cr)

Select any 6 courses from the far right column, a minimum of 5 must be from Biology.

5. Free Options (45 cr)

Choose 15 courses from any division to complete your 120-credit degree. Consider using these free options (along with the Y1 options, if applicable) to fulfill requirements for a second major.

Biodiversity and Ecology**Concentration Options**

BIO 311 Quantitative Methods in Biology

BIO 315 Frontiers of Biology,
From Past to Present

BIO 327 Advanced Ecology

BIO 329 Invertebrate Biology

BIO 331 Freshwater Biology

BIO 332 Vertebrate Zoology

BIO 337 Animal Physiology 2

BIO 341 Population Genetics and
Evolution

BIO 334 Epidemiology

BIO 338 Vertebrate Life 1

BIO 339 Vertebrate Life 2

BIO 340 Comparative Anatomy

BIO 349 Medical and Forensic
Entomology

BIO 352 Microbiology

BIO 354 Insect Biodiversity

BIO 358 Animal Behaviour

BIO 386 Science Writing

BIO 392 Experiential Learning in
Biodiversity & Ecology

BIO 412 Seminars in Biodiversity &
Ecology

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

Minor in Biology (24 credits)

BIO196 Intro. to Cell &

Molecular Biology

BIO 201 Cellular & Molecular Biology

BIO 205 Diversity of Life 1

BIO 206 Diversity of Life 2

BIO 207 Intro. to Evolution and Ecology

BIO 208 Genetics

Any 2 additional Biology courses

**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 338 as a required concentration course, it cannot be counted as one of your concentration options.

List of 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. Courses offered on an occasional basis are indicated with an asterisk (). Students should plan their schedules in advance, in consultation with their Departmental Chair, to ensure that they register for all of the courses required for graduation.*

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.

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

BIO 194 General 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, origin of life, evolution, genetics, reproduction, diversity of life, ecology, and 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.

This course cannot be taken for credit by anyone who already has credit for collegial Biology NYA, BIO 191, BIO 193, BIO 196 or BIO 197.

BIO 196 Introduction to Cell & 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 194.

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, BIO 191, BIO 193 or BIO 194.

Corequisite: BIL 196

BIL 196 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 196

BIO 201 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 196 or collegial general Biology 2/00XU or BIO 194 with a mark of 75% or better

This course may not be taken for credit by anyone who already has credit for Biology 110.

BIO 205 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 194 or BIO 196; Co-requisite: BIL 205

Students with credit for BIO 115 cannot also receive credit for BIO 205.

BIL 205 Diversity of Life I Laboratory 1-0-3

The classification, identification, morphology and biology of the animals considered in BIO 205.

Co-requisite: BIO 205

Students with credit for BIL 115 cannot also receive credit for BIL 205.

BIO 206 Diversity of Life II 3-3-0

Like its companion course BIO 205, 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 205) 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 194 or BIO 205

BIO 207 Introduction to Evolution and Ecology 3-3-0

This course will start by looking at the development of modern evolutionary theory before exploring natural selection and speciation. This course will then explore some of the basic principles of ecology, including species interactions such as predation and competition, and how these interactions help structure the complex web of life that helps form ecological communities and ecosystems. Although intended for Biology majors, students from other programs may also take this course with the instructor's permission.

This course cannot be taken for credit by anyone who already has credit for BIO 197.

BIO 208 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 194 or BIO 196; Co-requisite: BIL 208

Students with credit for BIO 118 cannot also receive credit for BIO 208.

BIL 208 Genetics Laboratory 1-0-3

Experiments in genetics designed to complement topics discussed in BIO 208.

Co-requisite: BIO 208

BIO 211 Sustainable Organic Agriculture 3-3-0

The objective of this course is to introduce students to the concepts and techniques of organic gardening through an integrated and sustainable approach. Subjects covered will include, applied botany, basic soil chemistry, weed control, crop rotation, tillage, ecologically responsible use of fertilizers, and drainage and irrigation practices. The course includes lecture classes as well as practical hands-on activities in biology laboratory JOH 320, JOH greenhouse and the Biology outdoor garden, where students will be expected to apply some of the techniques discussed in class to real life situations.

Pre or Co requisites: BIO205 and BIO206 or with permission of the instructor if the student can demonstrate a suitable background knowledge of the necessary material. Co-requisite BIL211. This course may not be taken for credit by students who have already completed BIL111.

- BIL 211 Sustainable Organic Agriculture Lab 1-0-3**
This lab course requires students to work in small teams on a variety of projects around campus. Central to each project will be the integration of principles learned in the organic agriculture lecture. Examples of such projects might include; the development of an ecologically friendly butterfly garden; integrated plantings to minimize crop damage; design and installation of a bioswale system; or monitoring and control of entomological pests on campus. Students should be aware that most of these projects will involve outdoor field work which includes working in all weather conditions, getting bitten or stung by insects, and in general getting dirty.
Co-requisite: BIO 208
- 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 196 or EXS 127
This course cannot be taken for credit by anyone who already has credit for BIO131, BIO 132, or BIO 133
- BIO 311 Quantitative Methods in Biology 3-3-0**
The main objective of this course is to teach how to use quantitative methods as a tool to answer practical problems in biological sciences. This course focuses on real life situations often encountered by scientists such as how to critically review studies, study design, and statistical output. This course will also cover the statistical and data management methods most often used in biological sciences.
Prerequisite: BIO208 and PHY 101
- BIO 315 Frontiers of Biology, From Past to Present 3-3-0**
This course is for upper year biology students who already have a good understanding of complex concepts like human DNA sequencing, genomics, cell biology, and human anatomy and physiology. Topics covered include the history of genetics and human evolution, cell theory, chromosomes, mitosis and meiosis, human fertilization and heredity, recent advances in pharmacogenomics, genetic selection, and the CRISPR technology for DNA editing. The goal of this course is to broaden student's understanding on the development and acceptance of such discoveries and to ultimately understand that what they learnt in their first 2 or 3 years in biology is knowledge built from several non-linear steps that will likely go on evolving and developing in future years.
Prerequisites: BIO 205 and BIO 208
Students with credit for BIO 319 cannot receive credit for BIO 315.
- BIO 320 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, programmed 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
- BIO 327 Advanced Ecology 3-3-0**
Ecology is about finding the best data/modelling to test your theories and hypotheses. Great ideas, hiking boots and computers are all that are needed. This ecology course focuses on understanding the relationships between organisms and the strategies they use to survive, reproduce, and interact with their environment. This course will expand on the fundamental theories of ecology seen in BIO 207 with the application to real life data and analysis. *Prerequisite: BIO 207*
Students with credit for BIO 217 cannot receive credit for BIO 327.
- BIO 329 Invertebrate Biology 3-3-0**
Morphology, physiology, embryology, evolution and classification of invertebrate animals.
Prerequisite: BIO 205; Co-requisite: BIL 329
Students with credit for BIO 248 cannot also receive credit for BIO 329.
- BIL 329 Invertebrate Biology Laboratory 1-0-3**
The classification, identification, morphology and biology of the animals considered in BIO 329.
Co-requisite: BIO 329
Students with credit for BIL 248 cannot also receive credit for BIL 329.
- BIO 331* 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 205; BIO 207; Co-requisite: BIL 331
- BIL 331* 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 205; BIO 207; Co-requisite: BIO 331
- BIO 334* Epidemiology 3-3-0**
Epidemiology is the study of the distribution and determinants of diseases and health conditions among populations and the application of that study to control health problems. Concepts learned in this course will be applied to current health issues from different perspectives, such as pharma-economy, health care management, disease avoidance and food production.
Prerequisite: BIO 201 and BIO 208
- BIO 336 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 201
Students who have received credit for BIO 226 cannot also receive credit for BIO 336.
- BIO 337 Animal Physiology II 3-3-0**
Mechanisms of functional operation of animal organisms. Topics include: renal, respiratory, gastrointestinal, and reproductive function.
Prerequisite: BIO 208 and BIO 336; Co-requisite: BIL 337
Students who have received credit for BIO 228 cannot also receive credit for BIO 337.
- BIL 337 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 337
Students who have received credit for BIL 228 cannot also receive credit for BIL 337.
- BIO 338 Vertebrate Life I: An Introduction to Ichthyology and Herpetology 3-3-0**
This course is the first of two exploring those animals with a cartilaginous or bony backbone, the vertebrates. Given their great diversity, two courses have been devoted to this group, Vertebrate Life 1 & 2; this is the first of those courses. Vertebrate Life 1 will focus on the fishes, amphibians, and reptiles and is divided into two sections. The first section will explore the evolution of the earliest vertebrates and the myriad of types that we generally refer to as fishes. Part two of the course will look at the colonization of land by the first tetrapods and the rise of the amniotes and will explore the extant groups of amphibians and reptiles. Students may not receive credit for this courses if they have already taken BIO 332 and BIO 367
Prerequisites: BIO 205 and BIO 207
- BIO 339 Vertebrate Life II: An Introduction to Ornithology and Mammalogy 3-3-0**
This course is the second of the series focusing on the evolutionary history and diversity of the vertebrates and will focus on the mammals and birds. From the tiniest hummingbird to the mightiest whale, these two vertebrate groups represent separate evolutionary branches from within the amniote family tree. The course will start by looking at the ancestors of each group, before exploring their evolutionary diversification, and how these distantly related groups have solved similar evolutionary problems. Vertebrate Zoology II may be taken without previously taking Vertebrate Zoology I.
Co-requisite: BIL 339
Prerequisites: BIO 205 and BIO 207
Students may not receive credit for this course if they have already taken BIO 332
- BIL 339 Vertebrate Life II Lab 1-0-3**
This is the co-requisite lab to the BIO 339 Vertebrate Life II. This course will help students develop basic skills in the identification of most of the common vertebrates in the region. Although focusing primarily on the subject matter of the co-requisite lecture, BIO 339 birds and mammals, all vertebrate groups will be explored including fishes, amphibians, and reptiles.
Co-requisite: BIO 339
Prerequisites: BIO 205 and BIO 207
Students may not receive credit for this course if they have already taken BIL 332

BIO 340* Comparative Vertebrate 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 205

BIO 341 Population Genetics and Evolution 3-3-0
Understanding the processes by which selection and genetic variation allows species to adapt and evolve is an important aspect of biology. This course uses a wide spectrum of examples from animal and plant populations to outline the general principles in population and quantitative genetics that will then be applied to important issues in health sciences.
Prerequisite: BIO 208

BIO 349 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 the plague, malaria, West Nile fever, scabies, 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 205

BIO 352 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 201 and BIO 208; Co-requisite: BIL 352

BIL 352 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 352

BIO 354 Insect Biodiversity 3-3-0
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 completed 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 205

BIO 358 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 205, BIO 207

BIO 359 Human Genetics 3-3-0
Cytogenetics, biochemical genetics, Mendelian genetics, molecular genetics and quantitative genetics of humans; chromosome mapping; genetics and medicine.
Prerequisite: BIO 208

BIO 365 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 208 and BIO 201

BIO 386 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.

BIO 391 Experiential Learning in Health Sciences and Biochemistry 3-3-0
Students in the Health Science or Biochemistry 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 Biodiversity & Ecology 3-3-0
Students in the Biodiversity & Ecology 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 394 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 BIO 201

Offered in odd-numbered winters

Students with credit for BIO 224 cannot receive credit for BIO 394

BIO 411 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 Biodiversity & Ecology 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 205, BIO 207
Students with credit for BIO 362 cannot also receive credit for BIO 412.

BIO 421 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 a committee of professors from within the Department of Biological Sciences.

Pre-requisite: Permission of the committee

Students with credit for BIO 371 cannot also receive credit for BIO 421.

Coordinator: Professor Chamoux

BIO 422 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 421, 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 a committee of professors from within the Department of Biological Sciences.

Pre-requisite: Permission of the committee

Students with credit for BIO 372 cannot also receive credit for BIO 422.

Coordinator: Professor Chamoux

BIO 428 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 336; Pre-or Co-requisite: BIO 337

Offered in even-numbered winters

Students with credit for BIO 328 cannot also receive credit for BIO 428.

BIO 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: BIO 336 or EXS 327

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.

BIO 492 Honours Research Project I**3-1-6**

An introduction to the planning, execution and reporting of biological research offered to students matching eligibility criteria. 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%, with a minimal score of 70% in each graded component, is required for enrolment in BIO 493.

Prerequisite: Permission of committee

Co-requisite or prerequisite: BIO 386

Students with credit for BIO 421 cannot also receive credit for BIO 492.

BIO 493 Honours Research Project II**3-1-6**

A continuation of BIO 492 offered to students matching eligibility criteria. 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. Enrolment in BIO 493 is conditional upon completing BIO 493 with a minimum mark of 75%. Satisfactory component, is required to complete the Honours program.

Prerequisite: Permission of committee

Students with credit for BIO 422 cannot also receive credit for BIO 493.

Chemistry

Faculty

Mihai Scarlete,

Ph.D. (McGill), Ph.D. (Politehina Inst., Bucharest); Professor

Dale Wood,

B.Sc., Ph.D. (UNB); Associate Professor

Program Overview

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, 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 in experimental chemistry.

The Chemistry Department has an excellent set of modern instruments, such as a 400 MHz NMR and a GC/MS, which are used by undergraduates in their laboratory courses and in research projects. This is in contrast to most 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.

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.

Table 1. First year of study in the 4-year Chemistry Honours and Major programs

Fall Semester

CHM191 and CHL191
BIO196 and BIL196
PHY191 and PHL191
MAT191
ELA116

Winter Semester

CHM192 and CHL192
PHY192 and PHL192
MAT192
Humanities Option
Humanities Option

Chemistry Honours (84 credits) HONCHE

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, as well as for direct professional employment. The program requires 37 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 15 co-requisite lab courses. The Chemistry Honours degree program 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 70% in the required second year Chemistry courses (CHM 111, CHM 211, CHM 121, CHM 131, CHM 141, CHM 341 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 70% in the third year required Chemistry courses (CHM 311, CHM 225 or CHM 245, CHM 231 or CHM 331 and all co-requisite labs).

Table 2. Honours Chemistry Program¹

	Fall Semester	Winter Semester
Year 2	CHM 111 and CHL 111 CHM 121 CHM 141 and CHL 141 BIO 201 PHY 206 and PHL 206 ²	CHM 211 and CHL 211 CHM 131 CHM 341 and CHL 341 BCH 210 Option ³
Year 3	CHM 311 CHM 231 and CHL 231 ⁴ Science option ⁵ Option ³ Option ³	Chem. Option ⁶ CHM 225 and CHL 225 ⁷ BCH 313 and BCL 313 Option ³ Option ³
Year 4	CHM 331 / CHL 331 ⁴ CHM 471 ⁸ CHM 499 ⁹ BIO 386 ¹⁰ Option ³	CHM 245 and CHL 245 ⁷ CHM 471 ⁸ CHM 499 ⁹ Option ³ Option ³

¹ All Chemistry students must take any two Humanities lecture courses in the first year. Students with a D.E.C. may be credited with these options.

² PHY 206 will be required for non-Cégep students. Cégep students already completed this course. They will replace it by a free science elective.

³ Chemistry Honours students must take one lecture course from the Humanities or the Social Sciences, one science option and one lecture course from any of the Sciences. All other options are free electives. If a course has a co-requisite lab then the lab must be taken as well.

⁴ CHM231 / CHM331 and their co-requisite labs are offered on a rotating basis, so the order in which they are taken may flip

depending on the year the student entered the program.

⁵ Students doing honours are encouraged to take a science option based on the field of their specialization:

Physical chemistry: MAT 108 or PHY 206 or MAT 206

Analytical chemistry: MAT 103 or MAT b310

Organic chemistry: BCH 311 or BIO 208

Environment: MAT 103

⁶ Students registered in the honours program will have to complete a CHM 400 level course in the field of their honours research project as an independent study.

⁷ CHM 225 and CHM 245, and their co-requisite labs are offered on a rotating basis, so the order in which they are taken may flip depending on the year the student entered the program.

⁸ CHM 471 is a full-year, 3-credit course.

⁹ CHM 499 is a full-year, 6-credit research project.

¹⁰ Honours students should register in BIO 386 – Scientific writing. Permission from the instructor is required. If denied, this course can be replaced by a free elective.

Chemistry Major (72 credits) MAJCHE

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.) The four-year Chemistry Major program requires 39 three-credit one-semester courses and one 3-credit full year course for a total of 120 course credits. In addition, students must complete the 18 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, reduce science options to a minimum of 9 credits.

