

Part Thirteen

COURSES

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1. WHERE TO GET MORE INFORMATION

Students may obtain information about the content of a specific course by inquiring at the academic unit - Department, School or Faculty which offers that course.

Information about which courses will be offered - when, where and by which instructor - is provided in the current semester Timetable, available at the Registrar's Office.

Graduate courses taken after admission to a graduate program and available to other students only with Faculty/School permission.

6000 - 6014

Graduate courses which designate thesis and project work.

2850, 3850, 4850, 5850

Numbers which designate Topics courses in various disciplines.

2980-85, 3980-85, 4980-85, 5980-85

Numbers which designate Applied Studies in various disciplines.

2990, 3990, 4990, 5990

Numbers which designate Independent Studies in various disciplines.

1999, 2999, 3999, 4999, 5999

Placeholder course.

2. DEFINITIONS AND SYMBOLS

a. Course

Course refers to a unit of study called a course or course equivalent normally studied for one semester. A course normally carries a weighting of three credit hours. The University offers some units of study which deviate from this norm.

- | | |
|----------------------|-----------------------|
| (1) 1.5 credit hours | (3) 9.0 credit hours |
| (2) 6.0 credit hours | (4) 12.0 credit hours |

b. Semester

Semester refers to a period of study. Students should consult the **Academic Schedule** at the front of this Calendar to learn the specific dates for the start and end of each semester.

c. Course Numbering System

The first digit indicates the level of the course:

0100 - 0999

Elementary courses.

1000 - 1998

Introductory courses usually taken during the first year. The basic course in each subject is usually 1000.

2000 - 2998

Intermediate courses usually taken during the first and second years.

3000 - 3998

Senior courses usually taken during the third year.

4000 - 4998

Senior courses usually taken during the fourth year.

5000 - 5998

d. Series and Topics Courses

Series Course

A course which is offered regularly at the University of Lethbridge, but whose content may vary with different offerings. These courses may be required in a major or program. Each Series has one number (e.g., Anthropology 3100, English 3700) and different offerings in the series are indicated by the title of the course. Students may take more than one offering of a series course for credit if the offerings are distinct (if each offering taken has a different title).

Topics Course

A course which is not offered regularly at the University of Lethbridge and whose content varies with different offerings. Each Topics course is identified by the number 2850, 3850, 4850 or 5850, and different offerings are indicated by the title of the particular section. Students may take more than one offering of a topics course for credit if the offerings are distinct (e.g., if each offering taken has a different title).

A Topics course can not be specified as a required course in any major or program.

e. New Numbers

Where a course number has recently been changed, the number previously used is given in parentheses. Normally a course which has been taken for credit under one number may not be taken for credit again when its number has been changed.

f. Contact Hours

There are two types of contact hours: (1) Hours per week, and (2) Other hours. "Hours per week" are regularly scheduled weekly meeting times, while "Other hours" are meeting times which are scheduled at irregular times over the semester.

Hours per week (regular): a - b - c

- a - number of required lecture hours per week
- b - number of required laboratory hours per week
- c - number of required hours per week in a different setting (e.g., tutorial)

Other hours (irregular): d - e - f

- d - number of required lecture hours per semester
- e - number of required laboratory hours per semester
- f - number of required hours per semester in a different setting (e.g., tutorial, field trip, rehearsal)

All contact hours may be delivered using one or more of the following:

- a regular University classroom
- a University computer lab
- via the World Wide Web
- an off-campus location

g. Prerequisites, Corequisites and Recommended Backgrounds

Some courses require an appropriate background of knowledge as indicated by the prerequisites and corequisites. A prerequisite must be completed before a student is eligible to register in a given course; a corequisite must be taken prior to or in the same semester as a given course.

A student lacking the prerequisite or corequisite for a particular course may apply for a waiver of prerequisite from the Department offering the course.

For some courses, recommended backgrounds are listed instead of or in addition to prerequisites, so that the student may judge his or her own academic preparation. Both prerequisites and recommended backgrounds are expressed in terms of Alberta high school subjects or courses offered by the University of Lethbridge.

Although students may choose to have their program requirements governed by the Calendar in effect at the time of their most recent admission to the University (see **Part 1 - Admission, Section 2i - Calendar Year of an Admission, p.18**), all students are bound by the current Calendar with regard to prerequisites and recommended backgrounds for individual courses.

h. Grading Mode

Grading mode indicates what type of grade will be awarded as defined in **Part 4 - Academic Regulations**. The standard grading mode employed by instructors is a letter grade; the alternative grading mode is Pass/Fail. Credit/Non-Credit, which is at the discretion of the student, is not a grading mode.

i. Cross-Listed Courses

Cross-listed courses appear in this Calendar and will appear on the student's academic records in the dual form, for example, Management 3030/Political Science 3410. Such courses do not apply toward the limit of four University accredited courses which may be taken outside Arts and Science.

3. TIMETABLE

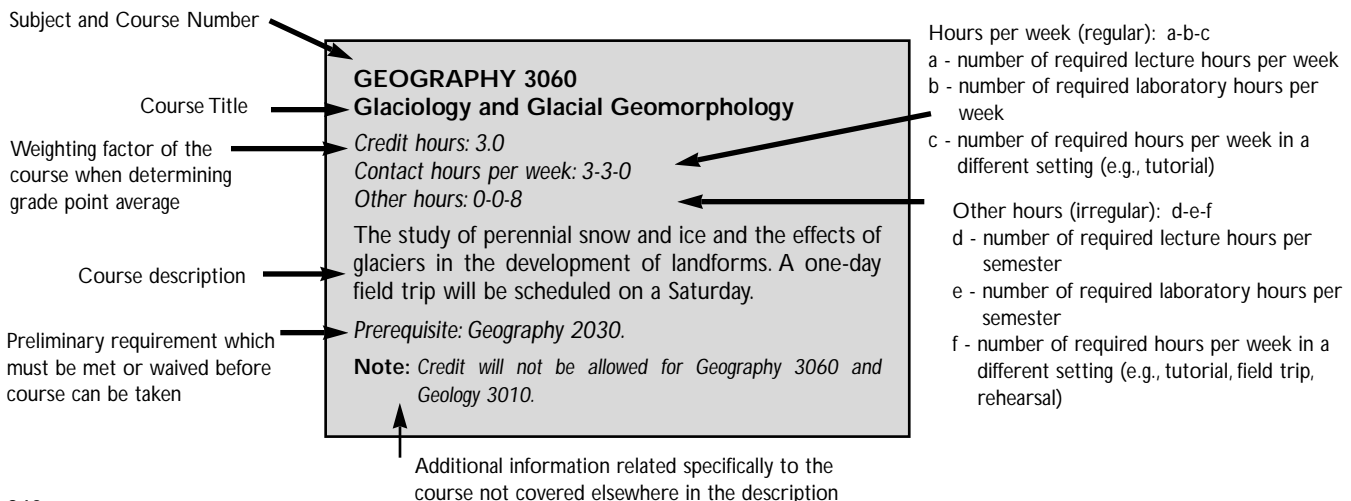
Normally classes start at 8:00 a.m. on a 50-minute schedule Mondays, Wednesdays and Fridays and on a 75-minute schedule Tuesdays and Thursdays. Some classes may be scheduled on a Saturday, if necessary, or in the evening. Normal lecture time is three hours per week, excluding laboratories. Special timetabling is arranged for Summer Session.

4. DISCLAIMER

The appearance of a course in this Calendar does not guarantee that the course will be offered during the academic year for which this Calendar is published.

The University reserves the right to add, modify or withdraw any course or courses without notice.

HOW TO READ A COURSE DESCRIPTION



LINGUISTICS

Note: Linguistics courses are offered by the Department of Modern Languages.

LINGUISTICS 2300**Introduction to Linguistics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Nature and aims of linguistics. Principles, methods and techniques of analyzing and describing language. Relevance of linguistics to other disciplines. The language of instruction is English.

LINGUISTICS 3850**Selected Topics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Seminars on various topics. Offerings dependent upon student interest and available faculty.

Prerequisite: Linguistics 2300.

Note: If contemplating study under this title, contact the Department Chair prior to registration to identify specific offerings in each semester.

LOGIC

Note: Logic courses are offered by the Department of Philosophy.

LOGIC 1000**Introduction to Logic**

Credit hours: 3.0

Contact hours per week: 3-0-1

Principles of good reasoning and good arguing, with emphasis on the kinds of fallacious argument. Identifying the logic or illogic of arguments as they occur in ordinary discourse.

LOGIC 2001**Inductive Logic**

Credit hours: 3.0

Contact hours per week: 3-0-0

Methods for describing and evaluating inductive arguments in ordinary life and science. Topics such as argument by analogy, statistics, probability, decision theory, hypothesis testing, correlation and causation. Philosophical problems about induction.

Prerequisite: A previous course (3.0 credit hours) in Logic or Philosophy, or completion of seven courses (21.0 credit hours) in Arts and Science.

LOGIC 2002**Deductive Logic**

Credit hours: 3.0

Contact hours per week: 3-0-0

An examination of first order logic, i.e., the propositional calculus and quantification theory. Further topics include natural deduction, applications to natural languages, model theory and proof theory.

Prerequisite: A previous course (3.0 credit hours) in Logic or Philosophy, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Logic 1000.

LOGIC 3001**Deviant Logic**

Credit hours: 3.0

Contact hours per week: 3-0-0

Deviant logics such as many valued and minimal logics, epistemic and deontic logics, and free and relevant logics. Their philosophical importance and the question of how to choose among them and for what ends.

Prerequisite: A previous course (3.0 credit hours) in Logic or Philosophy, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Logic 1000 or 2002.

LOGIC 4001**Mathematical Logic**

Credit hours: 3.0

Contact hours per week: 3-0-0

Philosophical issues in the foundations of mathematics and set theory. Topics such as Intuitionism, Logicism, Formalism, reducibility, the set theoretic paradoxes and the axiom of choice. Examination of relations, functions, natural and cardinal numbers, order and alephs.

Prerequisite: A previous course (3.0 credit hours) in Logic or Philosophy, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Logic 2002 or Mathematics 3100.

MANAGEMENT

Note: Management courses beginning with 35__ and 45__ are given priority to Business Enterprises and Self-Governing Systems of Indian, Inuit and Métis Peoples Degree and Certificate students.

MANAGEMENT 2000**Introduction to Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic management concepts are developed through a review of management techniques and processes; modern management thinking, theory and practice; and the social and interpersonal dimensions of management.

Prerequisite: Any ten courses (30.0 credit hours) in Arts and Science.

Management 2060 - Management 3003

MANAGEMENT 2060 (2061) Introduction to Information Technology

Credit hours: 3.0

Contact hours per week: 1.5-3-0

Concepts in microcomputer hardware and software. Students will receive hands-on instruction to acquire a functional working knowledge of the Disk Operating System, spreadsheet technology, wordprocessing, a database management system and network e-mail.

First priority for registration in this course is registration as a pre-Management student.

MANAGEMENT 2070/ECONOMICS 2070 Decision Analysis

Credit hours: 3.0

Contact hours per week: 3-0-0

Application of theories in quantitative analysis applied to management problems; linear programming, forecasting, inventory models, queuing models, transportation models; Markovian decision processes; simulation.

Prerequisite: Management 2000 or Economics 2001.