Table 3. Chemistry Major Program¹

	Fall Semester	Winter Semester
Year 2	CHM 111 and CHL 111 CHM 121 CHM 141 and CHL 141 BIO 201 PHY 206 and PHL 206 ²	CHM 211 and CHL 211 CHM 341 and CHL 341 BCH 210 CHM 131 Option ³
Year 3	CHM 231 and CHL 231 ⁴ CHM 311 Option ³ Option ³ Option ³	CHM 225 and CHL 225 ⁵ BCH 313 and BCL 313 Option ³ Option ³ Option ³
Year 4	CHM 331 and CHL 331 ⁴ CHM 371 ⁶ Option ³ Option ³ Option ³	CHM 245 and CHL 245 ⁵ CHM 371 ⁶ Option ³ Option ³ Option ³

¹ All Chemistry students must take any two Humanities lecture courses in their first year of study. Students with a D.E.C. may be credited with these options.

² PHY 206 will be required for non-Cégep students. Cégep students already completed this course. They will replace it by a free science elective.

³ Students must take one course from either the Humanities or the Social Sciences and five lecture courses from any of the Sciences. All other options are free electives. If a course has a co-requisite lab then the lab must be taken as well.

⁴ CHM 231 and CHM 331, and their co-requisite labs are offered on a rotating basis, so the order in which they are taken may flip depending on the year the student entered the program.

⁵ CHM 225 and CHM 245, and their co-requisite labs are offered on a rotating basis, so the order in which they are taken may flip depending on the year the student entered the program.

⁶ CHM 371 is a full-year, 3-credit course.

Chemistry Minor (24 credits) MINCHE

A Chemistry Minor will be awarded for the completion of CHM 111, CHM 211, CHM 121, CHM 131, CHM 141, and their co-requisite labs, together with 3 one-semester 3-credit courses (and their co-requisite labs) chosen from CHM 311, CHM 411, CHM 231, CHM 331, CHM 341, BCH 210 or BCH 313. Students taking a Chemistry Minor have a one-lecture course (3 credits) reduction towards the credits necessary for their degree.

Recommended Electives

MAT 108 and MAT 206 are recommended electives for students pursuing a career in Physical Chemistry.

MAT 103 and MAT 310 are recommended electives for students pursuing a career in Analytical Chemistry.

BCH 311 and BIO 208 are recommended electives for students pursuing a career in Organic Chemistry.

MAT 103 is a recommended elective for students pursuing a career in Environmental Chemistry.

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 Québec

A student must earn a minimum of 55 credits in Chemistry, of which 18 credits must be for laboratory work and 30 credits must be for lecture courses. The OCQ considers 3 credits of course or lab work to be the equivalent of 45 hours of class time and

personal work (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 and thus is equivalent to 3 credits for the OCQ). The chemistry credits offered at Bishop's are divided in the following manner.

1. 9 course credits and 2 lab credits of physical chemistry.
2. 9 course credits and 3 lab credits of analytical chemistry.
3. 9 course credits and 2 lab credits of organic chemistry.
4. 6 course credits and 1 lab credit of inorganic chemistry.
5. 6 course credits and 1 lab credit of biochemistry.
6. 3 course credits on scientific writing.
7. 3 course credits as advanced option in any field of 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 (analytical chemistry, biochemistry, inorganic, organic and physical chemistry).

The core program beyond the first-year level shall include the equivalent of 12 chemistry courses including at least one in each of the five sub-disciplines of chemistry. 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 at least 15 course credits in two or more of mathematics (algebra, calculus, statistics), physics, computer science and biology. In the case of pure chemistry programs, at least 6 credits in each of calculus and physics will be required. The inclusion of other cognate subjects as well as some liberal arts requirements is to be encouraged.

List of Chemistry Courses

General Chemistry

CHM 191 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. Electronic structure of atoms. Periodic Table and properties of elements. Chemical bonds. Physical properties and structure. Chemical kinetics

Co-requisite: CHL 191

CHL 191 Introductory Chemistry Laboratory I 1-0-4

A series of experiments in Introductory Chemistry to complement Chemistry 191 which must be taken concurrently.

Co-requisite: CHM 191

CHM 192 General Chemistry II 3-3-0

A course for students lacking Collegial Chemistry NYB or its equivalent. Solutions. Chemical equilibrium. Acids and Bases. Gases, Solids, and Liquids. Ionic equilibria.

Prerequisites: CHM 191 (or permission of instructor) or Collegial Chemistry

Co-requisite: CHL 192

CHL 192 Introductory Chemistry Laboratory II 1-0-4

A series of experiments in Introductory Chemistry to complement CHM 192 which must be taken concurrently.

Co-requisite: CHM 192

Organic Chemistry

CHM 111 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

CHL 111 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

CHM 211 Organic Chemistry II: Introductory 3-3-0
This course is a continuation of Chemistry 105 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 orbitals are introduced briefly.
Prerequisite: CHM 111 or Collegial Chemistry BFB
Co-requisite: CHL 211

CHL 211 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.

CHM 311 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

CHL 311 Organic Chemistry Laboratory III 1-0-4
Laboratory and spectroscopic techniques used in the synthesis, separation, and purification of simple organic compounds.

CHM 411 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.

CHL 300 Advanced Methods in Organic Chemistry 1-0-4
Advanced laboratory techniques as applied to multistep syntheses and natural product isolation.
Pre-requisite: CHL 311, CHL 211, and CHL 111

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

CHM 225 Inorganic Chemistry II 3-3-0
This course provides students with a survey of inorganic chemistry. The course begins with the general chemistry of the inorganic elements (properties, oxidation states, introduction to their chemistry). This is followed up with two distinct sections. 1) Transition Metal Chemistry will look at crystal and ligand field theory, Werner complexes, and introduce organometallic complexes. 2) Main Group Chemistry will look at the structure and bonding of a selection of compounds from each group of the p-block.
Pre-requisites: CHM 121, CHM 131 / CHL 131, CHM 111 / CHL 111
Co-requisites: CHL 225

CHL 225 Inorganic Chemistry II Lab 1-0-4
This lab is comprised of experiments that provide an illustration of many of the topics covered in CHM 225. It combines experimental methods typical of inorganic chemistry (e.g. inert atmosphere) with the use of the instrumentation necessary to probe the properties of interest (e.g. FT-IR, UV-Vis, Magnetochemistry)
Co-requisites: CHM 225

CHM 245 Instrumental Analysis 3-3-0
This course provides students with in depth coverage of the theory of instrumental methods of analysis. The topics covered will be chromatography theory and chromatographic methods, atomic absorption and emission spectrometry, and electrochemical methods.
Pre-requisites: CHM 121, CHM 131 / CHL 131, CHM 141 / CHL 141
Co-requisites: CHL 245

CHL 245 Instrumental Analysis Lab 1-0-4
This lab focuses mainly on learning to use the Department's extensive suite of chromatographic instrumentation (GC, GC-MS, HPLC, LC-MS) by performing numerous analyses on each instrument. The analyses will illustrate the importance of chromatography as an analytical method by using examples from forensic, environmental, and food and beverage science.
Co-requisites: CHM 245

CHM 421 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-requisite: CHM 225

Physical Chemistry

CHM 131 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.

CHL 131 Physical Chemistry Laboratory I 1-0-4
A series of experiments in Physical Chemistry to complement CHM 131.
Co-requisite: CHM 131

CHM 231 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

CHL 231 Physical Chemistry Laboratory II 1-0-4
Experiments related to the topics of Chemistry 223 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

CHM 331 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
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

CHL 331 Physical Chemistry Laboratory III 1-0-4
Experiments related to topics of CHM 331, 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

CHM 431 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 enrolment)

Pre-requisites: CHM 231 and CHM 331

Analytical Chemistry

CHM 141 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

CHL 141 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

CHM 245 Instrumental Analysis 3-3-0

This course provides students with in depth coverage of the theory of instrumental methods of analysis. The topics covered will be chromatography theory and chromatographic methods, atomic absorption and emission spectrometry, and electrochemical methods.

Prerequisites: CHM 121, CHM 131, CHL 131, CHM 141 and CHL 141

CHL 245 Instrumental Analysis Laboratory 1-0-4

This lab focuses mainly on learning to use the Department's extensive suite of chromatographic instrumentation (GC, GC-MS, HPLC, LC-MS) by performing numerous analyses on each instrument. The analyses will illustrate the importance of chromatography as an analytical method by using examples from forensic, environmental, and food and beverage science.

Co-requisite: CHM 245

CHM 341 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

CHL341 Principles and Practices of Chemical Spectroscopy and Mass Spectrometry Laboratory 1-0-4

Experiments related to topics of CHM 341, which must be taken concurrently by chemistry and biochemistry students.

Co-requisite: CHM 341

CHM 442 Surface and Interface Analysis 3-0-9

This course will provide students with an overview of routine and state-of-the-art analytical methods for the characterisation of surfaces and interfaces. Students will understand how radiation is used to determine properties of surfaces and interfaces. Current applications using peer-reviewed scientific literature will be discussed. Students will understand the underlying principles of the methods discussed and will know how they are applied to real-world problems. Students will be able to critically analyse measurement challenges and propose analytical methodology for the characterisation of surface properties.

Prerequisites: CHM 141, CHL 141, CHM 191, CHL 191, CHM 192, CHL 192, CHM 341, CHL 341

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

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.

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.

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.

CHM 182 The History and Science of Beer and 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.

CHM 183 Experiential Learning Project in Brewing 3-0-9

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 185 The Science of Cooking 3-3-0

Food processing is one of the most common activities worldwide, but do we really know what is happening at the molecular level? This course is a general interest course on the chemistry of cooking and is designed to answer questions such as: Why does plunging food in ice water not stop the cooking process? What is happening when baking? And why does deep-fried food taste best and brown better when the oil is older? A particular emphasis will be placed on understanding what chemical transformations are involved during food processing. This course is normally offered during the spring session.

This course cannot be taken for science credit.

CHM 441 Quality Control and Product Analysis as Exemplified by Beer and Brewing 3-0-9

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

Advanced Courses

CHM 435 Advanced Topics in Organic Chemistry 3-3-0

Advances topics in organic chemistry like stereoselective chemistry, radical chemistry and organometallic chemistry will be introduced through discussions and analysis of representative chemical transformations.

CHM 436 Total Synthesis in Organic Chemistry 3-3-0

In this course we will look at important total synthesis of natural products, analyze the chemical steps and propose alternative routes.

Brewing Science Courses

BRS 401 Brewing Water 3-3-0

Water, referred to as Hot Liquor in brewing jargon, provides the medium in which all of the chemical and biochemical reactions that are involved in producing beer take place. Additionally, the mineral content of the Hot Liquor is a critical factor in determining many of the final characteristics of the beer, provides many of the essential elements for healthy yeast growth, and contributes enormously to mash pH. This course provides an in depth, comprehensive look at water, its properties, and how its mineral contents affect all aspects of beer and the brewing process. Students cannot receive credit for both BRS 401 and BRS 501. If the student intends to enroll in the Graduate Certificate in Brewing Science, they should not take any of the BRS 40x courses because they cannot be counted for credit toward both a B.Sc. and a Graduate Certificate.

BRS 402 Malt and Malting 3-3-0

Malt is produced by the germination of grain (barley, wheat, rye, etc.) followed by application of heat (kilning). It is the heat regimen, together with the type of grain that determines the characteristics of the malt. The malt is the source of the starch that is converted to sugars which the yeast ferments to produce alcohol and it is also primarily responsible for the colour of the beer. Malt is also an important contributor to flavour, aroma, characteristics of the foam (head), mouth feel, and other characteristics of the beer. This course will cover malt from farming and harvesting of the grain, through the transformations of the malting process, to its chemical and biochemical transformations in the brew house. Students cannot receive credit for both BRS 402 and BRS 502. If the student intends to enroll in the Graduate Certificate in Brewing Science, they should not take any of the BRS 40x courses because they cannot be counted for credit toward both a B.Sc. and a Graduate Certificate.

BRS 403 Hops 3-3-0

Hops is the ingredient that contributes the characteristic bitterness of beer. It is also responsible for much of the flavours and aromas of beer, particularly those observed in heavily hopped beers such as India Pale Ale, American Pale Ale, and even hoppy double IPAs. The first section of this course will cover the farming, harvesting and processing of hops. The second section will cover hop chemistry, focusing on the resins (bittering agents) and essential oils (flavour and aroma contributors) of the hop cone and their transformations during the brewing process. Students cannot receive credit for both BRS 403 and BRS 503. If the student intends to enroll in the Graduate Certificate in Brewing Science, they should not take any of the BRS 40x courses because they cannot be counted for credit toward both a B.Sc. and a Graduate Certificate.

BRS 404 Microorganisms in the Brewery 3-3-0

The role of brewer's yeast in the brewing process, particularly its fermentation of sugars to produce alcohol, is fairly well known. However, yeast is also responsible for producing dozens, if not hundreds, of chemical compounds as it metabolizes the sugars, amino acids, and other components during fermentation. Many of these compounds contribute significantly to the flavour and aroma of beer. Other microorganisms, such as wild yeast and bacteria, are also potential contributors to the complex chemistry and biochemistry that occurs in the fermenter; sometimes to the benefit of the beer but more often to its detriment. This course will look at all of the microorganisms that are commonly found in the brewery and provide a detailed description of their chemistry and thus their impact on beer flavour and aroma.

Prerequisites: CHM 211 and BIO 201

BRS 405 Chemical Analysis of Beer and its Ingredients 3-3-0

As a food product, beer is rigorously controlled at both the federal and provincial levels of government. Part of this process is ensuring that a number of analytical parameters are accurately reported (e.g. alcohol by volume). Many other properties of beer are indicators of the efficacy of the brewing process and whether the brewer is producing a quality product. Analysis of the ingredients of beer (water, malt, hops, yeast) is essential to ensure that standards of quality necessary to produce good beer are met. This course will provide students with an in depth look at the chemical analyses commonly used to analyse beer and its precursors, using the methods database of the American Society of Brewing Chemists. Students will use what they learn to analyse the ingredients and the beer that they use / produce in the co-requisite practicum in brewing.

Prerequisites: CHM 141, CHL 141, CHM 245 and CHL 245

BRS 406 The Business of Brewing 3-3-0

There is a great deal of time and hard work that goes into planning, building, equipping, and running even a small microbrewery. When a microbrewery fails, it is generally because the ownership doesn't have a particular skill set, whether it be on the brewing side or on the business side. This course will take students through all of the steps necessary to get a microbrewery from the planning to the operation stage, and also introduce them to the business knowledge necessary for running a successful microbrewery.

Co-requisite: BRS 405

Computer Science

Faculty

Madjid Allili,

B.Sc.(Algiers), M.Sc., Ph.D.(Sherbrooke);
Professor

Layachi Bentabet,

B.Sc.(Eng.National Polytechnic,
Algeria), M.Sc.(Elec.Eng. Institut
national des sciences appliquées, Lyon),
Ph.D.(Sherbrooke);
Professor
Chair of the Department

Stefan D. Bruda,

B.Sc.Eng., M.Sc., Ph.D. (Queen's);
Professor

Lin C. Jensen,

B.Sc. (Stanford), M. Sc. (Concordia);
Lecturer

Program Overview

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) Undergraduate B.Sc. Degree Programs

- I. B.Sc, Honours in Computer Science
- II. B.Sc, Major in Computer Science

2) A multidisciplinary B.A. with a Major in Information Technology (BAIT)

3) Minor in Computer Science

4) 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.

5) Master's Degree Program (see *Graduate Programs* section)

- I. Thesis Option
- II. Project Option

Undergraduate B.Sc. Degree Programs

Honours in Computer Science (120 credits)

HONCSC

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 401, CS 403, CS 409, CS 455, CS 499

15 electives: must include 9 credits from 400-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 401, CS 403, CS 409, CS 455

24 electives: must include 12 credits from 400-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

Major in Computer Science (120 credits)

MAJCSC

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 (MAT 19X cannot count as MAT 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

MAJITC

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 to add a Business program.

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 315, CS 304, CS 307
BCS 220, BHR 221, BMA 140, BMA 141,
BMG 100

Secondary Core [1] (30 credits)

A minimum of 3 courses in Computer Science, normally chosen from the following list:

CS 203, CS 207, CS 230, CS 301, CS 316, CS 321,
CS 325, CS 401, CS 404, CS 405, CS 410, CS 457,
CS 464

A minimum of 3 courses in Business, normally chosen from the following list:

BAC 121, BCS 210, BCS 212, BCS 216, BCS 313,
BMG 214, BMK 211, BMK 214, BMK 291,
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

B.Sc. Coop

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

Students must submit an application to be admitted to the program. Full-time students in any Honours or Major program offered in the Computer Science Department who have completed the online application package, who have successfully completed BMG191 and who have a minimum cumulative average of 70% upon application are admissible into the Co-op Program. Students in the Co-op must maintain their 70% average and be full-time in order to stay in the program.