Corequisite: Management 2060 (2061); Economics 2900 or Statistics 2780; Mathematics 1510 or 1560.

Note: *Students required to take Management 4070 in their program must register in Management 2070.*

MANAGEMENT 2100 Introductory Accounting

Credit hours: 3.0

Contact hours per week: 3-3-0

Introduction to the financial accounting process, including consideration of the basic concepts underlying the preparation of financial statements. Issues relating to the identification, measurement and communication of financial information will be presented.

MANAGEMENT 2400 Management Accounting

Credit hours: 3.0

Contact hours per week: 3-3-0

Control of decentralized operations and the accountant's involvement with decision-making under uncertainty. Topics include: joint and by-product costing, process costing, transfer pricing, cost behaviour patterns and variance analysis.

Prerequisite: Management 2100.

MANAGEMENT 2530 Communication and Information Literacy for Aboriginal Management

Credit hours: 3.0

Contact hours per week: 3-3-0

This course trains students in methods and techniques of acquiring and organizing management information for the purpose of making

management decisions, using available data and information resources and using that information to build arguments in support of decisions that aboriginal managers make.

MANAGEMENT 2531 Research Methods for Aboriginal Managers

Credit hours: 3.0

Contact hours per week: 3-0-0

Students whose careers will be lived in aboriginal communities and organizations need an introduction to research problems encountered in settings where aboriginal people and interests dominate. Aboriginal communities have a unique legal, political, historical and cultural position in Canadian society. Access to sources of information about aboriginal affairs and methods for using this information in making decisions.

Prerequisite: Management 2530 or any Management or Native American Studies course (3.0 credit hours).

MANAGEMENT 2700 Research Methodology

Credit hours: 3.0

Contact hours per week: 3-0-0

An introduction to quantitative and qualitative designs in management research as well as frequently - used applied statistics. Special attention to ethical concerns in research, measurement issues such as reliability and validity, and the critical assessment of research tools such as questionnaires.

Prerequisite: Management 2000, Psychology 3010 (2400) or Statistics 1770.

MANAGEMENT 3002 (3000) Work Experience I

Credit hours: 0.0

Co-operative Education program first work term requires the Co-op student to file a written report to be graded by an assigned Faculty member.

Prerequisite: Admission to a Co-operative Education major.

Grading: Pass/Fail.

MANAGEMENT 3003 (4000) Work Experience II

Credit hours: 0.0

Co-operative Education program second work term requires the Co-op student to file a written report to be graded by an assigned Faculty member.

Prerequisite: Management 3002 (3000).

Grading: Pass/Fail.

MANAGEMENT 3004**Work Experience III**

Credit hours: 0.0

Co-operative Education program third work term requires the Co-op student to file a written report to be graded by an assigned Faculty member.

Prerequisite: Management 3002 (3000), 3003 (4000).

Grading: Pass/Fail.

MANAGEMENT 3005**Work Experience IV**

Credit hours: 0.0

Co-operative Education program fourth work term requires the Co-op student to file a written report to be graded by an assigned Faculty member.

Prerequisite: Management 3002 (3000), 3003 (4000), 3004.

Grading: Pass/Fail.

MANAGEMENT 3010**Management Law**

Credit hours: 3.0

Contact hours per week: 3-0-0

Legal dimensions of business and administrative practice with special emphasis on the law of contracts.

MANAGEMENT 3020**Marketing**

Credit hours: 3.0

Contact hours per week: 3-0-0

The marketing function of organization; decision areas in the external environment, marketing strategies, research, consumer behaviour, product classification and development, distribution, promotion and pricing.

MANAGEMENT 3030/POLITICAL SCIENCE 3410**Organizational Behaviour, Theory and Design**

Credit hours: 3.0

Contact hours per week: 3-0-0

Application of knowledge of organizational theory and behaviour to organizational analysis and design. Planning and implementation of design strategies in response to change in both internal and external circumstances.

Prerequisite: Management 2000 or Political Science 2410.

MANAGEMENT 3040**Finance**

Credit hours: 3.0

Contact hours per week: 3-0-0

Corporate financial decision-making and analysis. Capital budgeting, including net present value and internal rate of return measures for project evaluation. Other topics including cost of capital, long-term financing and short-term financial management.

Prerequisite: Management 2100 and 2400.

MANAGEMENT 3050/POLITICAL SCIENCE 3420**Human Resource Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

Job analysis, recruitment and selection; training; performance appraisal; compensation; discipline; introduction to the legal environment.

Recommended background: Management 3030 or Political Science 3410.

MANAGEMENT 3080 (2080)**Managerial Skill Development**

Credit hours: 3.0

Contact hours per week: 3-0-0

Success in Management requires knowledge of both theoretical principles and the ability to recognize and use these concepts in existing work situations. Conceptual models and practical applications of managerial roles are featured in the course. Specific skills may include, but are not limited to: self-awareness, presentations, conducting meetings, creative problem solving, stress management and group dynamics.

MANAGEMENT 3090**Written Communication and Information Literacy**

Credit hours: 3.0

Contact hours per week: 3-2-0

Writing in different contexts recognizing the importance of voice, audience and purpose; developing superior writing skills for academic and business settings; and providing a basic level of skills in acquiring, organizing, evaluating and using information in a variety of problem-solving and decision-making situations. Students will prepare essays based on their research and will complete assignments such as professional reports in their fields of study.

Prerequisite: A grade of 65% or higher in English 30 or its equivalent as presented for admission OR a passing grade on the AUWCT examination OR successful completion of the Writing for University course.

Recommended background: A TOEFL score of 600 or better (or equivalent).

MANAGEMENT 3100**Intermediate Accounting**

Credit hours: 3.0

Contact hours per week: 3-3-0

Current conventional accounting standards with respect to asset and liability measurement and income determination.

Prerequisite: Management 2100 and 2400.

Corequisite: Management 2060 (2061).

Management 3101 - Management 3310

MANAGEMENT 3101 **Accounting Standards I**

Credit hours: 3.0

Contact hours per week: 3-0-0

Current conventional accounting standards with respect to shareholders' equity, corporate income tax, pensions, leases and changing prices.

Prerequisite: Management 3100.

MANAGEMENT 3120 **Accounting Topics**

Credit hours: 3.0

Contact hours per week: 3-0-0

A review of traditional and current topical interests for the accounting profession. Includes accounting for pensions, investment funds, real estate, resource accounting, leases, franchises, deferred taxes and current value accounting.

Prerequisite: Management 3100.

MANAGEMENT 3130 **Advanced Managerial Accounting I**

Credit hours: 3.0

Contact hours per week: 3-3-0

Control of decentralized operations and the accountant's involvement with decision-making under uncertainty. Topics include: joint and by-product costing, process costing, transfer pricing, cost behaviour patterns, variance analysis and mathematical techniques for the accountant.

Prerequisite: Management 2400.

MANAGEMENT 3131 **Behavioural Accounting**

Credit hours: 3.0

Contact hours per week: 3-3-0

Study of the design and administration of accounting information systems for management planning and control. Models and theories from the behavioural sciences are used to predict how accounting systems affect organizational behaviour. Examines how management accounting adapts to changing environmental, strategic and organizational circumstances using cases to illustrate applications.

Prerequisite: Management 2400 and 3030.

MANAGEMENT 3140 **Tax Policy**

Credit hours: 3.0

Contact hours per week: 3-0-0

Overview of the field of taxation, including the influence of tax systems on business decisions and social objectives. The merits of various means of raising taxes will be considered. With this background, the Canadian tax system will be compared with some normative criteria for tax policy.

MANAGEMENT 3210 **Consumer Behaviour**

Credit hours: 3.0

Contact hours per week: 3-0-0

Consumer behaviour theories, examination of sociological and psychological influences of buyer behaviour, study of the consumer decision process, implications for product development, sales, promotion, distribution and pricing.

Prerequisite: Management 3020.

MANAGEMENT 3220 **Marketing Research**

Credit hours: 3.0

Contact hours per week: 3-0-0

Research process as related to marketing. Defining the problem, research design, sample selection, instrument preparation, data collection and reduction, analysis, presentation and follow-up.

Prerequisite: Management 3020 and Economics 2900 or Statistics 2780.

Note: *Credit is allowed for only one of Management 3220, 4360, Psychology 4010 (3400) or Sociology 3110.*

MANAGEMENT 3230 **Retailing Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

Role of retailing in marketing; structure of retailing in Canada; retail management of location, layout, buying inventory, personnel, promotion, financial control and franchising.

Prerequisite: Management 3020.

MANAGEMENT 3240 **Sales Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

The role of the sales force in the achievement of a firm's marketing objectives; decision-making skills in the development and management of sales programs.

MANAGEMENT 3310 **Private Sector Labour Relations**

Credit hours: 3.0

Contact hours per week: 3-0-0

Right to organize; the acquisition of bargaining rights; loss of bargaining rights; duty to bargain in good faith; duty of fair representation; court enforcement of the collective agreement; strikes and picketing; construction industry labour relations.

Prerequisite: Management 3030 and 3050.

MANAGEMENT 3320
Public Sector Labour Relations

Credit hours: 3.0

Contact hours per week: 3-0-0

Individual public employment relationship and statutory interventions therein; acquisition and loss of bargaining rights; bargaining units; scope of negotiability and the theory of bargaining restrictions; "right" grievances; dispute settlement procedures, including interest arbitration; the right to strike.

Prerequisite: Management 3030, 3050 and 3310.

MANAGEMENT 3330
Individual Employment Relations

Credit hours: 3.0

Contact hours per week: 3-0-0

Regulation of employer-employee relations in the non-unionized sector; formation and content of the employment contract; apprenticeship and infants; employment standards legislation; discipline and discharge redundancy; pensions, occupational health and safety, including vicarious liability.

Prerequisite: Management 3030 and 3050.

MANAGEMENT 3340
Collective Agreement Arbitration

Credit hours: 3.0

Contact hours per week: 3-0-0

Formulating grievance and arbitration procedures; handling grievances; arbitral jurisprudence on procedural irregularities, management rights, seniority, work assignment, compensation, discharge and discipline; labour board and court involvement; public and private innovations; experiential component.

Prerequisite: Management 3030, 3050 and 3310.

MANAGEMENT 3350
Collective Bargaining

Credit hours: 3.0

Contact hours per week: 3-0-0

Theoretical determinants and process of collective bargaining; preparations for bargaining; costing a package with special reference to fringe benefits; negotiation techniques; living through a strike/lockout; experiential component.

Prerequisite: Management 3030, 3050 and 3310.

MANAGEMENT 3370
Strategic Career Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Developments in human resource management and their impact upon career planning in corporations, including human resource inventory systems. Career development systems, specific corporate and human resource plans and financial considerations, including the analysis of benefits and costs.

Prerequisite: Management 2060 (2061), 3030 and 3050.

MANAGEMENT 3380
Technological Change and Organizational Development

Credit hours: 3.0

Contact hours per week: 3-0-0

Developments in technology and their impact upon organizations and employees. Development and implementation of successful strategies to cope with potential employee resistance, internal labour market structure, skills training and technology adaptation.

Prerequisite: Management 2060 (2061), 3030 and 3050.

MANAGEMENT 3390
Canadian Trade Unions

Credit hours: 3.0

Contact hours per week: 3-0-0

Study of developing organization philosophy and role of unions and their contribution to work place democracy in Canada.