Work Term Registration

Once a student has signed the Co-operative Education Agreement, he may not drop the course associated with the work placement, except for exceptional circumstances. A student who decides to do so will not be able to stay in the Co-operative Education program.

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 credits)

MINCSC

9 required: CS 201, CS 211, CS 304

15 electives from any CS course

CERTIFICATE PROGRAM

(30 credits)

CONCSC

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 Overview

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 (listed below)
- 9 credits from any CS course
- Group A: CS 203, CS 230
- Group B: CS 214, CS 216, CS 311, CS 315
- Group C: CS 405, 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.

List of Courses

CS 201 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-Neumann 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 201 Foundations of Computer Science Laboratory 1-0-3

This is the practical laboratory for CS 201

CS 203 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 203 Interactive Web Page Design Laboratory 1-0-3

This is the practical laboratory for CS 203

CS 207 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 207 Databases and Dynamic Web Design Laboratory 1-0-3

This is the practical laboratory for CS 207

CS 211 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 211 Introduction to Programming Laboratory 1-0-3

This is the practical laboratory for CS 211

CS 214 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 216 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 216 System Programming Languages Laboratory 1-0-3
Practical work for CS 216 will consist of programming in C and MIPS assembly language.

CS 219 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 230 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 230 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 301 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-based processing of data. Students will be expected to participate in class discussions and role-playing scenarios, and to write a term paper.

CS 304 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 306 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 304 Allow concurrent

CS 307 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 307 Using and Designing Data Bases Laboratory 1-0-3
This is the practical laboratory for CS 307

CS 308 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 378. 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

Prerequisite or Corequisite: MAT 200

CS 311 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, shift registers, counters, sequential circuits), the ALU, memory (RAM, ROM, secondary storage), I/O Devices and the control unit (hardwired, microprogrammed). For those interested students, a follow-up course, largely consisting of lab experiments, is CS 312
Prerequisite: CS 201, CS 211

CSL 311 Computer Organization and Logic Design Laboratory 1-0-3
This is the practical laboratory for CS 311

CS 312 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 311 or equivalent programming and electronic knowledge.

CSL 312 Microcomputer Interfacing Laboratory 1-0-3
This is the practical laboratory for CS 312

CS 315 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 211 or CS 216

Note: See PHY 365. Students may not take this course for credit if they have received credit for PHY 365.

CS 316 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 317 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 318 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 321 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 304 Allow concurrent

CSL 321 Advanced Programming Techniques Laboratory 1-0-3

This is the practical laboratory for CS 321

CS 325 Computer & Network 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

CS 330 Programming 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 375 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 211, 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 379 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 391 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 392 Co-operative Placement II 3-0-0

Students will integrate theory and practice through related work placement

Prerequisite: CS 391

CS 393 Co-operative Placement III 3-0-0

Students will integrate theory and practice through related work placement

Prerequisite: CS 392

CS 394 Stage in Bioinformatics 6-0-0

Students will integrate theory and practice through a related stage.

Prerequisite: CS 372 / BCH 342

CS 400 Independent Studies 3-0-0

Individual study and research under the guidance of an advisor and Department staff.

Prerequisite: Permission of the department

CS 401 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 402 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 304, MAT 108

CSL 402 Computer Graphics Laboratory 1-0-3

This is the practical laboratory for CS 402

CS 403 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 404 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 405 Data Mining 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, 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 models combination. This course includes assignments and a final project where the students are required to perform mining on real datasets.

Prerequisites: PHY 101 (or equivalent)

See PHY 374

Students may not take this course for credit if they have received credit for PHY 374.

CS 406 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 310

This course will be offered on alternate years.

CS 408 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 409 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 304

CS 410 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. Students will be expected to work jointly on several large software projects.
Prerequisites: CS 304, CS 310, CS 321, CS 403 (allow concurrent)

CS 411 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-programmed 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.

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

All special topics courses require CS 211 and CS 304 as a prerequisite and/or any other course as specified by the instructor.

CS 415 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 416 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 417 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 418 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 420 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 409

This course will normally be offered in the summer as an extension course.

CS 455 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 211, MAT 200

CS 457 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 462 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 463 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 464 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 467 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 469 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 471 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

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.

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 ENG 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).

Mathematics

Faculty

Madjid Allili,

B.Sc.(Algiers), M.Sc., Ph.D.(Sherbrooke);
Professor

Thomas Brüstle,

B.Sc., (Ludwig-Maximilians), M.Sc.,
Ph.D. (Zurich), Professor,
Maurice-Auslander Research Chair

François Huard,

B.Sc., M.Sc., Ph.D. (Sherbrooke); Professor

Trevor H. Jones,

B.Sc.H. (Acadia), M.Sc. (Dalhousie),
Ph.D. (University of New Brunswick);
Senior Instructor

Scosha Merovitz,

B.Sc.(Bishop's), M.Sc.(Dalhousie); Coordina-
tor, Math/Stats Help Centre

David Smith,

B.Sc., M.Sc., Ph.D. (Sherbrooke);
Adjunct Professor

N. Brad Willms,

B.Math. M.M., Ph.D. (Waterloo);
Associate Professor
Chair of the Department

Program Overview

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

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	B.A.

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.

Please refer to the Natural Sciences Division page for information on *Divisional Requirements*.

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. The course MAT 190 may not be taken for credit by any student without permission from their department chair. 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 (108 credits for B.Sc., 93 credits for B.A.)

MAJEDM

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 (99 credits for B.Sc., 84 credits for B.A.)

HONMAT

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, ENG 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 will be granted exemption 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, 21 credits of free electives

B.A.: 72 Mathematics, 3 Computer Science, 6 Humanities, 3 Arts and Science options, 36 credits of free electives

Recommended schedule:

	Fall	Winter
Year 1 (for students in a four-year program or lacking some CEGEP requirements)		
	MAT 191 PHY 191 (B.Sc. students) ENG 116 elective (B.A. students) elective elective	MAT 192 PHY 192 (B.Sc. students) Humanities electives elective (B.A. students) elective elective
Year 2	MAT 200 MAT 206 MAT 108 CS 211 elective	MAT 220 MAT 207 MAT 209 elective elective
Year 3	MAT 1xx MAT 313 MAT 322 MAT 3xx elective	MAT 1xx MAT 314 MAT 323 MAT 3xx elective
Year 4	MAT 315 MAT 310 MAT 4xx MAT 46x Elective	MAT 317 MAT 3xx MAT 4xx MAT 46x 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

(81 credits for B.Sc., 66 credits for B.A.)

MAJMAT

Requirements:

U1 (normally) : MAT 191, MAT 192, ENG 116*, Humanities 1xx option*, PHY 191 & PHY 192 (for B.Sc. only)

MAT 108, MAT 200, MAT 206, MAT 207, MAT 209, CS 211, MAT 310, MAT 313, MAT 314, MAT 315, MAT 322

3 credits from the list {MAT 202, MAT 203 OR MAT 220}

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 exemption 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, 6 Humanities, 3 Arts and Science options, 54 credits of free electives.

Recommended schedule:

	Fall	Winter
Year 1 (for students in a four-year program or lacking some CEGEP requirements)		
	MAT 191 PHY 191 (B.Sc. students) ENG 116 elective (B.A. students) elective elective	MAT 192 PHY 192 (B.Sc. students) Humanities elective elective (B.A. students) elective elective
Year 2	MAT 200 MAT 206 MAT 108 CS 211 elective	MAT {202 or 203 or 220} MAT 207 MAT 209 elective elective
Year 3	MAT 1xx MAT 313 MAT 322 elective elective	MAT 1xx MAT 314 MAT 3xx elective elective
Year 4	MAT 315 MAT 310 elective elective elective	MAT 3xx MAT 3xx 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.

(30 credits)

MINMAT

U1 (normally): MAT 191, MAT 192.

MAT 206, MAT 207, MAT 108, MAT 209 or MAT 200 plus 12 additional mathematics credits, including at least 6 credits at the 300 level or higher.

Minor in Mathematical Contexts; B.A. (30 credits) MINMAC

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, 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 (the 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), prerequisite: MAT 190 recommended
MAT 199*	Calculus II (for Life Sciences), prerequisite: 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, prerequisite: MAT 108
MAT 202	Modern Geometry: Euclidean to Fractal, prerequisite: MAT 200
MAT 220	Further Discrete Mathematics, prerequisite: MAT 200
MAT 203	Number Theory
MAT 322	Introduction to Modern Algebra I, prerequisite: MAT 200, MAT 209
MAT 323	Introduction to Modern Algebra II, prerequisite: 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.

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. The course MAT 190 may not be taken for credit by any student without permission from their department chair. Students in Science programs, including Mathematics B.A., may receive a maximum of three credits in elementary statistics courses.

List of Courses

Note: See also the list of cognate courses at the end of this section.

MAT 100 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 enrol in MAT 110 instead of this course. Students may only receive credit for one of MAT 100 or MAT 110.

MAT 101 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 enrol in MAT 111 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.

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 108 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 110 Excursions in Modern Mathematics 3-3-0

This is the same course as MAT 100 but it is intended that science students would enrol 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 111 Further Excursions in Mathematics 3-3-0

This is the same course as MAT 101 but it is intended that science students would enrol in this course and complete assignments that are more appropriate to their needs.

Note: See MAT 101. Students may only receive credit for one of MAT 101 and MAT 111.

MAT 190 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.

Students may only receive credit for this course with consent of their Departmental Chair.

MAT 191 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 191, MAT 197, and MAT 198

MAT 192 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 191 or a grade of at least 70% in MAT 198 or 80% in MAT 197

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 192 and MAT 199

MAT 196 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.

Prerequisite: MAT 190 or equivalent or permission of instructor.

MAT 197 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 198 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 191, MAT 197, and MAT 198

MAT 199 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 198 or MAT 191 or the equivalent, or a grade of at least 80% in MAT 197

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 192 and MAT 199

MAT 200 Introduction to Discrete Mathematics 3-3-0

Combinatorics. Propositional logic. Induction. Sets. Quantifiers. Recursion relations.

MAT 202 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 202 (MAL 202)

Prerequisite: MAT 200

Corequisite: MAL 202

MAL 202 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 202

MAT 203 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 reciprocity, Gaussian integers.

Prerequisite: MAT 200

MAT 206 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 192 or a grade of at least 80% in MAT 199

Corequisite: MAT 108

MAT 207 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 206

MAT 209 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 108

MAT 220 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 200

MAT 310 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 192 or a grade of at least 80% in MAT 199

See PHY 270

Students may not take this course for credit if they have received credit for PHY 270

MAT 311 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 207 and MAT 310

See PHY 371

Students may not take this course for credit if they have received credit for PHY 371

MAT 313 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 206

MAT 314 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 313

MAT 315 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 207

MAT 316 Real Analysis II 3-3-0

The generalized Riemann integral (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-Arzelà theorem. Stone-Weierstrass approximation theorem).

Prerequisite: MAT 315

MAT 317 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 207

MAT 322 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 200 and MAT 209

MAT 323 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 322

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

MAT 325 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.

MAT 326 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

MAT 401 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 \mathbb{R}^n . Inverse function theorem.

Prerequisite: MAT 207

MAT 402 Tensor Analysis 3-3-0

General curvilinear coordinates. Differential forms. Bilinear forms and tensors of rank two. Tensor algebra and tensor calculus.

Prerequisite: MAT 401

MAT 405 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.

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 406 Differential Geometry 3-3-0

Curves in 3-space. Euclidean motions, surface theory. Introduction to differential manifold, Gaussian and mean curvature, imbedding conditions. Geodesics, parallel transport and the Gauss-Bonnet Theorem.

Prerequisite: MAT 207, MAT 310

MAT 414 Regression and Analysis of Variance 3-3-0

Topics in this course will include simple, multiple, polynomial and other nonlinear regression; Analysis of variance and covariance. The course may include data sets from case studies. Students will gain some facility with certain mathematics software packages.

Prerequisite: MAT 314

MAT 421 Graph Theory 3-3-0

An introduction to the combinatorial, algorithmic and algebraic aspects of graph theory.

Prerequisite: MAT 200

MAT 431 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 315, 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. A presentation will constitute a portion of the final grade.

Offered by arrangement

46x level courses are for Honours students only

MAT 460 Topics in Algebra I 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 209, MAT 323 or consent of instructor.

Offered by arrangement.

MAT 461 Topics in Algebra 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 209, MAT 323 or consent of instructor.

Offered by arrangement.

MAT 462 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 316

MAT 463 Topics in Analysis II 3-3-0

Theory of integration. Measurable functions, measures and integrable functions. Lebesgue spaces. Models of convergence. Decomposition and generation of measures. Product measures.

Prerequisite: MAT 316

Offered by arrangement.

MAT 464 Topology 3-3-0

Offered by arrangement.

MAT 465 Topology 3-3-0

Offered by arrangement.

MAT 466 Independent Studies I 3-0-0

Open to final-year honours students by arrangement with the department. A presentation will constitute a portion of the final grade.

MAT 467 Independent Studies II 3-0-0

Open to final-year honours students by arrangement with the department. A presentation will constitute a portion of the final grade.

See MAT 466

MAT 480 Honours Research Dissertation 6-0-0

Each student is required to carry out an original research 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.

Cognate Courses:

The following courses may count as 200-level Mathematics options:

EMA 262 Mathematical Economics I

PHY 208 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 361 Econometrics II

EMA 362 Mathematical Economic II

PHY 318 Advanced Mechanics

Physics & Astronomy

Faculty

Ariel Edery,

B.Sc.(McGill), M.Sc.(Queen's), Ph.D.(Montréal); Professor

Valerio Faraoni,

B.Sc. (University of Pavia, Italy), M.Sc., Ph.D. (International School of Advanced Studies, Italy); Professor

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Adjunct Professor

Faycal Hammad,

B.Sc., M.Sc., Ph.D. (A. Mira-Bejaia);
Adjunct Professor

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Adjunct Professor (Champlain Regional College)

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Lorne Nelson,

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Chair of the Department

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Program Overview

Physics is often regarded as the cornerstone of the Natural Sciences. It encompasses a diverse range of disciplines including astronomy and astrophysics, photonics, electronics, classical and quantum mechanics, statistical mechanics, particle physics, and solid state physics. The **BSc Major** program provides students with a fundamental understanding of physics. The highest level of specialization at the undergraduate level is the **BSc Honours** program. It 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 much deeper appreciation of physics while at the same time training them to become independent researchers and scientists. Graduate supervision is available in a wide variety of disciplines including astrophysics, exoplanetary science, theoretical cosmology and gravitational theory, and particle physics.

First-year Science Core requirements

All Physics students are required to take six course credits of Introductory Physics (PHY 191, PHY 192), six course credits of Introductory Calculus (MAT 191, MAT 192), and six course credits of Introductory Chemistry (CHM 191, CHM 192), normally in their first year. Students with a Québec collegial diploma (DEC) shall be granted advanced credit for these courses if they have completed the Pure Science program. If any of these equivalent

courses were not completed at CEGEP, they must be completed at Bishop's and advanced credits shall be reduced accordingly. Students with a Québec collegial diploma (DEC) may be exempted from MAT 108 (Matrix Algebra) if they obtained high standing in an equivalent course at CEGEP. Students would have to replace this course if they received an exemption.

Humanities requirement (BSc students only)

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 ENG 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 respectively).

Arts and Science requirement (BSc students only)

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.

Please refer to the Natural Sciences Division page for information on **Divisional Requirements**.

Laboratory Courses (BSc students only)

When any lecture course (e.g., PHY 206) also has an associated laboratory course (e.g. PHL 206), both the lecture and laboratory courses should be taken concurrently. Laboratory credits thus obtained are in addition to the total required lecture credits specified below for the program.

Undergraduate Programs

Physics Honours (117 credits) HONPHY

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.

Requirements:

First year Science core requirements as listed above*. The following courses are also 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, PHY 480; MAT 108, MAT 206, MAT 207, MAT 209, MAT 317; CS 211.

Total: **54** lecture-course credits physics, **15** credits math, **3** credits computer science, **15** elective credits = **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**.

N.B.: 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.

**Students with a CEGEP DEC or mature students will be granted advanced credits for these courses as appropriate.*

Physics Major (117 credits) MAJPHY

A Physics Major is less intensive than the Honours program and does not require any 400-level physics courses or MAT 317.

Requirements:

First year Science core requirements as listed above*. The following courses are also required for the 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 math, **3** credits computer science, **30** elective credits = **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.

N.B.: 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.

**Students with a CEGEP DEC or mature students will be granted advanced credits for these courses as appropriate.*

Physics Minor (24 credits) MINPHY

A minor in Physics allows students to gain a solid introduction to the subject.

Requirements:

The following courses are required:

PHY 191, PHY 192, MAT 108, PHY 101, PHY 206, PHY 207, PHY 208 and one other lecture course in Physics selected from 200 and 300 level courses. The total course credit requirement for the minor is **24 lecture-course credits**.

N.B.: 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.

PHYSICS HONOURS DEGREE*Two possible sequences are suggested below*

Year/Semester	SEQUENCE #1		SEQUENCE #2	
	FALL	WINTER	FALL	WINTER
U1	First-year science core credits OR DEC in Pure or Applied Science			
U2	PHY 101 PHY 206 / PHL 206 PHY 270 MAT 108 MAT 206	PHY 208 PHY 207 MAT 207 MAT 209 Option 1*	PHY 101 PHY 206 / PHL 206 PHY 270 MAT 108 MAT 206	PHY 208 PHY 207 MAT 207 MAT 209 Option 1*
U3	PHY 318 PHY 361 CS 211 / CSL 211 PHL 385‡ Option 2* Option 5*	PHY 317 PHY 315 PHY 462 PHL 386‡ Option 3* Option 4*	MAT 317 PHY 320 PHY 316 CS 211 / CSL 211 PHL 387‡ Option 2*	PHY 321 PHY 319 PHY 371 PHY 466‡ PHL 388‡ Option 4*
U4	MAT 317 PHY 320 PHY 316 PHY 480 PHL 387‡	PHY 321 PHY 319 PHY 371 PHY 466‡ PHY 480 PHL 388‡	PHY 318 PHY 361 PHY 480 PHL 385‡ Option 3*	PHY 317 PHY 315 PHY 462 PHY 480 PHL 386‡ Option 5*

* Or one other 400-level course.

‡ One-semester lab course (6 hours per week) worth 2 credits.

* At least 3 credits must be taken in either the Division of Humanities or Social Sciences if a student's program combinations require less than 75 lecture credits.

PHYSICS MAJOR DEGREE*Two possible sequences are suggested below*

Year/Semester	SEQUENCE #1		SEQUENCE #2	
	FALL	WINTER	FALL	WINTER
U1	First-year science core credits OR DEC in Pure or Applied Science			
U2	PHY 101 PHY 206 / PHL 206 PHY 270 MAT 108 MAT 206	PHY 208 PHY 207 MAT 207 MAT 209 Option 1*	PHY 101 PHY 206 / PHL 206 PHY 270 MAT 108 MAT 206	PHY 208 PHY 207 MAT 207 MAT 209 Option 1*
U3	PHY 318 PHY 361 CS 211 / CSL 211 PHL 385‡ Option 2* Option 3*	PHY 317 PHY 315 PHL 386‡ Option 4* Option 5* Option 6*	PHY 320 PHY 316 CS 211 / CSL 211 PHL 387‡ Option 2* Option 3*	PHY 321 PHY 319 PHY 371 PHL 388‡ Option 4* Option 5*
U4	PHY 320 PHY 316 PHL 387‡ Option 7* Option 8*	PHY 321 PHY 319 PHY 371 PHL 388‡ Option 9* Option 10*	PHY 318 PHY 361 PHL 385‡ Option 6* Option 7*	PHY 317 PHY 315 PHL 386‡ Option 8* Option 9* Option 10*

‡ One-semester lab course (6 hours per week) worth 2 credits.

* At least 3 credits must be taken in either the Division of Humanities or Social Sciences if a student's program combinations require less than 75 lecture credits.

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

These courses typically numbers that start at 100 and extend to 399.

Note that 3rd and 4th year physics students may take 400-level courses if they have the prerequisites.

Physics Honours Courses

Final-year Honours physics courses have numbers that start with 462 and end at 480.

Graduate Courses

All graduate MSc courses have numbers that start with 500 or above.

List of Courses

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 314, 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 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 191 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 191 or MAT 198

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 191, PHY 193 or PHY 199F.

PHL 191 Introductory Physics Laboratory I 1-0-3

A series of experiments in General Physics to complement the material covered in PHY 191.

This course must be taken concurrently with PHY 191. May not be taken for credit if credit has been granted for PHL 193.

PHY 192 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 191, PHY 193, or the permission of the instructor.

Corequisite: MAT 192 or MAT 199

This course should be taken concurrently with PHL 192. 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 192, PHY 194 or PHY 199F.

PHL 192 Introductory Physics Laboratory II 1-0-3

A series of experiments in General Physics to complement the material covered in PHY 192.

This course must be taken concurrently with PHY 192. May not be taken for credit if credit has been granted for PHL 194.

PHY 193 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 191 or MAT 198

This course should be taken concurrently with PHL 193. 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 191, PHY 193, and PHY 199F

PHL 193 Physics for the Life Sciences Laboratory I 1-0-3

A series of experiments in college physics to complement the material covered in PHY 193.

This course must be taken concurrently with PHY 193. May not be taken for credit if credit has been granted for PHL 191.

PHY 194 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 191 or PHY 193 or the permission of the instructor.

Corequisite: MAT 192 or MAT 199

This course should be taken concurrently with PHL 194. 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 192, PHY 194, and PHY 199F

PHL 194	Physics for the Life Sciences Laboratory II	1-0-3
A series of experiments in college physics to complement the material covered in PHY 194. <i>This course must be taken concurrently with PHY 194. May not be taken for credit if credit has been granted for PHL 192.</i>		
PHY 199F	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. <i>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.</i> <i>Corequisite: PHL 199</i> <i>Students may not have credit for both PHY 199 and other introductory physics courses (i.e., PHY 191 and PHY 192 or their equivalents).</i>		
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. <i>Corequisite: PHY 199</i> <i>Students may not have credit for both PHL 199 and other introductory physics laboratory courses (i.e., PHL 191 and 192 or their equivalents).</i>		
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. <i>Prerequisite: PHY 191 or PHY 193</i> <i>Corequisite: PHL 206</i>		
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. <i>Prerequisite: PHY 191 (or equivalent)</i>		
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. <i>Prerequisite: PHY 191 or equivalent and PHY 270 (or equivalent), or permission of the instructor</i>		
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. <i>Prerequisite: PHY 191 (or equivalent), MAT 191 (or equivalent), or permission of the instructor.</i>		
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. <i>Corequisite: MAT 206</i> <i>Note: See MAT 310. Students may not take this course for credit if they have received credit for MAT 310.</i>		

PHY 273	Observational Astronomy I	3-3-0
Students will become familiar with modern astronomical techniques through a combination of theoretical and hands-on experience. Techniques covered include CCD observations of stars, planets and galaxies, photometry, and spectroscopy. Students will use the Bishop's 0.45 m telescope to take observations of various targets. Student projects may include: determination of the distances and ages of star clusters; measurements of the variability of stars and quasars; determination of the orbital periods of binary systems; measurements of the mass of Jupiter and galaxies; and determination of the Hubble constant. <i>Prerequisite: Permission of the Instructor</i>		
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. <i>Corequisite: PHY 208</i> <i>Offered alternate years</i>		
PHY 316	Physical and Contemporary Optics	3-3-0
Wave theory, polarization, interference diffraction. Basics of coherence theory, lasers, holography. Quantum nature of light. <i>Prerequisite: PHY 206</i> <i>Offered alternate years</i>		
PHY 317	Statistical Mechanics	3-3-0
The statistical definition of entropy and temperature. Statistical Ensembles. The Planck and Maxwell-Boltzmann distributions. The Fermi and Bose distributions. Thermodynamic state functions. Applications of Fermi-Dirac and Bose-Einstein statistics. <i>Pre or Co-requisites: PHY 207</i> <i>Offered alternate years</i>		
PHY 318	Advanced Mechanics	3-3-0
Central forces. Newtonian gravitation: planetary orbits and tides. The Lagrangian and Hamilton's Principle. Liouville's Theorem. Poisson brackets. Hamilton-Jacobi Theory. Theory of vibrations and small oscillations (normal modes). Dynamics of macroscopic bodies. <i>Pre or Co-requisites: Physics 208, Physics 270, or permission of the instructor.</i> <i>Offered alternate years</i>		
PHY 319	Electric Circuits and Electronics	3-3-0
Review of D.C. circuits, Kirchhoff'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. <i>Prerequisite: PHY 192 or NYB or permission of instructor.</i> <i>Note: See CS 379.</i> <i>Students may not take this course for credit if they have received credit for CS 379.</i>		
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. <i>Prerequisite: PHY 192, PHY 208; MAT 207</i> <i>Offered alternate years</i>		
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. <i>Prerequisite: PHY 320</i> <i>Offered alternate years</i>		
PHY 335	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. <i>Prerequisites: PHY 207.</i>		
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. <i>Corequisite: PHY 318, or permission of the instructor.</i> <i>Offered alternate years</i>		

PHY 365	Data Communications	3-3-0	PHL 385	Intermediate Physics Lab I	2-0-6
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. <i>Prerequisite:</i> CS 211, or permission of the instructor. <i>Note:</i> See CS 315. Students may not take this course for credit if they have received credit for CS 315.			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. <i>Offered alternate years</i>		
PHY 371	Mathematical Methods of Physics	3-3-0	PHL 386	Intermediate Physics Lab II	2-0-6
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. <i>Prerequisites:</i> MAT 207 and MAT 310 or PHY 270 <i>Note:</i> See MAT 311. Students may not take this course for credit if they have received credit for MAT 311.			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. <i>Offered alternate years</i>		
PHY 374	Data Mining for Scientists	4-3-3	PHL 387	Intermediate Physics Lab III	2-0-6
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. <i>Prerequisites:</i> PHY 101 (or equivalent) See CS 305 Students may not take this course for credit if they have received credit for CS 305.			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. <i>Offered alternate years</i>		
PHY 375	Numerical Methods	3-3-0	PHL 388	Intermediate Physics Lab IV	2-0-6
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. <i>Prerequisites:</i> CS 211, MAT 108, MAT 207 <i>Note:</i> 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.			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. <i>Offered alternate years</i>		
PHY 376	Calculus of Variations	3-3-0	PHY 462	Quantum Mechanics II	3-3-0
Euler-Lagrange equations for constrained and unconstrained single and multiple 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. <i>Prerequisite:</i> Permission of the Instructor <i>Note:</i> See MAT 405. Students may not take this course for credit if they have received credit for MAT 405.			Theory of angular momentum, matrix mechanics and applications of quantum mechanics to various branches of physics. Perturbation theory, scattering, molecular applications, and Hartree-Fock Theory. <i>Prerequisite:</i> PHY 361		
PHY 378	Scientific Programming	3-3-3	PHY 463	Nuclear Physics	3-3-0
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. <i>Prerequisite:</i> CS 404, or permission of the instructor <i>Note:</i> See CS 308. Students may not take this course for credit if they have received credit for CS 308.			Nuclear structure and systematics; alpha emission, beta decay, gamma emission, two-body systems and nuclear reactions; neutron physics; sub-nuclear particles. <i>Prerequisite:</i> PHY 361		
PHY 380	Experiential Learning in Astronomy	3-3-0	PHY 464	Condensed Matter Physics	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.			Topics to be studied include the one-electron theory of solids, energy bands, lattice vibrations, transport theory, and thermodynamic properties. <i>Prerequisite:</i> 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. <i>Prerequisite:</i> PHY 321		
			PHY 466	Theoretical Topics	3-3-0
			Topics to be studied will be selected from the areas of special and general relativity, classical and quantum mechanics, particle physics, astrophysics and cosmology. In particular, the covariant nature of physics and various physical symmetries will be investigated. <i>Prerequisites:</i> PHY 317, PHY 318; or the permission of the instructor		
			PHY 467	Advanced 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. <i>Prerequisite:</i> PHY 317		
			PHY 469	Independent Studies I	3-0-0
			Topics to be determined by the instructor based on student's needs.		
			PHY 470	Independent Studies II	3-0-0
			Topics to be determined by the instructor based on student's needs.		
			PHY 471	Independent Studies III	3-0-0
			Topics to be determined by the instructor based on student's needs.		
			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, an oral thesis defense, and a written dissertation.

Prerequisite: U3 Honours Physics registration or permission of the department.

Pre-Medicine Double Major (B.Sc)

Faculty

Administered by the
Chair of Biology

Program Overview (75 credits)

MAJMED

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 most Canadian and 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

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. Pre-medicine double major:

- 60 completed course credits (not including lab credits), including advanced credits
- An overall average of 75%. Students must maintain this average to graduate from the 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). Students lacking any of these courses can take their equivalents at Bishop's, and their advanced credits will be reduced accordingly.

Program Requirements

1. B.Sc. Y1 Year (27 credits; non-Quebec students)

BIO 196	Introductory Biology I: Introduction to Cellular and Molecular Biology
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
ENG 116	Effective Writing (or other ENG)
HUM (CLA, ENG, HIS, REL, PHI or Lib. Arts)	

Note: Some Quebec medical schools require PHY 206 Waves and Optics in addition to PHY 193 and PHY 194. Students should research their preferred medical school to confirm whether or not they should take PHY 206.

2. Pre-Medicine Required Courses: (36 Credits)

The following courses must be taken in order to meet the requirements of the major.

BCH 210	General Biochemistry
BCH 313	Metabolism
BIO 201	Cell and Molecular Biology
BIO 233	Human Anatomy
BIO 336	Animal Physiology I
BIO 337	Animal Physiology II
CHM 111	Organic Chemistry I
CHM 211	Organic Chemistry II
PHY 101	Statistical Methods in Experimental Science
PSY 101	Introduction to Psychology
PSY 102	Introduction to Psychology II
SOC 101	Introduction to Sociology

3. Pre-Medicine Required Options: (12 Credits)

Note: These courses must be taken in addition to the Y1 Humanities and English requirements.

At least 2 Second Language Courses.

At least 2 Courses in English Literature. This includes courses in literature and comprehension, not writing or composition.

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 208	Genetics
BIO 311	Quantitative Methods in Health Sciences
BIO 320	Programmed Cell Death
BIO 428	Advanced Physiology
CHM 121	Structure and Bonding
CHM 131	Physical Chemistry I
CHM 141	Analytical Chemistry
CHM 311	Organic Chemistry III
CLA 170	Greek and Latin Terminology for Medicine and the Life Sciences
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, Environment 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 enrol 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 / 141 Information Retrieval and Evaluation Skills
for the Social Sciences (Lab)**
(Not mandatory unless indicated)

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.

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

Faculty

Keith Baxter,

B.A. (R.M.C.), M.A. (Toronto); Senior Instructor

Terry Eyland,

B.B.A. (Bishop's), M.A. (Ottawa),
PhD. (HEC Montréal); Associate Professor
Chair of the Department

Robert A. Sproule,

B.E.S. (Waterloo), M.A. (Alberta), Ph.D.
(Manitoba); Professor

Marianne Vigneault,

B.A. (Bishop's), M.A. (Queen's), Ph.D. (Queen's);
Professor

Program Overview

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, Political Economy 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 understanding 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 International Political Economy.

Entrance Requirements

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

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

Honours Economics (63 credits) HONECO

The Honours B.A. program in Economics consists of 120 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 75% in all ECO and EMA courses. Requirements of the program are:

Quantitative Methods	6 credits
Mathematics	9 credits
Required courses in Economics	24 credits
Elective courses in Economics**	24 credits
Free Electives*	57 credits
Total	120 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.

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

Mathematics

MAT 196 Finite Mathematics for Business Students

plus:

MAT 191 Enriched Calculus I **and**
MAT 192 Enriched Calculus II

OR

MAT 197 Calculus for Business and Economics **and**
EMA 262 Mathematical Economics

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
ECO 342 Advanced Macroeconomics
ECO 343 Advanced Microeconomics
ECO 361 Applied Economic Analysis

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.

Major Economics (45 credits) MAJECO

The Major B.A. program in Economics consists of 120 credits + ILT 104 (1 lab credit). Requirements of the program are:

Mathematics	6 credits
Quantitative Methods	6 credits
Required courses in Economics	15 credits
Elective courses in Economics*	18 credits
Free Electives**	75 credits
Total	120 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.