MANAGEMENT 3460
Institutions and Practices in International Finance

Credit hours: 3.0

Contact hours per week: 3-0-0

A survey of international institutions and markets including: the International Monetary Fund, the World Bank, foreign exchange markets and Eurocurrency markets. The financial management of international business operations, such as: export financing, foreign exchange transactions, long-term and short-term financing and country risk analysis.

Prerequisite: Management 3040.

MANAGEMENT 3470 (4440)
Corporate Finance

Credit hours: 3.0

Contact hours per week: 3-0-0

Financial analysis and planning; risk analysis including portfolio theory, the capital asset pricing model and arbitrage pricing theory; capital structure theory and practice. Other topics include leasing, corporate restructuring, bankruptcy, reorganization and liquidation, pension plan management.

Prerequisite: Management 3040 and one of Statistics 2780 or Economics 2900.

MANAGEMENT 3480
Personal Finance

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to personal financial management using cases and real life examples. Topics will include personal banking; life, disability and medical insurance; property and liability insurance; pensions and RRSPs; retirement planning; investments; mutual funds; wills and trusts; mortgage and loan concepts; financial planning and financial planners.

Prerequisite: Management 3040.

Management 3500 - Management 3721/Economics 3900

MANAGEMENT 3500

Raising Capital and Money Management in Aboriginal Communities and Organizations

Credit hours: 3.0

Contact hours per week: 3-0-0

For both private and public aboriginal organizations, financial evaluation of development projects and capital purchase; identification of sources of capital in the public and private sectors; making and using budgets; pension programs; financial planning; loan qualification criteria; and analysis of financial statements to ensure financial control.

MANAGEMENT 3520

Public Finance for Aboriginal Governments

Credit hours: 3.0

Contact hours per week: 3-0-0

Analysis of existing and developing fiscal relationships between various levels of Canadian governments and newly emergent aboriginal governments, traditional and potential financing techniques for aboriginal governments approaching self-government, resolution of conflicts in accountability to Canadian governments and to an aboriginal group.

MANAGEMENT 3550

Comparative Development Strategies of Aboriginal Peoples

Credit hours: 3.0

Contact hours per week: 3-0-0

Case studies of management strategies adopted by aboriginal peoples in Canada and elsewhere.

MANAGEMENT 3551

Aboriginal Tourism: An Introduction

Credit hours: 3.0

Contact hours per week: 3-0-0

This course provides an overview of tourism from an aboriginal community perspective. Topics covered include the nature and scope of tourism and the tourism industry, public policy, the role of tourism in economic development of aboriginal communities, tourism marketing and aboriginal tourism and issues.

Prerequisite: Management 2000.

Corequisite: Any Native American Studies course (3.0 credit hours).

MANAGEMENT 3580

Aboriginal Peoples and Natural Resources

Credit hours: 3.0

Contact hours per week: 3-0-0

This course explores the opportunities and constraints that aboriginal peoples encounter in their efforts to use water resources, fisheries, forestry resources, wildlife, land and non-renewable resources, and to gain management power over these resources.

Prerequisite: Management 2000.

Corequisite: Any other Management or Arts and Science course (3.0 credit hours).

MANAGEMENT 3590

Political Values and Practices in Aboriginal Governments

Credit hours: 3.0

Contact hours per week: 3-0-0

This course focuses on contemporary aboriginal governments, their relationship with their constituencies and the political value systems within which they operate. A series of case studies will be used to consider the political and fiscal environmental constraints on aboriginal policy-making and political practices.

MANAGEMENT 3610

Canadian and World Agriculture

Credit hours: 3.0

Contact hours per week: 3-0-0

Canadian agriculture and its relation to world agriculture. Policies in Canada and other trading partners that affect Canada's position in the world market. International price determination, trade barriers or concessions and market stabilization.

Prerequisite: Economics 1001.

MANAGEMENT 3620

Agricultural Production Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Management of the agricultural production establishment with emphasis on structure, ownership, data needs, planning techniques and uses, resource availability and mix and the influence of decisions of the environment.

Prerequisite: Economics 1001.

MANAGEMENT 3630

Agricultural Resource Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Managing agricultural and forest resources to promote production and conservation. Multiple use and alternate use options for land and water are evaluated from an agricultural use perspective.

Prerequisite: Management 2400.

MANAGEMENT 3721/ECONOMICS 3900

Economic and Business Forecasting

Credit hours: 3.0

Contact hours per week: 3-1-0

Construction, estimation and forecasting economic and business time series using a variety of techniques including simple trend extrapolations, multiple regression models, ARIMA models, simultaneous equation models, input-output models and subjective methods, with emphasis on computer applications and proper forecasting methodology.

Prerequisite: Economics 2000, and Statistics 2780 or Economics 2900.

MANAGEMENT 3780/ECONOMICS 3080**Principles of Industrial Organization**

Credit hours: 3.0

Contact hours per week: 3-0-0

Industrial organization paradigms; market structure and strategic behaviour; market structure and technological innovation; vertical integration; conglomerates; welfare economics of imperfect competition.

Prerequisite: Economics 2001.

MANAGEMENT 3803**Business and Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

Development and role of business in society. Social impact of management decision-making. Managing corporate social performance.

MANAGEMENT 3804**Government and Business Interaction**

Credit hours: 3.0

Contact hours per week: 3-0-0

Interaction between the public and private sectors in Canada. Topics may include planning, subsidization, joint venturing, regulation, public enterprises and political activities of business.

Prerequisite: Political Science 2210.

MANAGEMENT 3806**Small Business Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

Theoretical and practical knowledge to set up and manage a small business; characteristics and forms of small business; time management; organize-purchase franchise decisions; forecasting and marketing; obtaining financing; government and legal controls; tax considerations; accounting and financial controls; personnel administration; location decisions.

MANAGEMENT 3807**Municipal Governance and Planning**

Credit hours: 3.0

Contact hours per week: 3-0-0

Municipal policy-making and administrative decision-making, personnel, financial functions, legal powers, land use management, public participation and provincial-municipal relations.

Prerequisite: Political Science 2210.

Note: *Credit for Management 3807 and Political Science 3210 is not allowed.*

MANAGEMENT 3810**Administrative Law**

Credit hours: 3.0

Contact hours per week: 3-0-0

Powers and limitations of regulatory bodies in their relation to business corporations and para-public agencies.

Prerequisite: Management 3010, and Political Science 2210 or 2410.

MANAGEMENT 3812**Japanese Business Management**

Credit hours: 3.0

Contact hours per week: 3-0-0

Emergence of business practices; organization of the business firm; professionalism among Japanese businessmen; Japanese business in international economic and social setting.

MANAGEMENT 3820**Object-Oriented Programming Techniques**

Credit hours: 3.0

Contact hours per week: 3-0-0

This course describes programming techniques for Management Information System development using object-oriented programming languages. Students will develop applications in microcomputer environments based on the concepts of "objects".

Prerequisite: Management 2060 (2061) and Computer Science 1620 (1600).

MANAGEMENT 3830**Contemporary Database Applications**

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to database management systems. Emphasis on design and construction of database systems using a fourth generation programming language.

Prerequisite: Management 2060 (2061).

MANAGEMENT 3860**Law and Institutions of International Trade**

Credit hours: 3.0

Contact hours per week: 3-0-0

The General Agreement on Tariffs and Trade, negotiations on lowering tariffs and non-tariff barriers; customs union, common markets, free trade agreements and dispute resolution mechanisms; trade contingency law and case studies of adjudications of countervailing and anti-dumping duties; coordination of product standards and systems for tariff classification; influences of bilateral tax treaties on trade and investment; international commodity agreements (cartels), reciprocity and the principle of national treatment of foreign firms, restrictions on foreign investment.

Prerequisite: Management 3010.

Management 3862 - Management 4112

MANAGEMENT 3862

Advanced Information Technology

Credit hours: 3.0

Contact hours per week: 1.5-3.0

Topics covered in this course will include advanced spreadsheet usage, graphic presentation, desktop publishing, end-user networking (Novell Network), Internet tools, multimedia and other information technology.

Prerequisite: Management 2060 (2061).

MANAGEMENT 3901

Professional Consulting

Credit hours: 3.0

Contact hours per week: 3.0-0

Students will gain an understanding of the field of management consulting through an examination of the management consulting process, issue and problem diagnosis, management consulting approaches and styles, client-consultant relationships, management of change and professional codes of conduct and ethics. Client-student interaction will focus on specific and actual consulting process assignments with external clients.

Prerequisite: Management 3030.

Corequisite: Management 3020 and 3050.

MANAGEMENT 3920

Project Management

Credit hours: 3.0

Contact hours per week: 3.0-0

Covers the entire project lifecycle from the conceptualization to termination phases with an emphasis on the project planning and controlling functions. Various topics such as international project management, TQM and ethical issues are also covered.

Prerequisite: Management 2000.

MANAGEMENT 3980-3985, 4980-4985

Applied Studies/Field Experience

Credit hours: 3.0

Contact hours per week: 3.0-0

A maximum of five course credits (15.0 credit hours) may be awarded under Management 3980-85 and Management 4980-85, and then only in conjunction with Applied Studies.

Prerequisite: Successful completion of the 10-course (30.0 credit hours) Management admission requirement.

MANAGEMENT 4080

Comparative Perspectives in Strategic Management

Credit hours: 3.0

Contact hours per week: 3.0-0

Theoretical and practical approaches to strategic management in various industries, public and private sectors, geographic regions, economic systems and cultural contexts.

Corequisite: Management 3020, 3030 and 3040.

MANAGEMENT 4090

Management Policy and Strategy

Credit hours: 3.0

Contact hours per week: 3.0-0

Integrative requirements and consequences of policy and strategy alternatives. Simulated management decision-making through case studies in both the private and public sector.

Prerequisite: Completion of 30 courses (90.0 credit hours) including Management 2060 (2061), 3010, 3020, 3030, 3040 and 3050.

MANAGEMENT 4100

Contemporary Accounting Research

Credit hours: 3.0

Contact hours per week: 3.0-0

Critical and comprehensive review of contemporary applied and theoretical research in accounting and auditing. Articles in contemporary journals are assessed from both conceptual and policy perspectives. Considers the role of accounting theory in standard setting by professional accounting bodies and in accounting applications.

Prerequisite: Management 3120.

MANAGEMENT 4110

Accounting Standards II

Credit hours: 3.0

Contact hours per week: 3.0-0

Specialized areas of accounting with particular emphasis on consolidations, mergers, acquisitions, pooling of interest, complex partnership arrangements and foreign currency translations.

Prerequisite: Management 3101.

MANAGEMENT 4111

History of Accounting Thought

Credit hours: 3.0

Contact hours per week: 3.0-0

Traces the evolution of accounting thought from Mesopotamia, Rome, Greece, the Middle Ages, Renaissance, Mercantilism and pre-industrial Europe and North America. The emergence of modern accounting concepts in an industrial and regulated society largely characterized by a separation of owner-investors from manager-professionals and active government oversight of economic and financial markets. Major controversies affecting the development of accounting concepts, with a critical focus on the positivist analysis of accounting systems.

Prerequisite: Management 3100.

MANAGEMENT 4112

International Accounting

Credit hours: 3.0

Contact hours per week: 3.0-0

Reviews foreign accounting systems and theories and compares alternative solutions to problems accountants in different countries and business cultures adopt in order to present accurate information for decision-making and contract implementation.