Information Retrieval

ILT 104 Information Retrieval and Evaluation Skills for the Social Sciences

Mathematics (6 credits)

MAT 196 Finite Mathematics for Business Students
MAT 197 Calculus for Business and Economics **OR**
MAT 191 Enriched Calculus I

Quantitative Methods (6 credits)

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
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 105	Behavioural Economics
ECO 200	Money and Banking
ECO 204	Labour Economics
ECO 217	International Economics
ECO 270	Public Economics
ECO 305	Game Theory
ECO 308	Managerial Economics
ECO 322	Real Estate 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 105	Behavioural Economics
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 125	Economic Development I: Human Development Problems and Policies
ECO 175	Economic Geography
ECO 217	International Economics
ECO 225	Economic Development II: Macroeconomic and Policy Issues
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

Minor in Economics MINECO

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.*

Honours in International Political

Economy (60 credits)

HONPEC

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 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.

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
ECO 270	Public Economics

One of the following courses:

ECO 125	Economic Development I: Human Development Problems and Policies
ECO 175	Economic Geography
ECO 217	International Economics
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 Comparative Politics
POL 140	Introduction to International Relations
POL 240	International Political Economy
POL 361	Techniques of Empirical Research

Plus two of:

POL 229	History of Political Philosophy - Modern
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:

One POL 400 level course

Plus Free Elective Courses in Politics and International Studies:
9 credits (3 POL courses)

Note that some of these courses may have prerequisites or, alternatively, require permission from the instructor.

To enter and remain in the Honours program, students must normally attain a cumulative average of 75% in program courses. Honours students who do not meet this average requirement at graduation will automatically revert to the Major program.

Major in International Political Economy (48 credits) MAJPEC

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.

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 125 Economic Development I: Human Development Problems and Policies
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

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 Comparative Politics
POL 140 Introduction to International Relations
POL 240 International Political Economy

Plus two of:

- POL 229 History of Political Philosophy - Modern
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 (3 POL courses)

Note that some of these courses may have pre-requisites or, alternatively, require permission from the instructor.

List of Courses

ECO 102 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 103 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 105 Behavioural Economics 3-3-0

This course introduces students to the relatively new field of behavioural economics. It goes beyond the rational behaviour seen in typical economics courses and studies models that are combined with psychologically plausible assumptions of behaviour. Topics will include choice under risk and uncertainty, bounded rationality, intertemporal choice, behavioural choice, behavioural game theory, procrastination, altruism, and reciprocity.

ECO 109 Economic Policy 3-3-0

Economics is studied for its policy implications. This course will examine problems, policies, institutions, and controversies in public policy regarding the economy in Canada from both an analytical and a historical perspective.

ECO 115 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.

ECO 118 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.

ECO 119 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: ECO 102

ECO 125 Economic Development I: Human Development Problems and Policies 3-3-0

The course provides an introduction to the concept of economic development and an analysis of domestic problems facing developing countries, including poverty and inequality, population growth, education, rural development, unemployment, and the environment.

ECO 126 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 175 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 200 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 204 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 206 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 208 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 209 Intermediate Microeconomics II 3-3-0
Consumer Theory, Decision Theory under Risk and Uncertainty, Information, and Microeconomic applications.

Prerequisites ECO 208

ECO 210 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 212 Intermediate Macroeconomics 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 217 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 224 Sports Economics 3-3-0
The course applies microeconomic principles to analyze sports. Among the topics covered are the market for sports, the market for talent, pricing decisions, labour relations, and the role of public policy. The field draws from several important subfields of microeconomics, including game theory, industrial organization, public economics, labour economics, and the economics of information.

Prerequisites: ECO 102

ECO 225 Economic Development II: Macroeconomic and Policy Issues 3-3-0

An introduction to models of economic growth. 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. An introduction to the techniques of evaluating development projects.

Prerequisites: ECO 102 and ECO 103

ECO 237 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.

ECO 251 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.

Prerequisites: ECO 102 and ECO 103

Offered in rotation with ECO 280

ECO 260 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 270 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 280 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 305 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 308 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 and BMA 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 322 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 336 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 337 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

- ECO 342 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 212, EMA 261 and EMA 262 or equivalent
- ECO 343 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 and EMA 262 or equivalent
- 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 351 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
- ECO 365 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, EMA 261
- ECO 370 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

Courses for Mathematics

- BMA 140 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
- BMA 141 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 261 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, and BMA 141
- EMA 262 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 and MAT 192 or MAT 197
Cross-listed with MAT 172
- EMA 361 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 362 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 262, 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, Environment and Geography and Political Studies. Consult the Chairman of the Department for the full range of possibilities.

Environment and Geography

Faculty

Darren Bardati,

B.A.(Bishop's), M.A., Ph.D.(McGill); Professor
Chair of the Department

Thomas Fletcher,

B.A.(Louisiana State), M.A.(Maryland), Ph.D.(McGill);
Professor

Norman K. Jones,

B.A. (McMaster), M.Sc. (Alberta), Ph.D. (Waterloo);
Professor

Elisabeth Levac,

B.Sc., M.Sc. (UQAM), Ph.D.(Dalhousie);
Professor

Matthew Peros,

B.Sc. (Toronto), M.Sc. (York), Ph.D.(Toronto); Professor,
Tier II Canada Research Chair in Climate and Environmental
Change

Program Overview

The Department of Environment and Geography offers a wide variety of courses focusing on the intersection of humans and the natural environment. In order for a complete understanding of the human-environment interactions, students need to understand the science of the natural world, and the impacts humans are having on their environment, whether they be at a local, regional or global scale. We must understand how and why the environment is changing. Climate change, acid precipitation, ozone depletion, waste management, food systems, and water conservation are issues which require thorough examination in or 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.

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 and AGR courses should be prepared to devote time to fieldwork outside of normal class time. Details of field studies will be discussed within individual courses.

Environment and Geography Programs

Environmental Studies

B.A. Honours in Environmental Studies, 60 credits

B.A. Major in Environmental Studies, 48 credits

Minor in Environmental Studies, 24 credits

B.Sc. Environmental Science

B.Sc. Honours in Environmental Science, 81 credits

B.Sc. Major in Environmental Science, 75 credits

Minor in Environmental Science, 24 credits

B.A. Geography

B.A. Honours in Geography, 60 credits

B.A. Major in Geography, 45 credits

Minor in Geography, 24 credits

Sustainable Agriculture and Food Systems

B.A. Major Sustainable Agriculture and Food Systems*

B.A. Honours Sustainable Agriculture and Food Systems*

B.Sc. Major Sustainable Agriculture and Food Systems*

B.Sc. Honours Sustainable Agriculture and Food Systems*

Minor in sustainable Agriculture and Food Systems, 24 credits

**At the time of printing, the B.A. and B.Sc. Majors and Honours programs in Sustainable Agriculture and Food Systems (SAFS) were under external review. Currently, only the SAFS Minor and Certificate programs are offered.*

Certificate Programs

Certificate in Environmental Studies and Geography, 30 credits

Certificate in Sustainable Agriculture and Food Systems, 30 credits

Graduate-level Micro-Program in Climate Change, 9 credits

(see graduate programs section of the Academic Calendar)

NOTES:

1. All AGR coded courses may count as ESG electives for the EST, GEO or ENV majors, honours and minors.
2. You cannot major in either EST, GEO or ENV and minor in any of EST, GEO or ENV at the same time, due to the abundant overlap in courses. However, you can major in either EST, GEO or ENV and minor in AGR.
3. For B.A. programs, you must take a 3-credit course from the Division of Natural Sciences to fulfil your divisional requirement.

B.A. Environmental Studies**Environmental Studies Major
(48 credits) MAJEST****Core (8 courses or 24 credits)**

ENG 116 Effective Writing (or any University-level English literature 3-credit course)

ESG 100 Intro to Env Studies

ESG 126 Intro Human Geography

ESG 127 Intro Physical Geography

ESG 260 Research Methods

ESG 261 Quant. Methods (or one of the following: BMA 140, PMA 260, or PHY 101)

ESG 262 Intro to GIS

ESG 300 Environmental Studies Seminar

Additional required: Any 8 courses (24 credits) from the ESG department

**Environmental Studies
Honours (60 credits) HONEST**

Same as Environmental Studies Major, plus:

Core (2 courses or 6 credits)

ESG 461 Honours Proposal

ESG 462 Honours Thesis

Additional required: Any 2 courses (6 credits) from the ESG department

**Environmental Studies Minor
(24 credits) MINEST****Core (3 courses or 9 credits)**

ESG 100 Intro to Env Studies

ESG 126 Intro Human Geography

ESG 127 Intro Physical Geography

Additional required: Any 5 courses (15 credits) from the ESG department

B.A. Geography**Geography Major
(45 credits) MAJGEO****Core (5 courses or 15 credits)**

ESG 126 Intro Human Geography

ESG 127 Intro Physical Geography

ESG 260 Research Methods

ESG 261 Quant. Methods (or one of the following: BMA140, PMA260, or PHY101)

ESG 262 Intro to GIS

Additional required: Any 10 courses (30 credits) from the ESG department

**Geography Honours
(60 credits) HONGEO**

Same as Geography Major, plus:

Core (2 courses or 6 credits)

ESG 461 Honours Proposal

ESG 462 Honours Thesis

Additional required: Any 3 courses (9 credits) from the ESG department

**Geography Minor
(24 credits) MINGEO****Core (2 courses or 6 credits)**

ESG 126 Intro Human Geography

ESG 127 Intro Physical Geography

Additional required: Any 6 courses (18 credits) from the ESG department

**Certificate in Environmental
Studies and Geography
(30 credits) CONESG**

ESG 100 Intro to Env Studies

ESG 126 Intro Human Geography

ESG 127 Intro Physical Geography

Additional required: Any 7 courses (21 credits) from the ESG department.

B.Sc. Environmental Science**Environmental Science
Major (75 credits) MAJENV****Core (13 courses or 39 credits)**

MAT 198 Calculus I (for Life Sciences)

MAT 199 Calculus II (for Life Sciences)

PHY 193 Physics for Life Sciences I & Lab
PHL 193

PHY 194 Physics for Life Sciences II & Lab
PHL 194

CHM 191 General Chemistry I & Lab
CHL 191

CHM 192 General Chemistry II & Lab
CHL 192

BIO 196 Intro to Mol & Cell Bio I & Lab
BIL 196

BIO 207 Intro to Evolution & Ecology

ESG 100 Intro to Env Studies

ESG 127 Intro to Physical Geography

ESG 260 Research Methods

ESG 261 Quant. Methods
or PHY101 Statistical Methods

ESG 262 Intro to GIS

Additional required DNS courses:

Any 5 courses (15 credits) from this list:

PHY 206 Waves and Optics & Lab PHL 206

PHY 207 Thermal and Fluid Physics

CHM 111 Organic Chemistry I & Lab CHL 111

CHM 141 Analytical Chemistry & Lab CHL 141

BIO 211 Sustainable Org Ag & Lab BIL 211

BIO 205 Diversity of Life I & Lab BIL 205

BIO 206 Diversity of Life II

BIO 331 Freshwater Biology & Lab BIL 331

BIO 327 Advanced Ecology

Additional required ESG courses:

Any 7 courses (21 credits) from this list:

ESG 226 Physical Oceanography

ESG 227 Biogeochemical & Environmental
Oceanography

ESG 250 Geomorphology

ESG 251 Soils & Vegetation

ESG 263 Intro to Remote Sensing

ESG 265 Atmosphere & Weather

ESG 269 Earth's Crust

ESG 349 Watershed Management

ESG 354 Environmental Impact Assessment

ESG 361 Glacial Environments

ESG 362 Advanced GIS

ESG 363 Natural Hazards

ESG 364 Field Course

ESG 365 Mid-Latitude Weather Systems

ESG 367 Climate Change

**Environmental Science
Honours (81 credits) HONENV**

Same as Environmental Science Major, plus

Core (2 courses or 6 credits)

ESG461 Honours Proposal

ESG462 Honours Thesis

**Environmental Science
Minor (24 credits) MINENV****Core (3 courses or 9 credits)**

ESG100 Intro to Env Studies

ESG127 Intro Physical Geography

ESG261 Quant. Methods

OR

PHY101 Statistical Methods

Additional required DNS courses:

Any 3 courses (9 credits) from the list of additional required DNS courses for the Environmental Science Major

Additional required ESG courses:

Any 2 courses (6 credits) from the list of additional required ESG courses for the Environmental Science Major

Sustainable Agriculture and Food Systems (SAFS)

Minor in Sustainable Agriculture and Food Systems (24 credits) MINAGR

AGR 100 Intro to Sustainable Agriculture and Food Systems

AGR 104 Edible History of Humanity

AGR 333 Climate Change, Agriculture and Food Security

Additional required: Any 5 courses (15 credits) from the list of AGR coded courses

Certificate in Sustainable Agriculture and Food Systems (30 credits) CONAGR

AGR 100 Intro to Sustainable Agriculture and Food Systems

AGR 104 Edible History of Humanity

AGR 333 Climate Change, Agriculture and Food Security

Additional required: Any 7 courses (21 credits) from the list of AGR coded courses

List of Courses

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

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 226 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 environment 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

ESG 263 Introduction to Remote Sensing 3-3-0

An introduction to remote sensing including concepts and techniques, including air photo interpretation, satellite imagery and others, and their application in earth observation and analysis. Experiential learning is a part of this course, allowing student to do measurements and analysis using remote sensing instruments to apply and improve the theoretical knowledge acquired during class.

Prerequisites: ESG 126 and ESG 127

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

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

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: Any one of 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 Environmental Studies

ESG 339 The Canadian Arctic 3-3-0

The ecology of traditional Eskimo occupancy; socio-economic change through contact with explorers, whalers, 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: Any one of 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: Any one of ESG 100, ESG 126, ESG 162 or ESG 163

ESG 346 Independent Study I / Internship I 3-0-0

The student is required to select an independent research project or internship, and, under the supervision of a faculty member, complete a formal report. Open to U3 majors and honours students at the discretion of the Department.

ESG 347 Independent Study II / Internship II 3-0-0

The student is required to select an independent research project or internship, and, under the supervision of a faculty member, complete a formal report. 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.

ESG 349 Watershed Management 3-3-0

This course examines integrated water management, including assessment of biophysical freshwater systems, implications of natural resource development and land use on water quality and quantity, climate change impacts, water security, 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

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

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

ESG 362 Advanced Geographic Information Systems 3-3-0

Project-based applications stress the utility of advanced GIS analysis in environment 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: Any one of ESG 250, ESG 269 or ESG 265

ESG 364 Field Course in Environment 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 forecasting 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 Environment 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 Environment and Geography.

ESG 461a Honours Research Proposal 3-0-0

An introduction to the planning, execution and reporting of Environment and Geography 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 Environment and Geography.

Prerequisite: ESG 461 and permission of the Department

AGR courses:

AGR-coded courses are associated with the Sustainable Agriculture and Food Systems (SAFS) programs. Not all AGR-coded courses will be offered until the full majors and honours programs are launched. However, students in GEO, EST and ENV major, honours and minor programs can take AGR-coded courses as electives that will count toward their degree.

AGR 100 Introduction to Sustainable Agriculture and Food Systems 3-3-0

Conventional, industrial agriculture and fisheries are the source of the majority of our food, but are increasingly linked to economic injustice, loss of food security, and poor health, while also being criticized for being unsustainable, causing environmental degradation. Alternative food systems are emerging, providing innovative, sustainable, local, and organic solutions. This course provides an interdisciplinary survey of the environmental, social, economic and cultural aspects of agriculture and food, and outlines some of the emerging sustainable food systems. This course will help students develop an informed critique of conventional agricultural systems. This course will also provide practical advice for becoming a part of the revolution in agriculture and food systems, and will introduce the topics and skills to be learned during the rest of the program in sustainable agriculture and food systems.

AGR 104 An Edible History of Humanity 3-3-0

This course traces food through human history. Topics include: how the Neolithic period transformed hunter-gatherers to agriculturalists; how sedentary societies that store food create inequalities in wealth and power; how specialty products such as beaver-pelts and spices motivated exploration and colonization; how crops and fossil fuels expanded agricultural productivity, allowing many people to pursue non-farming occupations; how political leaders use power over food supply to mobilize armies and to crush dissent, and currently; how the 20th century Green Revolution solved some problems but now creates new ones.