Studies alternative international means of structuring the accounting profession and setting accounting standards and the influence of accounting on international business.

Prerequisite: Management 3100.

MANAGEMENT 4120

Audit I

Credit hours: 3.0

Contact hours per week: 3-0-0

Organizational intelligence and the audit function. The nature of belief, evidence, ethics, legal reporting environment, major frauds, statistical sampling for the auditor.

Prerequisite: Management 3100.

MANAGEMENT 4121

Audit II - Statistics and Risk

Credit hours: 3.0

Contact hours per week: 3-0-0

Application of decision theory in the audit. Risk and uncertainty and the auditor's treatment of these issues. Classical and Bayesian statistics as used to assist the auditor. Internal control and its evaluation by substantive and compliance tests to evaluate audit effectiveness and efficiency.

Prerequisite: Management 3120 and 4120.

MANAGEMENT 4122

Audit III - Computers

Credit hours: 3.0

Contact hours per week: 3-3-0

Auditing management information systems. Qualitative and quantitative techniques for evaluating an internal control system. Statistical sampling for compliance and substantive testing. Regression analysis and analytical review. Expert systems, micro, on-line and database software systems for the auditor.

Prerequisite: Management 4121.

MANAGEMENT 4130

Advanced Managerial Accounting II

Credit hours: 3.0

Contact hours per week: 3-0-0

Control systems and their behavioural and organizational implications and decision analysis. Extensive use of cases will be made.

Prerequisite: Management 3130.

MANAGEMENT 4140

Personal Income Tax

Credit hours: 3.0

Contact hours per week: 3-0-0

Interpretational problems of the Income Tax Act and provisions of the Act concerned with the computation of taxable income and tax payable by an individual. Sufficient familiarity with the provisions of

the Act and their interpretation will enable the student to deal competently with most individual tax situations.

Prerequisite: Must have fourth-year standing (a minimum of 90.0 credit hours).

MANAGEMENT 4150

Corporate Income Tax

Credit hours: 3.0

Contact hours per week: 3-0-0

An overview of the Income Tax Act of Canada as it applies to corporations, their owners, partnerships and trusts. Emphasis on the Canadian corporation and partnership and resulting calculations necessary under the taxing statutes.

Prerequisite: Management 3100 and 4140.

MANAGEMENT 4210

Advertising and Promotions

Credit hours: 3.0

Contact hours per week: 3-0-0

Advertising and public relations theory, media structures, regulatory supervision and social responsibility.

Prerequisite: Management 3210.

MANAGEMENT 4220

International Marketing

Credit hours: 3.0

Contact hours per week: 3-0-0

International marketing and intelligence: economic, cultural, political, product policy, foreign market entry methods, international promotion and pricing.

Prerequisite: Management 3020.

MANAGEMENT 4230

Marketing Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Strategy-oriented, marketing environment, marketing information and analysis of markets and buying behaviour; program development.

Prerequisite: Management 3210 and 3220.

MANAGEMENT 4310

Advanced Organizational Behaviour and Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Behaviour in organizations, including alternative models of individual behaviour; perceptual processes; satisfaction; equity and quality of working life; a group performance; organizational effectiveness; consulting for organizational change.

Prerequisite: Management 3030 and 3050 and fourth-year standing (90.0 credit hours).

Management 4350 - Management 4551

MANAGEMENT 4350

Advanced Human Resource Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Topics covered will include human resource planning and strategic concerns, managing diversity, staffing issues (e.g., recruiting, selecting, promoting, downsizing), legal issues and concerns, training and development, workplace stress and burnout, job evaluation and compensation issues, and cross-cultural human resource management.

Prerequisite: Management 3050.

MANAGEMENT 4360

Organizational Research

Credit hours: 3.0

Contact hours per week: 3-1-0

Choice of method and analysis in organizational behaviour. Topics for discussion include the scientific method, measurement considerations, possible empirical research strategies and the appropriate use of parametric and non-parametric statistical techniques.

Prerequisite: Management 3030 and 3050.

Note: *Credit is allowed for only one of Management 3220, 4360, Psychology 4010 (3400) or Sociology 3110.*

MANAGEMENT 4411 (3410)

Investments

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic risk and return analysis, investment alternatives, financial markets and sources of investment information. Technical and fundamental analysis, efficient markets, diversification and theoretical models. Performance measurement, fixed income securities, bond portfolios and funds management.

Prerequisite: Management 3470 (4440).

MANAGEMENT 4421 (3420)

Financial Institutions and Markets

Credit hours: 3.0

Contact hours per week: 3-0-0

The Canadian financial system governing capital flows between borrowers and lenders; financial institutions and other participants in the financial system; the financial markets.

Prerequisite: Management 3470 (4440).

MANAGEMENT 4430

Financial Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Financial management and decision-making in the corporate environment. Application of current theories and techniques. Extensive use of case discussions.

Prerequisite: Management 3470 (4440).

MANAGEMENT 4451 (3450)

Derivative Securities Market

Credit hours: 3.0

Contact hours per week: 3-0-0

Derivative securities and their uses. Includes discussion of options, futures, swaps and their uses in risk management.

Prerequisite: Management 3470 (4440).

MANAGEMENT 4506

Aboriginal Small Business and Entrepreneurship in Canada

Credit hours: 3.0

Contact hours per week: 3-0-0

Aboriginal communities have an increasing interest in small business and entrepreneurship. This course provides the theoretical and practical knowledge necessary to set and manage a small aboriginally-owned and operated business, both inside and outside of aboriginal communities. Various technical and policy issues will be covered, and special attention will be paid to tribally-owned aboriginal small businesses.

Prerequisite: Management 2000 and 3500.

Recommended background: Management 2100.

MANAGEMENT 4510

Design of Modern Aboriginal Organizations

Credit hours: 3.0

Contact hours per week: 3-0-0

A review of the goals which aboriginal organizations seek to achieve and the organizational structures which help them fulfill their purposes. Extensive use of case discussions.

Prerequisite: Management 3030.

Recommended background: Native American Studies 3400.

MANAGEMENT 4550

Development Planning in Aboriginal Communities

Credit hours: 3.0

Contact hours per week: 3-0-0

A review of planning approaches best suited to achieve the development goals of aboriginal peoples. The role of planning in community, regional and organizational contexts will be discussed.

Recommended background: Native American Studies 2400 and Management 3550.

MANAGEMENT 4551

Aboriginal Tourism Issues and Strategies for Planning and Development

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues and strategies in program planning and developing aboriginal community tourism with special emphasis on cultural, social and environmental issues in aboriginal tourism.

Prerequisite: Management 3551.

MANAGEMENT 4610
Influence of Government Policy on Agriculture

Credit hours: 3.0
Contact hours per week: 3-0-0

Goals for the agricultural sector and policy programs and instruments used to align the sector with national goals. Comparative analysis of the actions of governments in Canada and around the world to influence the agricultural sector.

Prerequisite: Management 3610 or Economics 4300.

MANAGEMENT 4630
Cases in Agricultural Management

Credit hours: 3.0
Contact hours per week: 3-0-0

Detailed analysis of one or two current issues in agriculture.

Prerequisite: Management 4610.

MANAGEMENT 4780/ECONOMICS 4080
Industrial Organization: Theory and Policy

Credit hours: 3.0
Contact hours per week: 3-0-0

Theories of oligopoly pricing; theories of the firm; the economics of mergers and takeovers; Canadian competition policy; and the regulation of industry.

Prerequisite: Economics 3001 and 3080.

Recommended background: Economics 2900.

MANAGEMENT 4821
Decision Support and Expert Systems in Business

Credit hours: 3.0
Contact hours per week: 3-0-0

Designing, constructing and implementing Decision Support Systems and Expert Systems in business applications; use of standard decision support tools and an expert system shell.

Prerequisite: Management 3820.

MANAGEMENT 4840
Systems Analysis

Credit hours: 3.0
Contact hours per week: 3-0-0

Information Systems Analysis using structured tools and techniques.

Prerequisite: Management 2060 (2061).

Note: Students should enrol in Management 4841 (Systems Design) in the succeeding term.

MANAGEMENT 4841
Systems Design

Credit hours: 3.0
Contact hours per week: 3-0-0

Information Systems Design using structured tools and techniques.

Prerequisite: Management 3820, 3830 and 4840.

Note: Students should enrol in Management 4840 (Systems Analysis) in the preceding term.

MANAGEMENT 4842
Management of the Information Systems Function

Credit hours: 3.0
Contact hours per week: 3-0-0

The course considers the issues, strategies and tactics for managing the delivery of IS and related services to the organization. Two major themes will run throughout the course: the impact of changing technologies on the role of IS and the relationship between IS management, user management and general management.

Prerequisite: Management 4840.

MANAGEMENT 4850
Selected Topics in Management

Credit hours: 3.0
Contact hours per week: 3-0-0

Selected topics to be offered upon interest and demand or instructor's expertise.

MANAGEMENT 4860
Comparative Management Practices

Credit hours: 3.0
Contact hours per week: 3-0-0

Global environment of management, diversity and unity in management practice; cultural assumptions, perception, attitude and business behaviour; culture and organizational change, innovation and diffusion, acceptance of and resistance to change; communication, education leadership and decision-making processes; responsibility to family, corporation and society.

Prerequisite: Management 3030 and 3050.

MANAGEMENT 4862
Networking Technologies

Credit hours: 3.0
Contact hours per week: 3-0-0

Emphasis will be placed upon technological and managerial perspectives and current trends in computer networking. Topics include: transmission control protocol/internet protocol (TCP/IP) networks, local area networks (LANs) and asynchronous communication. Methods of integrating different types of networks will also be covered.

Prerequisite: Management 3820 and 3862.

MANAGEMENT 4980-85
Applied Studies/Field Experience

Credit hours: 3.0
Contact hours per week: 3-0-0

A maximum of five course credits (15.0 credit hours) may be awarded under Management 3980-85 and 4980-85, and then only in conjunction with Applied Studies.

Prerequisite: 1. Successful completion of the 10-course (30.0 credit hours) Management admission requirement.
 2. Four other Management courses (12.0 credit hours) at the 3000/4000 level.

MATHEMATICS

MATHEMATICS 1410 (1450) **Elementary Linear Algebra**

Credit hours: 3.0

Contact hours per week: 3-0-1

Linear systems and matrices. Matrix algebra. Determinants. Vector geometry. Complex numbers. Markov chains and other applications.

Prerequisite: Mathematics 30.

MATHEMATICS 1510 **Techniques of Calculus**

Credit hours: 3.0

Contact hours per week: 3-0-1

Differentiation of elementary functions, the chain and product rules, extrema problems, integration. Applications from management, humanities and the social sciences.

Prerequisite: Mathematics 30.

Note: *Credit for Mathematics 1510 and 1560 is not allowed.*

Mathematics 1510 may not be counted towards the requirements for a major in Mathematics and is not suitable for students requiring more than one semester of Calculus.

MATHEMATICS 1560 **Calculus I**

Credit hours: 3.0

Contact hours per week: 3-0-1

Functions, limits, continuity, differentiation of elementary functions, trigonometric functions and their derivatives, applications of derivatives, curve sketching and optimization, anti-derivatives, change of variable, definite integrals, the fundamental theorem of calculus.

Prerequisite: Mathematics 30.

Recommended background: Mathematics 31 and a blended grade of at least 75 percent in Mathematics 30.

MATHEMATICS 2000 (2450) **Mathematical Concepts**

Credit hours: 3.0

Contact hours per week: 3-0-1

Logic, proofs. Set theory. Relations and functions. Finite and countable sets. Induction. Number theory. Elementary group theory.

Prerequisite: Mathematics 1410 (1450).

Recommended background: Mathematics 1560.

MATHEMATICS 2560 **Calculus II**

Credit hours: 3.0

Contact hours per week: 3-0-1

Applications of integration; logarithmic, exponential and hyperbolic functions; inverse functions; inverse trigonometric and hyperbolic

functions; indeterminate forms; improper integrals; techniques of integration.

Prerequisite: Mathematics 1560.

MATHEMATICS 2570 **Calculus III**

Credit hours: 3.0

Contact hours per week: 3-0-0

Sequences and series, convergence tests, Taylor's series, vector-valued functions of a real variable, polar coordinates, applications to analytic geometry.

Prerequisite: Mathematics 1410 (1450) and 2560.

MATHEMATICS 2580 **Calculus IV**

Credit hours: 3.0

Contact hours per week: 3-0-0

Calculus of functions of several variables: partial differentiation, chain rule, applications, multiple integration, change of variables, theorems from vector analysis, including Stokes' Theorem.

Prerequisite: Mathematics 2570.

MATHEMATICS 2865 **Combinatorial Mathematics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Graphs, trees and digraphs. Network flows. Scheduling. Enumeration, including the principle of Inclusion-Exclusion and generating functions.

Prerequisite: Mathematics 1410 (1450).

MATHEMATICS 3100 **Introduction to Mathematical Logic**

Credit hours: 3.0

Contact hours per week: 3-0-0

First Order Logic. Validity, provability, completeness, consistency, independence, categoricity, decidability, Godel's Theorem.

Prerequisite: Mathematics 2000 (2450).

MATHEMATICS 3200 **Geometry**

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to classical geometry from the axiomatic point of view. Lines and affine planes. Separation, order, similarity, congruence. Isometries and their classification. Groups of symmetries. Projective, hyperbolic and inversive geometries.

Prerequisite: Mathematics 2000 (2450).

MATHEMATICS 3310

Topology

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to general topology. Continuity, connectedness, compactness, separation.

Prerequisite: Mathematics 2000 (2450) and 2560.

Recommended background: Mathematics 3500.

MATHEMATICS 3400

Group and Ring Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Groups, abelian groups, subgroups, quotient groups. Homomorphism. Isomorphism theorems. Lagrange's theorem. Permutation groups. Sylow theorems. Commutative rings, subrings, ideals. Quotient rings and ideals. Polynomial rings.

Prerequisite: Mathematics 2000 (2450).

MATHEMATICS 3410 (3450)

Linear Algebra

Credit hours: 3.0

Contact hours per week: 3-0-0

Vector spaces over the real and complex numbers. Basis and dimension. Linear transformations. Change of basis. Gram-Schmidt orthogonalization. Eigenvectors and diagonalization. Canonical forms. Cayley-Hamilton Theorem.

Prerequisite: Mathematics 1410 (1450).

Corequisite: Mathematics 2000 (2450).

MATHEMATICS 3461

Elementary Number Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Integral domains, modular arithmetic, Gaussian integers, divisibility, primes, congruences, Chinese remainder theorem, quadratic reciprocity, sums of squares, diophantine equations.

Prerequisite: Mathematics 2000 (2450).

MATHEMATICS 3500

Analysis

Credit hours: 3.0

Contact hours per week: 3-0-0

Detailed examination of the ideas and results of the first courses in integral and differential calculus. Countable and uncountable sets, properties of the space of real numbers, sequences, series and convergence. Continuity, differentiability, integrability.

Prerequisite: Mathematics 2000 (2450) and 2560.

MATHEMATICS 3600 (2800)

Differential Equations I

Credit hours: 3.0

Contact hours per week: 3-0-0

First order ordinary differential equations. Second and higher order ordinary differential equations. Linear systems of ordinary differential equations. Qualitative theory of ordinary differential equations. Applications. Series solutions. Singular point expansions. Elementary linear difference equations. Emphasizes techniques and methods.

Corequisite: Mathematics 2570.

MATHEMATICS 3850

Topics in Mathematics

Credit hours: 3.0

Contact hours per week: 3-0-0

Note: Consult with the Department for currently offered topics and prerequisites.

MATHEMATICS 3860

Combinatorics

Credit hours: 3.0

Contact hours per week: 3-0-0

Burnside's theorem, Polya's theorem. Finite fields and combinatorial design. Coding theory. Ramsey Theory.

Prerequisite: Mathematics 2865.

MATHEMATICS 3870

Optimization

Credit hours: 3.0

Contact hours per week: 3-0-0

Networks. Linear programming, including duality and the simplex method. Integer linear programming methods. Assignment problem, knapsack problem, critical path scheduling. Introduction to non-linear programming and search methods.

Prerequisite: Mathematics 1410 (1450), 2000 (2450) and 2865.

MATHEMATICS 4400

Field Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Polynomial rings. Fields and field extensions, construction problems. Finite fields. Galois Theory. Fundamental Theorem of Algebra.

Prerequisite: Mathematics 3400.

MATHEMATICS 4560

Complex Analysis

Credit hours: 3.0

Contact hours per week: 3-0-0

Complex number system and complex plane. Analytic functions. Complex integration. Power series. Calculus of residues.

Prerequisite: Mathematics 2570.

Recommended background: Mathematics 3500.

Mathematics 4600 - Music 2211

MATHEMATICS 4600 (4800)

Differential Equations II

Credit hours: 3.0

Contact hours per week: 3-0-0

Theoretical foundations. Integral transforms. Discontinuous coefficients. Separation of variables. Fourier series. Linear partial differential equations of order 2. Boundary value problems and Sturm-Liouville Theory. Applications. Distribution Theory.

Prerequisite: Mathematics 2570 and 3600 (2800).

Recommended background: Mathematics 3500.

MATHEMATICS 4850

Topics in Mathematics

Credit hours: 3.0

Contact hours per week: 3-0-0

Note: Consult with the Department for currently offered topics and prerequisites.

MICROBIOLOGY

Please refer to Biology in this Part.

MODERN LANGUAGES

MODERN LANGUAGES 2850

Selected Topics in Modern Languages

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected topics to be offered depending on student interest and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

Note: If contemplating study under this title, contact the Department chair prior to registration to identify specific offerings in each semester.

MODERN LANGUAGES 3850

Selected Topics in Modern Languages

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected topics to be offered depending on student interest and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

Note: If contemplating study under this title, contact the Department chair prior to registration to identify specific offerings in each semester.

MUSIC

MUSIC 1000

Introduction to Music

Credit hours: 3.0

Contact hours per week: 3-0-0

Lectures and prescribed listening (both recording and concerts) to encourage aural familiarity with compositions representative of significant musical styles. Previous formal education in music not required.

Note: Credit is not allowed for Music 1000 and 1021. Not counted in the basic 15-course Arts and Science major or the B.Mus. degree.

MUSIC 1021

Music Foundations

Credit hours: 3.0

Contact hours per week: 3-0-0

Develops an understanding of style and content issues related to writing about music, encourages aural familiarity with compositions representative of significant musical styles, and explores basic computer skills related to music notation.

Prerequisite: A knowledge of theory rudiments.

Note: Credit is not allowed for Music 1000 and 1021.

MUSIC 2111

Music Theory I

Credit hours: 3.0

Contact hours per week: 3-3-0

Introduction to diatonic tertian melody and harmony using a compositional approach; development of parallel aural, sight-singing and keyboard skills.

Prerequisite: A knowledge of theory rudiments.

Note: An assessment exam will be administered at the first class meeting.

MUSIC 2148

Music Studio I - (Instrument)

Credit hours: 3.0

Contact hours per week: 1-4-0

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: Audition. Contact the Division of Music for further information.

MUSIC 2211

Music Theory II

Credit hours: 3.0

Contact hours per week: 3-3-0

Further study of diatonic tertian melody and harmony using a compositional approach; introduction to counterpoint; development of parallel aural, sight-singing and keyboard skills.

Prerequisite: Music 2111.

MUSIC 2248**Music Studio II - (Instrument)***Credit hours: 3.0**Contact hours per week: 1-4-0*

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio I (see note below).

Note: Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.

MUSIC 2321**History and Literature of Music in Western Civilization I: Baroque and Classic Periods***Credit hours: 3.0**Contact hours per week: 3-0-0*

Seventeenth and 18th Century music history with emphasis on musical styles, forms and compositional features as found in the works of representative Baroque and Classic composers; aural recognition of selected compositions.

Prerequisite: Music 1000, Music 1021, or a previous course (3.0 credit hours) in music history.

MUSIC 2421**History and Literature of Music in Western Civilization II: The Romantic Period***Credit hours: 3.0**Contact hours per week: 3-0-0*

Nineteenth Century music history with emphasis on musical styles, forms and compositional features as found in the works of representative Romantic composers; aural recognition of selected compositions.

Prerequisite: Music 1000, Music 1021, or a previous course (3.0 credit hours) in music history.

MUSIC 2500**Music and Computers***Credit hours: 3.0**Contact hours per week: 3-0-0*

Designed to familiarize the student with all aspects of computers as they relate to music. Topics to include: digital-music techniques, including basic acoustics, digital and analog conversions, survey of dedicated computer-music systems, brand-name microcomputers and MIDI applications, review of the available software for CAI, composition and notation and sequencing or recording techniques, including film music.

Prerequisite: A knowledge of music theory rudiments.

Recommended background: Music 1011.

MUSIC 3000**Seminar in Music (Series)***Credit hours: 3.0**Contact hours per week: 3-0-0*

Areas of special interest not covered by regular Music courses may be offered under this designation, depending on student interest and availability of faculty time and expertise.

Prerequisite: Variable depending on areas of special interest. Contact the Division of Music for further details.

MUSIC 3311 (2311)**Music Theory III***Credit hours: 3.0**Contact hours per week: 3-3-0*

Introduction to chromatic tertian melody and harmony, modulation and three-voice counterpoint using a compositional approach; development of parallel aural, sight-singing and keyboard skills.

Prerequisite: Music 2211.

MUSIC 3411 (2411)**Music Theory IV***Credit hours: 3.0**Contact hours per week: 3-3-0*

Further study of chromatic tertian melody and harmony, modulation and three-voice counterpoint using a compositional approach; development of parallel aural, sight-singing and keyboard skills.

Prerequisite: Music 3311 (2311).

MUSIC 3348 (2348)**Music Studio III - (Instrument)***Credit hours: 3.0**Contact hours per week: 1-4-0*

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio II (see note below).

Note: Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.

MUSIC 3448 (2448)**Music Studio IV - (Instrument)***Credit hours: 3.0**Contact hours per week: 1-4-0*

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio III (see note below).

Note: Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.

Music 3500 - Music 3648

MUSIC 3500 **Conducting I**

Credit hours: 3.0

Contact hours per week: 3-0-3

Principles of conducting, style, score preparation, leadership, conducting and rehearsal techniques. Course requirements include: participation in and observation of, rehearsals and performances of a Division of Music ensemble as assigned by the instructor.

Prerequisite: Music 2111 and 2421.

Corequisite: Music 2211.