AGR 130 Environmental Implications of Agriculture 3-3-0

When agricultural operations are sustainably managed, they preserve and even restore critical habitats, protect watersheds, and maintain soil health and water quality. On the other hand, some of the negative environmental impacts from unsustainable farming practices include: land conversion, deforestation and habitat loss, wasteful water consumption, soil erosion and degradation, pollution and contaminated runoff, climate change, genetic erosion and loss of resilience, toxicity to pollinators and other critical eco-system damage. This course will expose students to the effects of these impacts, positive and negative, and introduce various indicators of environmental impact based on farmer's production methods, and the impact these methods have on emissions to the environment. The goal is an introductory ability to assess environmental impact at the farm level.

AGR 171 Permaculture Design I: Design Principles 3-0-3

This course introduces students to permaculture design principles. Derived from "permanent agriculture", permaculture is the design and maintenance of agriculturally productive ecosystems which have the diversity, stability, and resilience of natural ecosystems. Permaculture is a multidisciplinary approach that utilizes systems thinking, as well as landscape design techniques, to create plans for food production, water use, energy use and habitat that mimic patterns observed in nature. Permaculture designs must be deeply rooted in the particular place in which they occur: geography, ecology, climate, culture, economy, and the needs and priorities of the resident human community. Permaculture is applicable to a wide range of places, such as urban lots, schoolyards, municipal parks, and rural farms all over the planet, so students will be well-equipped to apply these principles in a variety of socio-economic and environmental contexts. This course follows a standard worldwide format. Students who successfully complete AGR 171 and AGR 172 will obtain the internationally-recognized "Permaculture Design Certificate (PDC)".

AGR 172 Permaculture Design II: Design Project 3-3-3

AGR 172 is a follow-up course to AGR 171. Permaculture is an integrated design system for human food production, water and energy use, modeled on nature. AGR 172 is a continuation and deepening of the design principles and applications covered in AGR 171. Students in AGR 172 will perform various permaculture design practices in a variety of settings, for various needs. The course involves hands-on work, in the lab and in the field, and requires completion of a significant design project. Students who complete both AGR 171 and AGR 172 will obtain an internationally-recognized "Permaculture Design Certificate (PDC)", enabling them to work as a certified permaculturalist. An extra fee is required for the certificate.

Pre-requisite: AGR 171

AGR 174 Sustainable Agriculture Practicum I 3-0-6

This YEAR 1 Field Course occurs during the Spring Session, May to mid-June at the Campus Educational Farm. It involves planning the growing season, preparing the agricultural gardens, and planting, pruning and other early season activities.

Pre-requisite: AGR 130

AGR 175 Sustainable Agriculture Internship I 3-0-6

This course can replace AGR 174 Sustainable Agriculture Practicum I for qualified students who have arranged a practical agricultural experience or placement equivalent to that provided in AGR 174, to occur off-campus.

Pre-requisites: AGR 130 and Permission of the Department

AGR 201 Market Gardening 3-2-1

This course explores the principles and practices associated with a Market Garden enterprise: a small-scale, intensive production of fruits, berries, vegetables, flowers, herbs, perennials, shrubs, seeds, bulbs and tubers, mushrooms and fungi, and more, as cash crops. Market Garden businesses frequently sell directly to consumers via local farmers' markets and community supported agriculture (CSA) and to local restaurants and inns. Market Garden enterprises are commonly characterized by their diversity of crops, grown on a small area of land, typically less than a hectare, and often in greenhouses. Principles and practices include: CSA initiatives, web and social media presence, product diversity, marketing, business plans, financing and capital, accounting and logistics, the regulatory environment, problem-solving and more. This course includes case studies, field trips to Bishop's Campus Educational Farm, the Bishop's Greenhouse, and local Market Garden enterprises.

Offered Alternate years

AGR 202 Culture and Food 3-3-0

This course presents a social perspective on food and culture. It explores the distinctiveness of foods and food preparation within different cultures and their roles in the building of social identity. In a complementary way, the course also explores the universality of human experiences with food. Significant attention is paid to the role of food and societal food practices in the contemporary global era. Topics include food practices, food's role in socialization, identity, health and social change, as well as food marketing and the changing global food system.

Offered Alternate years

AGR 203 Healthy Nutrition 3-3-0

This course surveys the basic principles of human nutrition, and is intended for students with limited science background. The primary aim of the course is to clarify the profound relationship between nutrition and human health, both current health and future health. Topics include health and disease effects due to over-nutrition (focusing on macronutrients), malnutrition (focusing on micronutrients), weight management strategies, nutritional needs through the life cycle, public nutrition and the relationships between nutrition and chronic diseases.

Offered Alternate years

AGR 210 Food Science 3-3-0

This course provides an overview of the science of food preparation and transformation, focusing on the principles of sustainability: waste reduction, nutrient retention, minimization of packaging. Topics include food chemistry, analysis, microbiology, food safety assessment, product development, packaging, and the effects of processing on physico-chemical, rheological, and sensory characteristics.

Offered Alternate years

Pre-requisites: BIO 194 or BIO 196 and CHM 191 and CHM 192

AGR 220 Soil Science 3-3-0

This course provides an introductory survey of soils and their management: properties of soils, soil formation, description, and use. The course focuses on the role of soils in sustainable agriculture, causes and processes of degradation (including erosion, pollution, and nutrient depletion), and the maintenance of healthy soils.

Pre-requisites: BIO 194 or BIO 196 and AGR 130

Co-requisite: AGL 220

AGL 220 Soil Science Field Laboratory 1-0-6

This practical, field-lab course will focus on learning to obtain and use various indicators for assessing environmental impact, soil and water nitrate concentrations, soil bacteria level, soil acidity, water consumption, and more. The field labs will normally occur outdoors at the Campus Educational Farm.

Co-requisite: AGR 220

AGR 230 Ecological Agriculture 3-3-0

Ecological Agriculture is the science of sustainable agriculture. It emphasizes the interrelationships among soils, plants, insects, animals, humans and other components of agroecosystems, and applies ecological concepts and principles to the design and management of these systems. Ecological Agriculture techniques are of particular value in remote regions and in developing countries, where resources are limited and sustainable food security is a significant priority. This course introduces students to the concepts, principles and practices of Ecological Agriculture such as: diversification to maximize biomass production; waste and loss minimization techniques; by-product recycling; encouragement of decomposers and nitrogen fixers; maintenance of soil fertility by humus application, crop rotations and correct application of farmyard manure; processing of farm products on the farm with direct sales to local consumers; integrative, ecological control of pests and weeds, ethical animal husbandry; utilization of wild-life and woodland; farm energy production off-grid; and minimization of capital investments.

Pre-requisite: AGR 130

Co-requisite: AGL 230

AGL 230 Ecological Agriculture Field Laboratory 1-0-3

A Practical Course of small, field-based projects, implementing some of the concepts explored in AGR 230. The field labs will normally occur outdoors at the Campus Educational Farm, during the fall semester, before freeze-up in late November.

Co-requisite: AGR 230

AGR 270 Special Topics/Field Course in Sustainable Agriculture and Food Systems I 3-1-5

A special topics seminar/field course offered by regular and visiting faculty on topics related to their research interests in sustainable agriculture and food systems. Topics are determined by the instructor and may include case-studies, projects and farm and agri-business visits, with the result that content of the course varies from one offering to the next. The course will be offered on an occasional basis.

Pre-requisites: AGR 100 and AGR 104

AGR 274 Sustainable Agriculture Practicum II 9-0-18

This intensive YEAR 2 Field Course occurs during the Summer Session, mid-June to end-July, at the Campus Educational Farm. It involves managing and maintaining the farm and gardens (under the direction of the Farm Technician), harvesting and distributing the early crops, and planning and designing future projects.

Pre-requisite: AGR 174

AGR 275 Sustainable Agriculture Internship II 9-0-18

This course can replace AGR 274 Sustainable Agriculture Practicum I for qualified students who have arranged a practical agricultural experience or placement equivalent to that provided in AGR 274, to occur off-campus.

Pre-requisites: AGR 274 and Permission of the Department

AGR 303 Food Preparation and Preservation 3-1-3

This course presents an overview of food processing and food preservation, and associated food processing unit operations. Topics include: principles of food preservation methods such as temperature and water activity control, effects of preservation methods on food quality; pasteurization and the canning industry; refrigeration and freezing - refrigerants and compressors; drying and evaporation; acidification and fermentation; extrusion technology; chemical preservation; food additives; irradiation; and aseptic processing. As part of this course, students will have the opportunity to obtain their Hygiene and Food Safety - Food Handler Certificate from the Quebec government (a 6-hour, training course at extra cost).

Offered Alternate years

AGR 304 Agritourism 3-3-0

Agritourism includes farm stands or shops, U-pick, farm stays, tours, on-farm classes, fairs, festivals, pumpkin patches, corn mazes, Christmas tree farms, winery weddings, orchard dinners, youth camps, barn dances, hunting or fishing, guest ranches, and more. Food and wine tourism is a rapidly growing sector of tourism, which reflects changing lifestyles and increasing diversification within the tourism industry. This course explores the development of the food and wine tourism industry, the concept and size of agritourism, food and wine business development, marketing and broad trends affecting tourism enterprises within this sector - with case studies and field visits within the Eastern Townships region of Quebec.

Offered Alternate years

AGR 305 Agricultural Entrepreneurship 3–3–0
 Agricultural Entrepreneurship is designed to provide students with an understanding of the key concepts and processes involved in starting and managing new ventures in an agricultural, agritourism or food business. These concepts include: opportunity recognition, business model conceptualization, feasibility analysis, understanding market structure and niche markets, customer values, new product development, raising start-up capital, and development and management of successful new ventures. The course is appropriate for students interested in a variety of new ventures, from for-profit private companies to social enterprises and cooperatives.

Offered Alternate years

Pre-requisites: BMG 214

AGR 311 Agricultural Pests and Integrated Pest Management 3–3–0
 This course presents the principles of sustainable Integrated Pest Management (IPM) and teaches their application vegetable and fruit and berries production. Sustainable IPM principles include no disruption to agro-ecosystems, natural pest control mechanisms, and no synthetic pesticides. The course begins with a survey of pests, plant pathogens, diseases and weeds, continues with non-chemical and biological means of control, monitoring and forecasting methods, and ends with sustainable practices and discussion of the techniques employed for IPM on the Campus Educational Farm.

Offered Alternate years

Pre-requisite: AGR 230

AGR 333 Climate Change, Agriculture, and Food Security 3–3–0

This course examines the role that agriculture plays in climate change as a producer of greenhouse gases, and how this intersects with food security concerns around the globe. Likewise, the course examines how climate change impacts agriculture and food security. Agriculture's role as mitigating agent in climate change, through various peasant practices and modern innovations, and their effect on food security is examined.

Pre-requisites: AGR 100 and AGR 104

AGR 341 Sustainable Food Systems 3–3–0

Agriculture and food industries are a subject of growing interest in terms of their resource requirements, ecological impacts, and sustainability. This course builds on concepts encountered in AGR 100, and other program courses, field courses and practica. It examines methods of modeling and analysis used to study food systems, and give students opportunities to conduct case study analyses. Finally, students will learn how models might be relevant to the development of policy related to local and regional food systems or dietary changes to reduce environmental impact.

Pre-requisites: AGR 100 and AGR 104

AGR 342 Agroecology and Indigenous Food Systems 3–3–0

This course explores the growing field of agroecology research as a transdisciplinary, participatory and action-oriented process, and the wide range of historical and contemporary food systems practices and issues that impact Indigenous communities all around the world, and their connections to the ecosystems that support them. *Pre-requisites: AGR 100 and AGR 104*

AGR 370 Special Topics/Field Course in Sustainable Agriculture and Food Systems II 3–1–5

A third year special topics seminar/field course offered by regular and visiting faculty on topics related to their research interests in sustainable agriculture and food systems. Topics are determined by the instructor and may include case-studies, projects and farm and agri-business visits, with the result that content of the course varies from one offering to the next. The course will be offered on an occasional basis.

Pre-requisites: AGR 100 and AGR 104

AGR 461 Honours Proposal in Sustainable Agriculture and Food Systems 3–0–0

This course provides an introduction to the planning, execution and reporting of Sustainable Agriculture and Food Systems 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 near the end of the semester.

Prerequisite: Permission of Department.

As per department policy, a minimum cumulative grade average of 70% is required to be admitted into AGR 461.

AGR 462 Honours Thesis in Sustainable Agriculture and Food Systems 3–0–0

This course is a continuation of AGR 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 AGR 461 and AGR 462 is necessary to satisfy the requirements for Honours in Sustainable Agriculture and Food Systems.

Prerequisite: AGR 461 and permission of the Department.

As per department policy, a minimum of 75% in AGR 461 is required to be admitted into AGR 462.

AGR 471 Experiential Learning in Sustainable Agriculture and Food Systems I 3–0–0

The aim of this course is to expose students to the application of what they have learned with a practical, field project or placement. Students will be expected to engage in a project or field placement, with off-campus, community projects preferred. A project proposal will be required. Each experiential learning project will include an "external supervisor", and an internal supervisor (a departmental faculty member). The project will be expected to take significant time to complete, at least 100 hours. The student's performance during the practical work will be evaluated by the external supervisor. The student will also be required to produce a final report concerning the project outcomes, and/or a presentation of the findings. The course is normally restricted to students with a cumulative average grade of at least 70%.

Prerequisite: This course may only be registered during the final 30 credits of the student's program and by permission of the Department.

AGR 472 Experiential Learning in Sustainable Agriculture and Food Systems II 3–0–0

This course follows the same course structure and requirements as AGR 471, and builds further depth in this field of study.

Prerequisite: AGR 471 and by Permission of the Department.

Politics and International Studies

Faculty

Don Dombowsky,

B.A. (Concordia), M.A. (New School for Social Research), Ph.D. (Ottawa);
Assistant Professor

Gilbert Gagné,

B.A., B.Soc.Sc., M.A.(Ottawa), D.Phil.(Oxford);
Full Professor

Sarah-Myriam Martin-Brûlé

B.Sc. (Université de Montréal), M.Sc. (Université de Montréal, Ph.D. (McGill University);
Associate Professor

Heather McKeen-Edwards,

B.A. (Manitoba), M.A., Ph.D. (McMaster);
Associate Professor
Chair of the Department

Andrew J. Stritch,

B.A. (Exeter), M.A. (Lancaster), Ph.D. (Queen's);
Full Professor

Jerald Sabin,

B.P., A.P.M., M.A. (Carleton), Ph.D. (Toronto);
Assistant Professor

Trygve Ugland,

Cand.mag., Cand.polit.(Oslo and Queen's Belfast),
Dr.polit.(Oslo);
Full Professor

Program Overview

Knowing the political system increases one's capacity for choice. Therefore, a knowledge of how political systems work in Canada and abroad, as well as the impact of globalization on the emergence of a new international economic and political order, presents a student with not only an understanding of power, authority and decision making in the system but also with greater opportunities and advantages within their society. 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 them in choosing a postgraduate career in government, business, non-profit or the academic fields. Guest lectures are given by visiting politicians, academics, interest group representatives and industry leaders.

The department 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

Credits Required

PROGRAM	Honours ^{^*}	Major [^]	Minor
Political Studies	60	48	24
International Studies	60	48	24
International Political Economy**	60	48	X

[^] Students in any major or honours program must also complete a one-credit lab course – ILT 104.

* **Grade requirements** – To enter or continue in an Honours program, students must normally obtain and sustain a cumulative average of 75%. This minimum cumulative average must be met in order to graduate with the honours degree.

** Offered jointly by the Department of Politics and International Studies and the Department of Economics.

Cross Counting and Program limits

- A maximum of 9 POL credits (3 courses) can be counted towards the multiple Honours/Majors and Minors in the Department of Politics and International Studies.
- The maximum number of Honours/Majors/Minors (POL, INT, IPE) offered through the Department that a student can simultaneously register in is limited to two (2).

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. This program looks at the Canadian political system, as well as other systems around the world, and considers conflict and cooperation between states internationally. It also allows for a critical evaluation of society and its institutions through a study of the history of political theory. The program is divided into six divisions: I) Canadian Politics, II) Political Theory, III) Comparative Politics, IV) International Relations, V) Research Theory and Methods, VI) Honours Thesis, Independent Studies, Practicum and Internships.

Honours in Political Studies (60 credits)

HONPOL

Required Courses

POL 100	Introduction to Political Theory
POL 101	Introduction to Comparative Politics
POL 112	Introduction to Canadian Politics
POL 140	Introduction to International Relations
POL 229	History of Political Philosophy - Modern
POL 262	Methods and Approaches to Political Science
POL 361	Techniques of Empirical Research
ECO 103	Principles of Economics: Macroeconomics
ILT 104	Information Retrieval and Evaluation Skills for the Social Sciences (1 credit lab)

Plus either:

Two POL courses at the 400 level
Or
POL 550 Honours Thesis (6 credits)

Plus Structured Electives in Political Studies:

One additional course from the Political Theory division
One additional course from the Canadian Politics division
Two additional courses from the Comparative Politics division
Two additional courses from the International Relations division

Plus Free Electives in Political Studies

12 additional POL credits (4 POL courses)

Additional note: To enter and to remain in the Honours program, students must normally attain a cumulative average of 75% in program courses. Honours students who do not meet this cumulative average requirement at graduation will automatically revert to the Major 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 (48 credits)

MAJPOL

Required Courses

POL 100	Introduction to Political Theory
POL 101	Introduction to Comparative Politics
POL 112	Introduction to Canadian Politics
POL 140	Introduction to International Relations
ILT 104	Information Retrieval and Evaluation Skills for the Social Sciences (1 credit lab)

Plus one of:

POL 262	Methods and Approaches to Political Science
POL 361	Techniques of Empirical Research

Plus Structured Electives in Political Studies:

One additional course in the Canadian Politics division.
Two additional courses in the Comparative Politics division.
Two additional courses in the International Relations division.

Plus one of:

POL 228	History of Political Philosophy - Ancient, Medieval, Renaissance
POL 229	History of Political Philosophy - Modern

Plus Free Elective in Political Studies

15 additional POL credits (5 POL courses)

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 of 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 (24 credit program)

MINPOL

Required Courses

POL 100	Introduction to Political Theory
POL 101	Introduction to Comparative Politics
POL 112	Introduction to Canadian Politics
POL 140	Introduction to International Relations

Plus Free Electives in Political Studies:

12 additional POL credits

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) HONINT

Honours in International Studies involves some required POL courses, some language courses, a semester abroad, and additional courses within one of two concentrations.

Required Courses (33 credits):

POL 101	Introduction to Comparative Politics
POL 140	Introduction to International Relations
POL 262	Methods and Approaches to Political Science
ILT 104	Information Retrieval and Evaluation Skills for the Social Sciences (1 credit lab)

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 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

Plus Elective Courses (21 credits)

Students choose one of the following two concentrations:

Global Governance Concentration: Seven (7) courses from the Global Governance concentration list

Global Culture Concentration: Seven (7) courses from the Global Culture concentration list

Notes:

- 1) To enter and to remain In the Honours program, students must normally attain a cumulative average of 75%. Honours students who do not meet this average requirement at graduation will automatically revert to the Major program.
- 2) **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 beginner 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.
- 3) Any additional required course can count as one of the electives in either of the two concentrations. In addition, students who have passed both POL 241 and POL 242 need take only two further courses from the third required list.
- 4) POL 441, POL 442, and POL 443 cannot be simultaneously counted as electives in the Global Governance concentration and as fulfilling the 400-level course requirement.
- 5) The addition of a Minor language concentration (8 courses) to the Major in International Studies is strongly recommended.
- 6) 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.

POL 300 – International Studies Internship OR

INT 300 – International Development Assistance Internship may substitute for an exchange.

Major in International Studies

(48 credit program)

MAJINT

A major in International Studies involves some required POL courses, some language courses, and some courses within one of two declared concentrations. Students are also encouraged to spend a semester studying abroad.

Required Courses (30 credits):

POL 101	Introduction to Comparative Politics
POL 140	Introduction to International Relations
POL 262	Methods and Approaches to Political Science
ILT 104	Information Retrieval and Evaluation Skills for the Social Sciences (1 credit lab)

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:

Four language courses (at least two of which must be at the intermediate or advanced level)

Plus Elective Courses (15 credits)

Students choose one of the following two concentrations:

Global Governance Concentration: Five (5) courses from the Global Governance concentration list

Global Culture Concentration: Five (5) courses from the Global Culture concentration list

Notes:

1) Language Courses:

- 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 and the Département d'études françaises et québécoises.
 - Depending on a student's entry-level competence, extra courses at the beginner or intermediate level might be required.
 - Upon entering the program students should (a) consult with the appropriate Modern Languages and Études françaises et québécoises faculty, regarding the language requirements for the program and (b) familiarize themselves with the language competency required for any intended exchange destinations.
- Any additional required course can count as one of the electives in either of the two concentrations. In addition, students who have passed both POL 241 and POL 242 need take only two further courses from the third required list.
 - Students are strongly encouraged to consider taking an International exchange abroad during the course of their degree.
 - The addition of a Minor language concentration (8 courses) to the Major in International Studies is recommended.

Global Governance Concentration

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
HIS 229	Human Rights and Humanitarian Organizations
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 237	Politics of Japan
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 331	Canada-EU Relations
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
POL 443	Peacekeeping

Global Culture Concentration:

DRA 170	Introduction to Film
ENG 102	Approaches to Media Studies
ENG 352	Canadian Literature and Theories of Globalization
FIH 240	Art, Popular and Mass Culture
FIH 314	Colonial and Postcolonial Issues in the Visual Arts
GER 370	Introduction to German Film
GER 371	East German Cinema
GER 383	20th Century German Literature and Culture 1
GER 384	20th Century German Literature and Culture 2
GER 289	History and Memory in Berlin
GER 390	(De)Constructing Identity in Vienna
HIS 105	The 20th Century World
HIS 108	A Global History of Indigenous Peoples
HIS 255	History of Modern Southeast Asia
HIS 256	Latin America 1800 to the Present
HIS 284	History of Modern China
HIS 384	Memory, Truth and Reconciliation
ITA 309	Italian Cinema and Society
ITA 311	Italian Civilization and Culture
JSE 150	Japanese Society and Culture

REL 100	Western Religions
REL 101	Eastern Religions
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 302	Of Latter-day Saints and Modern-day Prophets: New Religious Movements
SOC 190	Introduction to Post-colonialism
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
SPA 318	Spanish Cinema
SPA 319	Topics in Hispanic Culture

*** Note that some of the courses in either concentration may have one or more pre-requisites. Not all courses are offered on a regular basis and some courses have limitations on enrolment.*

Minor in International Studies (24 credit program)

MININT

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.

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.

Honours in International Political Economy (60 credit program) HONIFE

ILT 104	Information Retrieval and Evaluation Skills for the Social Sciences	(1-credit lab)
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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 220	Economic Development I
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 229	History of Political Philosophy - Modern
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:

One POL 400 level course

Plus Free Elective Courses in Politics and International Studies:
9 credits (3 POL courses)

Note that some of these courses may have prerequisites or, alternatively, require permission from the instructor.

To enter and remain in the Honours program, students must normally attain a cumulative average of 75% in program courses. Honours students who do not meet this average requirement at graduation will automatically revert to the Major program.

Major in International Political Economy (48 credit program)

ILT 104 **Information Retrieval and Evaluation Skills**
for the Social Sciences **(1-credit lab)**

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 220 Economics Development I
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 History of Political Philosophy - Modern
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 (3 POL courses)

Note that some of these courses may have pre-requisites or, alternatively, require permission from the instructor.

List of Courses

I. 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.
- 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 213 Canadian Sport System and Policy 3-3-0**
This course examines the key sport policy and governance issues in Canada. Students will develop an understanding of the bodies and organizations that guide the delivery and regulation of sport, and the resulting multilevel policy system that integrates the public, private, and not-for-profit sectors. They will also develop an understanding of policy analysis and sport governance models.
- 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 and Territorial Politics 3-3-0**
A comparative analysis of contemporary trends in provincial and territorial politics, with special emphasis on Quebec. The structures and processes of provincial and territorial policy making will be examined. Topics include regional political development, provincial and territorial political cultures, Indigenous-provincial-territorial intergovernmental relations, and policy development in such areas as health, education, language and resource development.
Prerequisite: POL 112, or permission of instructor
- POL 217 Business and Government in Canada 3-3-0**
This course examines the relation between business and government in Canada. It focuses on the ways that business seeks to influence public policy as well as the role of Canadian governments in supporting business interests, both historically and in contemporary politics. It also examines the ways business advocacy has adapted to changing government structures and looks at the response of business to challenges faced in the public policy process.
Prerequisite: POL 112, or permission of instructor
- POL 246 The Politics of Gender and Sexuality 3-3-0**
A theoretical and empirical study of the relationships among gender, sexuality, and politics in Western democracies, with a special emphasis on Canada. Drawing upon feminist, queer, and intersectional theories, the course explores such issues as reproductive rights, LGBTQ politics, trans* rights movements, sex work, political masculinity, and the representation of women in politics.
- POL 249 Canadian Foreign Policy 3-3-0**
An analysis of the development of Canadian foreign policy and defense 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
- POL 315 Indigenous-Settler Intergovernmental Relations 3-3-0**
This course examines contemporary intergovernmental relations between Indigenous and settler governments in Canada. The course emphasizes political science approaches to Indigenous-settler relations that are grounded in postcolonial, settler colonial, and institutional theory. Topics include treaty federalism; the incorporation of indigenous political and legal orders within Canadian constitutionalism; the political and administrative development of Indigenous government; and federal/provincial/territorial policy relationships with Indigenous peoples. State-based responses to reconciliation are explored. Contemporary developments in Yukon, the Northwest Territories, and Nunavut are highlighted.
Prerequisite: POL 112
- 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 Politics and 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.

II. Political Theory

POL 100 Introduction to Political Theory 3-3-0
A study of the foundational principles of democracy, conservatism, liberalism, feminism, nationalism, socialism, Marxism and anarchism, as developed in political writings from the 18th and 19th centuries.

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 History of Political Philosophy – Ancient, Medieval, Renaissance 3-3-0
A study of the history of political philosophy through an analysis of the classical theories from Thucydides and Plato to Machiavelli and the humanistic age of the Renaissance. Some of the questions explored will include those concerning justice, the state, citizenship, the best constitution, natural law, just war and colonization.
Prerequisite: POL 100 or permission of instructor.

POL 229 History of Political Philosophy - Modern 3-3-0
A study of the history of political philosophy through an analysis of the modern theories from Thomas Hobbes to Karl Marx. Analysis will focus on social contract theory and the foundations of international relations theory, engaging critical concepts such as the state of nature, the natural law and natural right. A special topics section may include themes such as citizenship, human rights, war and security, slavery, genocide, liberty, and the nature of power.
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.

POL 325 / PHI 366 Topics in 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 (especially Freud), 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 Contemporary Political Philosophy 3-3-0
This course will explore themes in contemporary political philosophy, including treatment of concepts such as friend-enemy, persecution-esotericism, biopolitics, bare life, state of exception, speed, empire, clash of civilizations, and the end of history. It draws on the works of Schmitt, Strauss, Foucault, Esposito, Agamben, Virilio, Negri and others.

POL 348 / PHI 348 Topics 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.

POL 420 Modern Political Thought 3-3-0
A study of various approaches and forms expressed in 20th century politics and society: symbolism, myth, skepticism, the psychological, anarchism and structuralism. Works will be from Freud, Oakeshott, Marcuse, Sartori, MacIntyre and Hayek.
Honours students only or permission of instructor.

III. Comparative Politics

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.

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.

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.

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

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.

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.

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.

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.

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.

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 The Politics of Gender and Sexuality 3-3-0

A theoretical and empirical study of the relationships among gender, sexuality, and politics in Western democracies, with a special emphasis on Canada. Drawing upon feminist, queer, and intersectional theories, the course explores such issues as reproductive rights, LGBTQ politics, trans* rights movements, sex work, political masculinity, and the representation of women in politics.

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.

Prerequisite: POL 172 or POL 173, or permission of Instructor

POL 331 Canada-EU Relations 3-3-0

This course examines the political relationship between Canada and the European Union (EU) and its forerunners. Particular attention will be devoted to exploring theories and practices of transatlantic policy learning between Canada and the EU

Prerequisite: POL 231

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 globalization of public policies in Europe will be examined.

Prerequisite: POL 231 or permission of instructor

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.

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.

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

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.

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.

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

IV. 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.

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.

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

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

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

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.

POL 249 Canadian Foreign Policy 3-3-0

An analysis of the development of Canadian foreign policy and defense 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

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

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

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. Both the world trading regime and preferential agreements are considered.

Prerequisite: POL 140 or permission of instructor

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.

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

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

POL 443 Honours Seminar on Peacekeeping 3-3-0

This seminar will examine the political issues related to conflict prevention, humanitarian aid, peacekeeping and peacemaking, demobilization, disarmament and reintegration of combatants, negotiation and mediation, peacebuilding, post-conflict reconciliation and reconstruction, refugees and internally displaced issues. It will present the role of international and regional actors (notably NGOs, IOs, regional organizations, civil society, military, etc.). It will address the strategic, political, economic and social aspects of conflict intervention.

Honours students only or permission of Instructor

V. 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.

Anti-requisite: POL 261

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.

VI: 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 350 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 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 programs. The internship is intended to enable students to contribute to the well-being of 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 enrol in both POL 352 and POL 354 in the same calendar year.

Prerequisite: POL 352 and the permission of the instructor

POL 359 Special Topics in Politics and International Studies 3-3-0

A course offered by regular and visiting faculty on current topics related to Politics and International Studies. Topics covered will be dependent on the research interests and expertise of the faculty member instructing, therefore content of the course varies year by year. The course will be offered on an occasional basis.

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.

Psychology

Faculty

Jonathan Carriere,

B.A. (Winnipeg), M.A., Ph.D. (Waterloo);
Associate Professor
Chair of the Department

Claude Charpentier,

B.A. (Bishop's), Ph.D. (Edinburgh);
Associate Professor

Andrea Drumheller,

B.A. (Rutgers), Ph.D. (Syracuse);
Full Professor

Suzanne Hood,

B.Sc. (Toronto), M.A., Ph.D. (Concordia);
Assistant Professor

Heather Lawford,

B.A. (Trent), M.A. (Wilfrid Laurier), Ph.D. (Concordia);
Associate Professor

Stine Linden-Andersen,

B.A., M.A., Ph.D. (Concordia);
Associate Professor

Catherine Malboeuf-Hurtubise,

B.A. (Concordia); Ph.D. (Université de Montreal);
Associate Professor

Adrianna Mendrek,

B.A. (Concordia), M.A., Ph.D. (UBC);
Full Professor

Leo G. Standing,

B.Sc. (Manchester), M.A., Ph.D. (Queen's);
Full Professor

Dale Stout,

B.Sc., M.Sc. (Calgary), Ph.D. (Edinburgh);
Full Professor

Program Overview

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, a Minor in Mindfulness and Contemplative Studies, a one-year Certificate in Human Psychology, as well as Graduate Certificate in Knowledge Mobilization, 15-credit program including practicum.

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.

Mission Statement

The Psychology Department dedicates itself to understanding and supporting our shared journey towards a well-lived life. Our approach, therefore, takes seriously the literary voice of others cast across time. We explore the pathways into human condition by cultivating openness to scientific methodology, and to clinical, humanistic, as well as neuropsychological perspectives. Encouraging ways of breaking out of the classroom in the hope of making the lives of others better is as much a part of our mission as conducting a study, reading Plato, or deciphering an fMRI report. Our goal is to nurture within our students an intimacy with the human condition that changes them while, at the same time, providing them with the means of making their communities better.

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 196/BIL 196 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.

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 (54 credits)**Prerequisites**

PSY 101	Intro Psy. I
PSY 102	Intro Psy. II
BIO 194	Intro Biology for the Social and Human Sciences

Core courses (8)

PSY 206	Personality
PSY 213	Research Methods
PMA 260	Psychological Statistics
PBI 288	Brain and Behavior
PSY 301	Abnormal OR
PSY 311	Psychopathology
PSY 342	History of Psy.
PMA 353	Psychometrics
PMA 360	Advanced Statistics

Block A – Physiological (take at least 1)

PBI 379	Neuropsychology
PBI 380	Psychopharmacology
PBI 388	Brain Behavior II

Block B – Cognitive & Motivational (take at least 3)

PSY 203	Cognition Motiv. Sports
PBI 217	Motivation Emotion
PSY 302	Perception
PCS 305	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block C – Developmental*(take at least 2)*

PSY 235	Child Development
PSY 266	Adult Aging
PSY 290	Adolescence
PSY 333	Psy. Exceptional Child.
PSY 348	Social Development *

Block D – Social*(take at least 2)*

PSY 214	Community Psy.
PSY 219	Psy. Gender
PSY 245	Social Psy. I
PSY 246	Social Psy. II
PSY 293	Multicultural Psy.
PSY 348	Social Development *
PSY 354	Philosophy of Contemplation

Block E – Free options*(take at least 2 other Psychology courses)***Honours – All programs***(18 additional credits)*

PSY 313	Adv. Research Methods
PSY 443	History Psy. Seminar
PMA 460	Multivariate Stats
PSY 498	Honours Seminar
PSY 499	Honours Thesis (6 creds.)