MUSIC 3510 **Choral Conducting**

Credit hours: 3.0

Contact hours per week: 3-0-3

Study of choral conducting; style, score preparation, conducting and rehearsal techniques. Course requirements will include participation in one of the University's choral ensembles. Students will normally have the opportunity to conduct one of these ensembles in a rehearsal or performance situation.

Prerequisite: Music 3500.

MUSIC 3511 **Modal Counterpoint**

Credit hours: 3.0

Contact hours per week: 3-0-0

Modal melody and the combination of melodic lines in the 16th Century contrapuntal style; appraisal of excerpts from the literature; composition of examples; development of parallel aural and sight-singing skills.

Prerequisite: Music 3411 (2411).

MUSIC 3521 **History and Literature of Music in Western Civilization III: Antiquity, Medieval and Renaissance Periods**

Credit hours: 3.0

Contact hours per week: 3-0-0

Western music history to 1600 with emphasis on musical styles, forms and compositional features as found in the works of representative composers; aural recognition of selected compositions.

Prerequisite: Music 2321 and 2421.

MUSIC 3530 **Instrumental Conducting**

Credit hours: 3.0

Contact hours per week: 3-0-3

Other hours: 0-0-40

Study of instrumental conducting; style, score preparation, conducting and rehearsal techniques. Course requirements will include participation in and/or observation of one of the University's instrumental ensembles. Students may have the

opportunity to conduct one of these ensembles in a rehearsal or performance situation.

Prerequisite: Music 3500.

MUSIC 3548 **Music Studio V - (Instrument)**

Credit hours: 3.0

Contact hours per week: 1-4-0

A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio IV (see note below).

Note: *Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.*

MUSIC 3611 **Theory and Composition in the 20th Century**

Credit hours: 3.0

Contact hours per week: 3-1-0

Analysis of excerpts from the literature; composition of examples in selected idioms; development of aural, sight-singing and keyboard skills.

Prerequisite: Music 3411 (2411).

MUSIC 3621 **History and Literature of Music in Western Civilization IV: The 20th Century**

Credit hours: 3.0

Contact hours per week: 3-0-0

Twentieth Century trends in "Classical" music with emphasis on musical styles, forms and compositional features as found in the works of representative 20th Century composers; aural recognition of selected compositions.

Prerequisite: Music 2321 and 2421.

MUSIC 3648 **Music Studio VI - (Instrument)**

Credit hours: 3.0

Contact hours per week: 1-4-0

A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio V (see note below).

Note: *Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.*

MUSIC 3721 (2600)**World Music***Credit hours: 3.0**Contact hours per week: 3-0-0*

An introduction to music in selected world cultures and to the field of ethnomusicology.

Prerequisite: Music 1000, Music 1021, or a previous course (3.0 credit hours) in music history.

MUSIC 3850**Topics in Music***Credit hours: 3.0**Contact hours per week: Variable*

Topics in Music not covered by regular courses may be offered under this designation, depending on student interest and availability of faculty and expertise.

MUSIC 4000**Seminar in Music (Series)***Credit hours: 3.0**Contact hours per week: 3-0-0*

Topics of special interest not covered by regular music courses may be offered under this designation, depending upon student interest and availability of faculty.

Prerequisite: Variable depending on topic. Contact the Division of Music for further details.

MUSIC 4060**Advanced Study in Music***Credit hours: 3.0**Contact hours per week: 3-0-0*

A research-oriented seminar.

Prerequisite: Music 3648.

MUSIC 4611**Form and Analysis***Credit hours: 3.0**Contact hours per week: 3-0-0*

A survey of standard forms and analytical procedures using selected examples from the musical literature.

Prerequisite: Music 2321 and 3411 (2411).

MUSIC 4711**Orchestration***Credit hours: 3.0**Contact hours per week: 3-0-2*

Characteristics and limitations of musical instruments; appraisal of compositions representative of various facets of the art of orchestration; scoring and arrangement for selected instrumental combinations. Course requirements may include: concert attendance, directed score study, prescribed listening.

Prerequisite: Music 3411 (2411).

MUSIC 4721**Canadian Music***Credit hours: 3.0**Contact hours per week: 3-0-0*

An examination of the music of selected Canadian composers representative of trends in the history of Canadian Music.

Prerequisite: Music 3621.

MUSIC 4748**Music Studio VII - (Instrument)***Credit hours: 3.0**Contact hours per week: 1-4-0*

A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite: A minimum grade of C in Music Studio VI (see note below).

Note: *Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.*

MUSIC 4811**Composition I***Credit hours: 3.0**Contact hours per week: 3-0-0*

Twentieth Century compositional techniques through creative projects in selected contemporary styles. Composition of short works for selected instrumental and/or vocal media.

Prerequisite: Music 3611.

MUSIC 4812**Composition II***Credit hours: 3.0**Contact hours per week: 3-0-0*

Twentieth Century compositional techniques through creative projects in selected contemporary styles. Composition of short works for selected instrumental and/or vocal media.

Prerequisite: Music 4811.

MUSIC 4848**Music Studio VIII - (Instrument)***Credit hours: 3.0**Contact hours per week: 1-4-0*

One hour of individual and up to four hours of master class instruction per week; concert attendance requirement. A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Design and presentation of a recital in lieu of examination.

Prerequisite: A minimum grade of C in Music Studio VII (see note below).

Note: *Studio courses and their prerequisite must be taken in consecutive Fall/Spring semesters, otherwise an audition is required. Should a grade of less than C be earned in a studio course prerequisite, advancement in the studio sequence shall depend upon the results of an audition.*

Music 4850 - Music Ensemble Activity 1550

MUSIC 4850

Topics in Music

Credit hours: 3.0

Contact hours per week: Variable

Topics in Music not covered by regular courses may be offered under this designation, depending on student interest and availability of faculty and expertise.

MUSIC ENSEMBLE ACTIVITY

MUSIC ENSEMBLE ACTIVITY 1150

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1151

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 1150.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1250

Accompanying I

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Audition. Contact the Division of Music for further details.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1251

Accompanying II

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 1250 and audition.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1350

University Wind Orchestra

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Audition. Contact the Division of Music for further details.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1351

University Wind Orchestra

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 1350 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1550

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Audition. Contact the Division of Music for further details.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 1551

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 1550 and audition.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2150

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 1151.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2151

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 2150.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2250

Accompanying III

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 1251 and audition.

Grading: Pass/Fail.

Note: Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2251

Accompanying IV

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 2250 and audition.

Grading: Pass/Fail.

Note: Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2350

University Wind Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 1351 and audition.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2351

University Wind Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 2350 and audition.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 2550

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 1551 and audition.

Grading: Pass/Fail.

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

Music Ensemble Activity 2551 - Music Ensemble Activity 3350

MUSIC ENSEMBLE ACTIVITY 2551

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 2550 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 2950

Jazz Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

Prerequisite: Audition. Contact the Division of Music for further details.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 2951

Jazz Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

Prerequisite: Music Ensemble Activity 2950 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3150

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. Weekly rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 2151.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3151

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-3-0

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. Weekly rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 3150.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3250

Accompanying V

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 2251 and audition.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3251

Accompanying VI

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 3250 and audition.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3350

University Wind Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. Weekly rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 2351 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 3351**University Wind Ensemble***Credit hours: 1.5**Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. Weekly rehearsals and performances as may be required.

*Prerequisite: Music Ensemble Activity 3350 and audition.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3550**University Singers***Credit hours: 1.5**Contact hours per week: 0-0-3*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite: Music Ensemble Activity 2351 and audition.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3551**University Singers***Credit hours: 1.5**Contact hours per week: 0-3-0*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite: Music Ensemble Activity 3550 and audition.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3750**Collegium Musicum***Credit hours: 1.5**Contact hours per week: 0-0-3*

Participatory studies in early music performance practice with a focus on the music of the Medieval and Renaissance periods. This ensemble's activities will include the preparation for performance of early music, making use of the Department's collection of early instruments. Weekly rehearsals.

*Prerequisite: Audition. Contact the Division of Music for further details.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3751**Collegium Musicum***Credit hours: 1.5**Contact hours per week: 0-0-3*

Participatory studies in early music performance practice with a focus on the music of the Medieval and Renaissance periods. This ensemble's activities will include the preparation for performance of early music, making use of the Department's collection of early instruments. Weekly rehearsals.

*Prerequisite: Music Ensemble Activity 3750 and audition.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3870**Chamber Music***Credit hours: 1.5**Contact hours per week: 1-0-3*

Chamber music performances with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

*Prerequisite: Audition. Only prearranged ensembles may apply. Contact the Division of Music for further details.**Grading: Pass/Fail.*

Note: Also available to all qualified students on a non-credit basis. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3871**Chamber Music***Credit hours: 1.5**Contact hours per week: 1-0-3*

Chamber music performances with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

*Prerequisite: Music Ensemble Activity 3870.**Grading: Pass/Fail.*

Note: Subject to availability of the instructor. Attendance requirement.

MUSIC ENSEMBLE ACTIVITY 3950**Jazz Ensemble***Credit hours: 1.5**Contact hours per week: 0-0-3*

Participatory studies of the art of jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

*Prerequisite: Music Ensemble Activity 2951 and audition.**Grading: Pass/Fail.*

Music Ensemble Activity 3951 - Music Ensemble Activity 4550

MUSIC ENSEMBLE ACTIVITY 3951

Jazz Ensemble

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

Prerequisite: Music Ensemble Activity 3950 and audition.

Grading: Pass/Fail.

MUSIC ENSEMBLE ACTIVITY 4150

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 3151.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4151

Vox Musica

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies of the art of choral singing, with a focus on historical and stylistic performance practices in connection with selected choral literature. The choir's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

Prerequisite: Music Ensemble Activity 4150.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4250

Accompanying VII

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 3251 and audition.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4251

Accompanying VIII

Credit hours: 1.5

Contact hours per week: 1-0-3

Participatory studies in the art of accompanying. Accompanying activities will include weekly class meetings as well as supplementary rehearsals and/or performances with assigned singers or instrumentalists.

Prerequisite: Music Ensemble Activity 4250 and audition.

Grading: Pass/Fail.

Note: *Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4350

University Wind Orchestra

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 3351 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4351

University Wind Orchestra

Credit hours: 1.5

Contact hours per week: 0-0-4

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 4350 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4550

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 3551 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4551

University Singers

Credit hours: 1.5

Contact hours per week: 0-0-3

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

Prerequisite: Music Ensemble Activity 4550 and audition.

Grading: Pass/Fail.

Note: *Also available to all qualified students on a non-credit basis. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4870

Chamber Music

Credit hours: 1.5

Contact hours per week: 1-0-3

Chamber music performance with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

Prerequisite: Music Ensemble Activity 3851.

Grading: Pass/Fail.

Note: *Subject to availability of the instructor and funding. Attendance requirement.*

MUSIC ENSEMBLE ACTIVITY 4871

Chamber Music

Credit hours: 1.5

Contact hours per week: 1-0-3

Chamber music performance with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

Prerequisite: Music Ensemble Activity 4870.

Grading: Pass/Fail.

Note: *Subject to availability of the instructor and funding. Attendance requirement.*

NATIVE AMERICAN STUDIES

NATIVE AMERICAN STUDIES 1000

Introduction to Native American Studies

Credit hours: 3.0

Contact hours per week: 3-0-0

Native culture and heritage from traditional through contemporary times. A general survey of disciplinary areas such as art, politics, language, history.

NATIVE AMERICAN STUDIES 2000

Native American Philosophy

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the underlying philosophies, perceptions of reality and world-views of Native Americans.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2100

Aboriginal Peoples and Law

Credit hours: 3.0

Contact hours per week: 3-0-0

Historical and comparative exploration of the role of law in managing relationships between indigenous peoples and immigrants, including an introduction to basic concepts and theories in human rights, Western jurisprudence and the study of colonial and post-colonial societies, focusing on Canadian Native peoples, their Aboriginal rights, treaties, and the operation of the Indian Act.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2150

Native Rights in the United States

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the legal relationships between the Native peoples and the United States government; Aboriginal rights, treaties, Indian Reorganization Act and certain rights such as hunting, fishing, trapping and taxation.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2300

Native American Indian Art History and Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the political, cultural and historical arguments for North American Indian art. Theoretical and historical topics of discussion will be of primary concern.

NATIVE AMERICAN STUDIES 2350

Native American Indian Art Studio

Credit hours: 3.0

Contact hours per week: 2-4-0

North American Indian art forms, design, philosophy, techniques, aesthetics and theory.

Recommended background: Native American Studies 1000 or 2300 or Art 1000.

Native American Studies 2400 - Native American Studies 3400

NATIVE AMERICAN STUDIES 2400 **Traditional Aboriginal Political Economy**

Credit hours: 3.0

Contact hours per week: 3-0-0

Drawing on Aboriginal philosophy and analytical methods from geography, economic anthropology and sociology, an exploration of interrelationships between technology, ecology, culture and the distribution of goods, status and power in Aboriginal societies, in North America and elsewhere, and the changes brought about by their historical integration into market economies.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2500 **Canadian Indian History**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the history of the Aboriginal peoples of Canada from the pre-colonial period to the present.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2550 **U.S. Indian History**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the history of Indians in the United States from the pre-colonial period to the present.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2600 **Native American Literature**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the North American Native in literature as developed by Native and non-Native writers.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2700 **Native American Women**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the traditional and contemporary role of women in Native American culture and society, including the impact of external policy decisions on these roles.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 2800 **Native American Politics**

Credit hours: 3.0

Contact hours per week: 3-0-0

The contemporary political situation of Indians in Canada from a Native perspective. Evolution and development of government-Native relations.

Prerequisite: Native American Studies 1000.

NATIVE AMERICAN STUDIES 3000 **Native American Philosophy - Advanced**

Credit hours: 3.0

Contact hours per week: 3-0-0

Philosophical examination of Native American religious beliefs.

Prerequisite: Native American Studies 2000.

NATIVE AMERICAN STUDIES 3100 **Law and Aboriginal Development in Canada**

Credit hours: 3.0

Contact hours per week: 3-0-0

Systematic study of Canadian legislation, judicial decisions and legal principles relevant to self-government and development in Aboriginal communities and territories, focusing on skills in legal research, the interpretation of legal materials and use of legal argumentation in areas such as taxation, licensing, natural resource leasing and regulatory jurisdiction.

Prerequisite: Native American Studies 2100.

NATIVE AMERICAN STUDIES 3200 **Seminar in Native American Languages**

Credit hours: 3.0

Contact hours per week: 3-0-0

Classification of Native American languages into families. Broad survey of sound systems, morphological types and syntax of Native American languages, with a detailed examination of these in selected languages.

Prerequisite: Linguistics 2300.

NATIVE AMERICAN STUDIES 3300 **Canadian Indian Art History and Theory**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of the political, cultural and historical arguments for Canadian Indian art. Theoretical and historical topics of discussion will be of primary concern.

Prerequisite: Native American Studies 2300.

NATIVE AMERICAN STUDIES 3350 **Native American Indian Art Studio - Advanced**

Credit hours: 3.0

Contact hours per week: 3-0-0

Advanced techniques and design utilizing experimental art forms and philosophy as derived from the Native perspective.

Prerequisite: Native American Studies 2350.

NATIVE AMERICAN STUDIES 3400 **Contemporary Aboriginal Political Economy**

Credit hours: 3.0

Contact hours per week: 3-0-0

Comparative examination of interrelationships between land, forms of self-government, socio-economic development strategy

and environmental sustainability for contemporary Aboriginal peoples in North America and other regions of the world, with an emphasis on implications for Aboriginal peoples' policy and administration in Canada, and focus on learning relevant field research skills.

Prerequisite: Native American Studies 2400.

NATIVE AMERICAN STUDIES 3500 **History of Prairie Indian Treaties**

Credit hours: 3.0

Contact hours per week: 3-0-0

An examination of historical accounts of treaty negotiations and consequences on the prairies, with special attention to treaty periods in Alberta.

Prerequisite: Native American Studies 2500.

NATIVE AMERICAN STUDIES 3550 **U.S. Indian Policy**

Credit hours: 3.0

Contact hours per week: 3-0-0

Major U.S. policy decisions regarding Indians and Indian land from the Act of 1830 to the present.

Prerequisite: Native American Studies 2550.

NATIVE AMERICAN STUDIES 3600 **Native American Literature - Advanced**

Credit hours: 3.0

Contact hours per week: 3-0-0

Native American cosmology and thought as seen in Native literature from oral literature to contemporary literature.

Prerequisite: Native American Studies 2600.

Recommended background: Native American Studies 2000.

NATIVE AMERICAN STUDIES 3700 **Native American Health**

Credit hours: 3.0

Contact hours per week: 3-0-0

Health conditions of Native Americans and a survey of related health services and agencies, especially in Canada.

Prerequisite: Native American Studies 2100 or 2800.

NATIVE AMERICAN STUDIES 3850 **Selected Topics in Native American Studies**

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected topics to be offered depending on student interest and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

NATIVE AMERICAN STUDIES 4110 **The Fourth World**

Credit hours: 3.0

Contact hours per week: 3-0-0

Critical study of contemporary indigenous peoples globally, including their socio-economic conditions, evolving legal status, national and international political movements, participation in the United Nations and other intergovernmental organizations, and the significance of global economic integration (e.g., free trade, privatization, intellectual property rights).

Prerequisite: Native American Studies 2100.

NATIVE AMERICAN STUDIES 4400 **Indians and the Criminal Justice System**

Credit hours: 3.0

Contact hours per week: 3-0-0

Criminal justice, the penal system and Native Americans.

Prerequisite: Native American Studies 2100 or 2500.

NATIVE AMERICAN STUDIES 4700 **The Métis**

Credit hours: 3.0

Contact hours per week: 3-0-0

History, sociocultural aspects and contemporary issues of the Métis.

Prerequisite: Native American Studies 2500 and 3500.

NATIVE AMERICAN STUDIES 4850 **Selected Topics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected topics to be offered depending on student interest and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

NURSING

NURSING 1010 **Nursing Foundations**

Credit hours: 3.0

Contact hours per week: 3-0-0

Sets the stage for the entire nursing program, including its philosophical underpinnings and the relationship of theory, practice and research to the study and practice of nursing. The expectations of the student as a learner and as a neophyte professional person are examined as is the place of nursing within the total health care context.

Note: This course is offered as Nursing 200 at Medicine Hat College and Nursing 170 at Lethbridge Community College.

Nursing 1100 - Nursing 2140

NURSING 1100

Therapeutic Communication

Credit hours: 3.0

Contact hours per week: 3-0-3

Course includes theory and skill development related to the transmission and reception of messages. The student will be introduced to the therapeutic interview, and small and large group work. Skills in communication and collaboration will be practiced in laboratory and community settings.

Corequisite: Nursing 1010.

Note: This course is offered as Nursing 210 at Medicine Hat College and Nursing 171 at Lethbridge Community College.

NURSING 1200

Focus on Health

Credit hours: 3.0

Contact hours per week: 3-0-0

The concept of health is defined and discussed, including its meaning across the life span, major influences of health and lifestyle practices. Health status appraisal and health promotion counselling will be emphasized for nursing students.

Prerequisite: Nursing 1010, 1100 or permission of the instructor.

- Note:**
1. This course may be taken by other than nurses.
 2. This course is offered as Nursing 220 at Medicine Hat College and Nursing 174 at Lethbridge Community College.

NURSING 1250

Basic Health Assessment

Credit hours: 3.0

Contact hours per week: 3-0-6

The student will be introduced to principles and techniques of health assessment of healthy adults with attention to normal aging modifications. Lab and clinical experience will allow students to assess the health status of adult clients. Beginning nursing skills are also introduced.

Prerequisite: Nursing 1010 and 1100.

Note: This course is offered as Nursing 225 at Medicine Hat College and Nursing 175 at Lethbridge Community College.

NURSING 1350

Basic Clinical Practicum

Credit hours: 5.0

Contact hours per week: 6.5-0-30

Students will continue to build upon assessment and basic nursing skills. They will be introduced to the nursing process in planning and providing nursing care. Practicum focus will be client-centered care of adults in institutional settings.

Prerequisite: All term one and term two courses.

- Note:**
1. This course is offered over six weeks during Summer Session.
 2. This course is offered as Nursing 235 at Medicine Hat College and Nursing 180 at Lethbridge Community College.

NURSING 1999

Collaborative Registration Placeholder

This is a placeholder registration for students admitted to the Basic (Four-Year) Nursing program who are studying at an associated college.

Note: No fees are assessed for this registration.

NURSING 2010

Social and Cultural Issues Influencing Health Care

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduces the student to issues related to the nurse/client as a member of a family, a culture and the society. The student will study factors that influence the individual's view of health and illness and attitudes toward care including culture, ethnicity and life experience, and will develop appropriate nursing strategies for these factors.

Prerequisite: Nursing 1010 and 1200 or permission of the instructor.

- Note:**
1. This course could be taken by non-nursing students.
 2. This course is offered as Nursing 300 at Medicine Hat College and Nursing 270 at Lethbridge Community College.

NURSING 2120

Pharmacotherapeutics for Nurses

Credit hours: 3.0

Contact hours per week: 3-0-0

Course focuses on drugs and their therapeutic use and effects. The nurse's role in obtaining the optimal effect of drug therapy and dealing with the adverse effects of drugs is explored.

Prerequisite: Nursing 1010 and 1250.

Note: This course is offered as Nursing 312 at Medicine Hat College and Nursing 271 at Lethbridge Community College.

NURSING 2130

Disruptions in Health

Credit hours: 3.0

Contact hours per week: 3-0-0

Defines, describes and discusses some basic issues, principles, investigations and interventions involved in deviations from normal patterns of health.

Prerequisite: Nursing 2120 and Biology 231 (offered at Medicine Hat College) or Biology 162 (offered at Lethbridge Community College).

Note: This course is offered as Nursing 313 at Medicine Hat College and Nursing 272 at Lethbridge Community College.

NURSING 2140

Nursing of Adults

Credit hours: 5.0

Contact hours per week: 4-0-15

Theory and practice related to care of the adult and their adaptation to health disruption. Practicum will occur in medical, surgical, homecare and extended care settings.

Prerequisite: Nursing 2130.

Corequisite: Nursing 2120 and 2130.

Note: This course is offered as Nursing 314 at Medicine Hat College and Nursing 274 at Lethbridge Community College.

NURSING 2220 Health Education

Credit hours: 3.0

Contact hours per week: 4-0-0

Theories, principles and issues in patient/client education and health promotion. Special consideration will be given to age, gender and culture-related learning needs. Laboratory experience will include experimentation with different teaching methodologies with different age groups.