Honours – Applied program only*(6 additional credits)*

PSY 441	Adv. Applied Seminar
PSY 442	Practicum

* the same course can contribute to only one Block

B.A. Psychology (Applied)*19 courses or 57 credits***Prerequisites**

PSY 101	Intro Psy. I
PSY 102	Intro Psy. II
BIO 194	Intro Biology for the Social and Human Sciences

Core courses (8)

PSY 206	Personality
PSY 213	Research Methods
PMA 260	Psychological Statistics
PBI 288	Brain and Behavior
PSY 301	Abnormal OR
PSY 311	Psychopathology
PSY 342	History of Psy.
PMA 353	Psychometrics
PMA 360	Advanced Statistics

Block A – Physiological (take at least 1)

PBI 379	Neuropsychology
PBI 380	Psychopharmacology
PBI 388	Brain Behavior II

Block B – Cognitive & Motivational (take at least 2)

PSY 203	Cognition Motiv. Sports
PBI 217	Motivation Emotion
PSY 302	Perception
PCS 305	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block C – Developmental (take at least 2)

PSY 235	Child Development
PSY 266	Adult Aging
PSY 290	Adolescence
PSY 333	Psy. Exceptional Child.
PSY 348	Social Development *

Block D – Social (take at least 2)

PSY 214	Community Psy. *
PSY 219	Psy. Gender
PSY 245	Social Psy. I
PSY 246	Social Psy. II
PSY 293	Multicultural Psy.
PSY 348	Social Development *

Block E – Intervention (take at least 2)

PSY 214	Community Psy. *
PSY 330	Ethics
PSY 336	Interviewing
PSY 337	Crisis intervention
PSY 406	Current Topics in Clinical Treatment Models

Block F – Health & Wellbeing*(take at least 2)*

PSY 204	Social Psychology Sports
PSY 222	Group Dynamics
PBI 275	Health Psy. I
PBI 276	Health Psy. II
PSY 277	Physical and Mental Health
PSY 298	Zen and the Brain
PSY 306	Advanced Theories of Person- ality

PBI 327	Psy. of Nutrition
PBI 399	Psychology of Drug Addiction
PSY 477	Personality, Health & Well-Being

* the same course can contribute to only one Block

B.Sc. Psychology (Neuroscience)*18 courses or 54 credits***Prerequisites – Grade 12 and non-science CEGEP students**

PSY 101	Intro Psy. I
PSY 102	Intro Psy. II
BIO 196/ BIL 196	Intro Bio.
CHM 191 / CHL 191	Gen. Chem I
CHM 192/ CHL 192	Gen. Chem II
MAT 198	Calculus I
MAT 199	Calculus II
PHY 193 / PHL 193	Physics I
PHY 194/ PHL 194	Physics II

Core courses – Psychology (8)

PSY 206	Personality
PSY 213	Research Methods
PMA 260	Psychological Statistics
PBI 288	Brain and Behavior
PSY 301	Abnormal OR
PSY 311	Psychopathology
PSY 342	History of Psy.
PMA 353	Psychometrics
PMA 360	Advanced Statistics

Core courses – Neuroscience (5)

BIO 201	Cellular Molecular Bio.
BIO 208 / BIL 208b	Genetics
PBI 379	Neuropsychology
PBI 380	Psychopharmacology
PBI 388	Brain Behavior II

Block A – Cognitive science options (take at least 2)

PSY 302	Perception
PCS 305	Cognition
PSY 370	Learning Memory
PSY 386	Psy. Language

Block B – Natural Science options (take at least 3)

CHM 111 / CHL 111	Organic Chem.
BIO 205 / BIL 205	Diversity of Life
BIO 336 / BIL 336	Animal Physiol. I
BIO 337 / BIL 337	Animal Physiol. II
BCH 313 / BCL 313	Metabolism
BCH 382	Biochem. & Toxicology
BIO 359	Human Genetics
BCH 383	Molecular Biology

Honours and Major in Psychology (54 and 72 credits) HONPSY/MAJPSY

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.

Special Requirements for Honours

To qualify for an Honours program, students must have a cumulative average of at least 80% 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). Eligible students will officially transfer into Honours after the acceptance of their Thesis proposal in the Fall term of their final year.

Honours or Major in Psychology – Applied Concentration (57 and 81 credits) HONPSA/MAJPSA

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.

Honours or Major in Psychology – Neuroscience Concentration (B.Sc.; 54 or 72 credits) HONPNS/MAJPNS

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) MINPSY

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.

Minor in Mindfulness and Contemplative Studies (24 credits) MINPMC

This program provides students with a platform to investigate the psychological, philosophical, and scientific bases of human contemplative experience. It will prepare students who are thinking about clinical work using mindfulness-based interventions; those who are planning research in the area of contemplative neuroscience; as well as those who want to deepen the understanding of themselves and the world they live in. This is an interdisciplinary Minor, involving courses in Psychology and Humanities, to facilitate exploration of human consciousness, nature of self, and life meaning. It requires 8 courses (24 credits), two of which are mandatory (PSY 298 & PSY 420). The remaining six courses can be chosen from a pre-selected list of courses from a wide range of departments listed below:

A. Psychology

PSY 298 – Zen & the Brain (mandatory)
PSY 303 - Positive Psychology
PSY 408 - Psychology of Consciousness
PSY 410 - Psychology of Death & Dying
PSY 420 – Contemplative Practicum (mandatory)

B. Religion

REL101 – Eastern Religions
REL 124 - Hinduism: The Many Faces of the Divine
REL 125 - Buddhism: The Middle Way
REL 148 - Psychology of Religion
REL 236 – Death & Dying in the Ancient World

C. Liberal Arts

LIB 216 - The Divine & Ultimate Concern
LIB 303 - On the Road Again: Pilgrimage in Theory and Practice

D. Philosophy

PHI 201 - Medieval Philosophy
PHI 263 - Hegel
PHI 271 - Socrates and Plato
PHI 272 – Aristotle
PHI 354 – The Philosophy of Contemplation
PHI 374 - Spinoza

E. Fine Arts

FIS 169 - Drawing I
FIS 170 - Sculpture I
FIS 181 - Painting I
FIN 222 - Art Therapy

F. Music

MUS 108 - Choral & Sacred Music
MUS 110 - The Art of Listening I
MUS 111 - The Art of Listening II

Certificate in Human Psychology

(30 credits) CONPSH

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.

List of 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 101 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 102 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 203 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 204 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 206 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 213 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 260

Corequisite: PMA 360

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 217 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 Gender 3-3-0

In this course, gender diversity, gender stereotypes and biases are exposed. The 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 love relationships, sexuality, sexual harassment and assault, gender-based violence, as well as prevalence of specific mental health problems across gender. 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 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 235 Child Development: Infancy to Middle Childhood 3-3-0

The foundations of child development. Topics include basic genetics, development of learning and cognition, socioemotional development, moral development and the classic theories of developmental psychology.

Students who have taken PSY 236 or PSY 237 cannot take this course.

Prerequisite: PSY 101 or PSY 102

PBI 241 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 245 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 246 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 260 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 266 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 275 Health Psychology I 3-3-0**
Introduction to health psychology and the biopsychosocial model of health. Topics include: methods of health research, obtaining care and following health advice, stress, pain, behavioural factors in health, alternative medicine, mental illness, global health issues.
Prerequisite: PSY 101. It is highly recommended that students also take PSY 102
- PBI 276 Health Psychology II 3-3-0**
Selected topics in health psychology: cardiovascular disease, cancer, chronic and terminal illness, preventing injuries, smoking tobacco, using alcohol and other drugs, diet and weight control, exercising, future projects.
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 288 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 290 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 or being admitted to Mindfulness & Contemplative Studies Minor
- PSY 301 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. Various anxiety disorders (e.g., specific phobias), trauma and stress-related disorders (e.g., PTSD), obsessive-compulsive and related disorders (e.g., OCD), and psychotic disorders (e.g., schizophrenia), will be discussed.
Prerequisites: PSY 101, PSY 102 and PSY 206
Students who have taken PSY 341 (Abnormal Psychology) may not take this course for credit.
- PSY 302 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
- PSY 303 Positive Psychology 3-3-0**
Traditionally, when we think of psychology, and especially of clinical psychology, we think of mental illness and psychopathology. However, researchers and clinicians alike have recently been also interested in studying variables that make individuals flourish and thrive. What makes us happy? What roles do hope and optimism play in our overall well-being? Can keeping a gratitude journal have an impact on our outlook on life? All of these variables fall within the realm of positive psychology, which can be described as the study of factors that make people lead fulfilling lives. This class will present theory behind variables that are comprised within positive psychology, while providing a strong clinical and experiential component.
Prerequisite: PSY 101 and PSY 102
- PCS 305 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 306 Advanced Theories of Personality 3-3-0**
An advanced course focused on deepening knowledge of core aspects of personality theories. Topics will focus on the clinical aspects and the social implications stemming from personality theories. In addition the role of statistical methodology (e.g. factor analysis) will be explored in terms of how personality dimensions are established.
Prerequisites: PSY 101 and PSY 102, PSY 206a, PSY 213b
- PSY 311 Psychopathology 3-3-0**
This course is a continuation of PSY301. Topics covered include: mood, personality, dissociative, somatic and eating disorders, as well as sexual dysfunctions and disorders of childhood and adolescence.
Students who have taken PSY 341F (Abnormal Psychology) may not take this course for credit
Prerequisites: PSY 101, PSY 102 and PSY 206
- PSY 313 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 and PMA 360b

PSY 325 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 326 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 327 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 333 Psychology of Exceptional Development 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 336 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 337 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 342 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.

Prerequisite: 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

PMA 353 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 360 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 370 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 379 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 380 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 pharmacokinetics, 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 388 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, and PBI 288

PBI 399 Psychology of Drug Addiction 3-3-0
 Despite 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 406 Current Topics In Clinical Treatment Models 3-3-0
 This course applies sound scientific methodology in evaluating current clinical treatment models for specific mental disorders. Students will critically examine outcome data from a variety of clinical diagnoses as outlined in the Diagnostic Statistical Manual 5 (DSM 5).
Prerequisite: PSY 301 or PSY 311
Pre or Co-requisite: PMA353

PSY 410 Psychology of Death and Dying 3-3-0
 Death is a human affair, not simply a biological one. Adopting an historical, existential-humanistic psychology perspective, the role of death and its impact on our lives will be examined. Texts from the ancient world will be read along with those written by psychologists (Fechner, James, Freud, Jung, Fromm, Erikson, Frankl, May, Rogers, Skinner, Kübler-Ross and Becker). Integrated throughout the course are contemporary texts drawn from diaries and books by authors who have recorded their experiences with death and dying.
Pre or Corequisites: PSY206 and PSY336

PSY 420 Contemplative Practicum 3-0-3
 Mindfulness and contemplation are essential for intellectual, emotional and spiritual growth and insight. They facilitate deepening of self-knowledge and understanding of the world around us. In this course, students will get a chance to examine their selves, their minds and their surroundings from the first-person perspective. Each student, in consultation with the course instructor, will select a specific method of self-inquiry (e.g., meditation training, pilgrimage, artistic process) and devote to it approximately 50-70 hours of practice. The students will be required to keep a detailed diary of their experience describing the process, providing personal insights, comparative analysis, implications and impact of the experience on their lifestyle and philosophy. In addition, students will be encouraged to share their experiences with others during class discussions.
Pre-requisites: Being admitted to Mindfulness & Contemplative Studies Minor or permission of instructor

PSY 441 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, PMA353 and at least 75% in PSY 336

PSY 442 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 443 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 460 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 498 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 (having already completed PSY 313 and PMA 360 with an average of 75 % or above)
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 (having already completed PSY 313 and PMA 360 with an average of 75 % or above)
Co-requisite: PSY 498
PMA 460 is an additional prerequisite for projects involving multivariate research.

Cognate Courses

These courses may count for Psychology credit.

BHR 221	Organizational Behavior	3-3-0
EDU 201	Educational Psychology	3-3-0
PHI 252	Philosophy of Mind	3-3-0
REL 148	Psychology of Religion	3-3-0

Courses offered on an irregular basis.

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 221 cannot 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 outlined.

Prerequisite: PSY 101. It is highly recommended that students also take 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 lifestyles. 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 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

Faculty

Vicki Chartrand,

B.S.Sc. & M.A. (Ottawa) Ph.D. (Macquarie)
Assistant Professor
Chair of the Department

Steven Cole,

B.A. (Hon.) (Trent), M.A. (Queen's), Ph.D. (Alberta); Associate

Mary Ellen Donnan,

B.A. (Saskatchewan), M.A., Ph.D. (Carleton);
Associate Professor

Cheryl Gosselin,

B.A. (Bishop's), M.A. (Concordia),
Ph.D. (Montreal); Professor

Program Overview

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 three 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 the areas of Indigenous-Settler relations, criminology, theory, policy, health and family, and gender and diversity studies.

Careers in Sociology

Recent graduates of the program have embarked on many careers including: 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, management and business; 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/academic-programs/social-sciences/sociology>

Program Summary Table

Sociology Major

(48 credits)

MAJSOC

Required Courses:

21 credits, or 7 classes + ILT 104

SOC 101 Introduction
 SOC 102 Quebec Society
 SOC 110 Research Methods
 SOC 211 Quantitative Methodology
 and Research Design in the Social Sciences
 ILT 104 (lab)
 SOC 221 Modern Soc. I
 SOC 222 Modern Soc. II
 + one SOC 300 level course

Elective Courses:

27 credits or 9 classes
 Choose 9 other sociology courses,
 Or choose specific courses to focus on one
 of the following 3 concentrations:

- A. Gender, Diversity and Equity Studies**
- B. Family, Health and Community**
- C. Criminology, Law and Social Policy**

Sociology Major

Concentration A.

Gender, Diversity and Equity Studies

MAJSGD

Required Courses:

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
 SOC 340 Women, Theory and Ideology
 or
 WOM 305
 Women and Feminism Selected Topics

Elective Courses:

*15 credits or 4 courses from list A
 (following this table)*

Sociology Major

Concentration B.

Family, Health and Community

MAJSFH

Required Courses:

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:

*15 credits or 4 courses from List B
 (following this table)*

Sociology Major

Concentration C.

Criminology, Law and Social Policy

MAJSCL

Required Courses:

All of the courses required for the major plus:

SOC 208 Criminology
 SOC 230 Deviance I
 SOC 295 Social Inequality
 SOC 307 Sociology of Health

Elective Courses:

*15 credits or 4 courses from list C
 (following this table)*

Honours Sociology

(61 credits)

HONSOC

Required Courses:

All the requirements of the Sociology Major plus:

SOC 311 Quantitative Data Analysis
 with Computer Software
 SOC 402 Honours I
 SOC 404 Honours II
 SOC 490 Contemp.Theory

Plus one of:

SOC 315 Political Soc. in the Digital Era
 SOC 320 Knowledge
 SOC 322 Urban Sociology
 SOC 340 Women, Theory and Ideology
 SOC 396 Post Colonial Theory
 SOC 361 Qualitative Studies

There is an optional 6-credit honours thesis

Honours Sociology

Concentration A. Gender, Diversity and Equity Studies

HONSGD

Required Courses:

Meet the requirements for the Sociology Major in this concentration plus:

SOC 311 Quantitative Data Analysis
 with Computer Software
 SOC 402 Honours I
 SOC 404 Honours II
 SOC 490 Contemp.Theory

Plus:

WOM 305 Women and Feminism Selected Topics

One more elective from list A

There is an optional 6-credit honours thesis

Honours Sociology

Concentration B.

Family, Health and Community

HONSFH

Required Courses:

Meet the requirements of the Major Sociology in this concentration plus:

SOC 311 Quantitative Data Analysis
 with Computer Software
 SOC 402 Honours I
 SOC 404 Honours II
 SOC 490 Contemp.Theory

Plus:

SOC 305 Family II

One more elective from list B

There is an optional 6-credit honours thesis

Honours Sociology

Concentration C.

Criminology, Law and Social Policy

HONSCL

61 credits or 20 courses plus ILT 104

Required Courses:

Meet the requirements for the Sociology Major in this concentration, plus:

SOC 311 Quantitative Data Analysis
 with Computer Software
 SOC 402 Honours I
 SOC 404 Honours II
 SOC 490 Contemporary Theory