Prerequisite: Nursing 1100.

Note: This course is offered as Nursing 322 at Medicine Hat College and Nursing 275 at Lethbridge Community College.

NURSING 2250 Nursing of Neonates, Children and Families

Credit hours: 5.0

Contact hours per week: 4-0-15

Health care of the neonate, child and the child bearing/child rearing family. Clinical practica will occur in institutional and community settings.

Prerequisite or Corequisite: Nursing 2130.

Note: This course is offered as Nursing 325 at Medicine Hat College and Nursing 273 at Lethbridge Community College.

NURSING 2350 Rural Nursing

Credit hours: 5.0

Contact hours per week: 6.5-0-30

This practicum allows the student to consolidate his/her clinical experiences to date. Issues related to the delivery of health care in rural areas will be examined. Practicum placement will be primarily in institutional settings in rural areas.

Prerequisite: All second-year courses.

Note: 1. This course is offered over six weeks during Summer Session.
2. This course is offered as Nursing 335 at Medicine Hat College and Nursing 280 at Lethbridge Community College.

NURSING 2999 Collaborative Registration Placeholder

This is a placeholder registration for students admitted to the Basic (Four-Year) Nursing program who are studying at an associated college.

Note: No fees are assessed for this registration.

NURSING 3000 Nursing Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Discussion of the development of major concepts and theories in nursing as well as trends affecting professional nursing practice, research and education.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 3002 Health Education

Credit hours: 3.0

Contact hours per week: 3-0-0

An overview of the theory essential to health education including health promotion; models of health, health education and learning; ethical concerns in education and basic teaching methods and tools.

Prerequisite: Nursing 3000.

NURSING 3003/BIOLOGY 3003 Epidemiology: The Ecology of Health and Disease

Credit hours: 3.0

Contact hours per week: 3-0-0

Scope and application of epidemiology in relation to factors that affect health and contribute to disease in a global context.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program or three courses (9.0 credit hours) in Biological Sciences.

NURSING 3004 Health Assessment

Credit hours: 3.0

Contact hours per week: 1-2-0

A systems approach is utilized in gathering comprehensive health data from the well adult. The appraisal of anatomic and physiologic systems within the client's context of family, community and environment is focused upon.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 3005 Nursing Management - Concepts and Principles

Credit hours: 3.0

Contact hours per week: 3-0-0

Examination of major concepts and principles of management including planning, organizing, leading, staffing and guiding.

Prerequisite: Nursing 3000.

Nursing 3006 - Nursing 4125

NURSING 3006 Nursing Practicum

*Credit hours: 3.0
Contact hours per week: 0-0-0
Other hours: 0-0-140*

Students choose a clinical placement from a variety of health care settings.

Prerequisite: Completion of all other 3000-level Nursing courses.

NURSING 3007 Community Nursing

*Credit hours: 3.0
Contact hours per week: 3-0-0*

Examines the organization and structure of community health care systems. Family assessment and certain community health issues are introduced.

Prerequisite: Nursing 3000 and 3003.

NURSING 3010 Ecological Health Care Issues

*Credit hours: 3.0
Contact hours per week: 3-0-0*

Ecological issues related to health care will be examined. These include epidemiologic, social, cultural, physical, political and economic contexts and issues that influence health and health care delivery.

Prerequisite: Nursing 2350.

Note: *This course is offered as Nursing 410 at Medicine Hat College and Nursing 370 at Lethbridge Community College.*

NURSING 3140 Community Nursing

*Credit hours: 5.0
Contact hours per week: 4-0-15*

Theory and practice will prepare the student to assist individuals and groups to recognize and use health promoting, health maintaining and disease preventing behaviours. Principles and issues related to consultation and interdisciplinary team membership will be explored. Practica will be organized in a variety of community settings.

Prerequisite: Nursing 3010 (Nursing 410 at MHC; Nursing 370 at LCC).

Note: *This course is offered as Nursing 414 at Medicine Hat College and Nursing 371 at Lethbridge Community College.*

NURSING 3220 Nursing Research

*Credit hours: 3.0
Contact hours per week: 3-0-0*

Introduction to the philosophy, processes and applications of scientific nursing investigation; concepts and methods of qualitative and quantitative research will be examined.

Prerequisite: Statistics 1770 (Statistics 213 at MHC; Statistics 250 at LCC).

Note: *This course is offered as Nursing 422 at Medicine Hat College and Nursing 373 at Lethbridge Community College.*

NURSING 3250 Disruptions and Deviations in Mental Health

*Credit hours: 5.0
Contact hours per week: 4-0-15*

Theory and practice related to the promotion of mental health, the prevention of mental health problems and the management of mental health disorders. Practica will be arranged in hospitals and other mental health settings.

Prerequisite: Nursing 2350 and Psychology 3500.

Note: *This course is offered as Nursing 425 at Medicine Hat College and Nursing 372 at Lethbridge Community College.*

NURSING 3999 Collaborative Registration Placeholder

This is a placeholder registration for students admitted to the Basic (Four-Year) Nursing program who are studying at an associated college.

Note: *No fees are assessed for this registration.*

NURSING 4003 Nursing Research

*Credit hours: 3.0
Contact hours per week: 3-0-0*

Discussion and application of the research process in contemporary nursing practice.

Prerequisite: A Statistics course (3.0 credit hours).

NURSING 4004 Contemporary Issues in Nursing

*Credit hours: 3.0
Contact hours per week: 3-0-0*

Analysis of selected social, economic, ethical and political issues that are of current interest or influence.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 4010 Nursing and Community Development

*Credit hours: 3.0
Contact hours per week: 3-0-0*

The assessment of community-based needs and the identification of community development and social marketing strategies to effect change.

Prerequisite: Nursing 3140 (Nursing 414 at MHC; Nursing 371 at LCC).

NURSING 4125 Management in Nursing

*Credit hours: 4.0
Contact hours per week: 3-0-4*

The environment of management within the health care system will be examined, including cultural assumptions, organizational change, communication, innovation and diffusion, leadership,

decision-making processes; effective use of human and material resources; responsibility to family, corporation and society.

Prerequisite: Completion of all third-year Nursing courses.

Note: *The student will be required to spend up to 52 hours (an average of four hours a week) in a clinical setting pursuing a project, the dimensions of which have been agreed to by the professor and a field supervisor.*

NURSING 4130

Special Issues in Nursing

Credit hours: 3.0

Contact hours per week: 3-0-0

A wide range of topics that influence the practice of nursing will be discussed, including historical issues, gender issues, legal issues, collective bargaining and the role of professional associations.

Corequisite: Nursing 4010.

NURSING PROFESSIONAL SEMESTER (Spring)

This professional semester is comprised of two parts, each 6.5 weeks in length. The first, Nursing 4240, will be spent acquiring knowledge and skills in a particular clinical specialty area. Students will be able to choose from a list of possible areas. The transcript will identify the specialty area chosen.

The second, Nursing 4250, will require the undertaking of an approved clinical practicum in a nursing area of the student's choice. In some instances, the choice of a clinical focus in the first part will dictate the choice for the second part.

In order to meet the requirements of this professional semester both these parts must be taken in the order given.

NURSING 4240 Senior Clinical Nursing (Series)

Credit hours: 8.0

Contact hours per week: 6-0-0

Other hours: 0-0-182

Advanced theory and practice in an area of clinical studies. The student may choose from a limited group of offerings.

Prerequisite: All courses except Nursing 4250.

Note: *This course is offered during the first-half of the semester only.*

NURSING 4250 Senior Practicum

Credit hours: 7.0

Contact hours per week: 0-0-0

Other hours: 0-10-215

This is a capstone nursing experience. The student may choose from a variety of possible clinical placement areas with a wide geographic area and related to the focus of the senior nursing elective.

Prerequisite: Nursing 4240.

Note: *This course is offered during the second-half of the semester only.*

NURSING 4410

Advanced Nursing Management

Credit hours: 3.0

Contact hours per week: 3-0-0

A study of leadership with emphasis on skills required by first-level nurse managers.

Prerequisite: Nursing 3005.

NURSING 4500

Advanced Community Nursing

Credit hours: 3.0

Contact hours per week: 3-0-0

Discussion and application of community assessment and interventions. Stresses community as client.

Prerequisite: Nursing 3007.

NURSING 4600

Advanced Health Education

Credit hours: 3.0

Contact hours per week: 3-0-0

Indepth application of health education theory to individuals, families and groups in practice settings. Includes discussion of social marketing, program evaluation and collaborative techniques.

Prerequisite: Nursing 3002.

NURSING 4701

Transcultural Nursing

Credit hours: 3.0

Contact hours per week: 3-0-0

Discussion of the effects of different cultural values, beliefs and lifeways on the perception of health or illness and on the provision or reception of health care.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 4702

Legal Issues in Nursing

Credit hours: 3.0

Contact hours per week: 3-0-0

An introduction to Canadian legal theory and practice as it affects health care delivery in general and nursing practice in particular.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 4801

History of Nursing

Credit hours: 3.0

Contact hours per week: 3-0-0

Discussion of historical events affecting nursing and the delivery of health care services within a Canadian context.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

Nursing 4802 - Philosophy 2060

NURSING 4802

Gerontology

Credit hours: 3.0

Contact hours per week: 3-0-0

The biology, sociology, psychology and demographics of aging in the Western world are considered. Ways of supporting the elderly in the community and improving their care and management in the hospital are discussed.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program.

NURSING 4805

Women and Health

Credit hours: 3.0

Contact hours per week: 3-0-0

Concerns of women in health and illness are explored in relation to current formal and informal health care practices.

Prerequisite: Admissibility to the School of Nursing Post-Diploma Program or ten university courses (30.0 credit hours).

NURSING 4806/BIOLOGY 4806

Immunology

Credit hours: 3.0

Contact hours per week: 3-0-0

Biological role of immunity and natural resistance.

Prerequisite: Completion of all 3000-level Nursing courses or ten courses (30.0 credit hours) from the Science list (see Part 5, Section 16 - Divisional Course Designation, pp. 78-79).

NURSING 4850

Selected Topics

Credit hours: 3.0

Contact hours per week: 3-0-0

Please contact the School of Nursing Program Advisor for information regarding what topics courses will be offered. Recommended background and prerequisites will be specified for each topic area.

Prerequisite: Will be specified for each topic area.

NURSING 4990

Independent Studies

Credit hours: 3.0

Contact hours per week: 3-0-0

Please contact the School of Nursing Program Advisor for information regarding registration procedures for Independent Studies.

PHILOSOPHY

PHILOSOPHY 1000

Introduction to Philosophy

Credit hours: 3.0

Contact hours per week: 3-0-0

Main problems of Philosophy in such fields as theory of knowledge, metaphysics, ethics, politics, philosophy of science and philosophy of religion.

PHILOSOPHY 2000

Studies in Philosophy (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Specific philosophical issues, depending on student interests and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

PHILOSOPHY 2010

Ancient Philosophy

Credit hours: 3.0

Contact hours per week: 3-0-0

The first thousand years of Western philosophy; its scope, development and influence. The pre-Socratic philosophers, Socrates and Plato, Aristotle, the Epicureans, the Stoics, Early Church Fathers, Platonism, St. Augustine.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2030

Philosophy in the 17th and 18th Centuries: Empiricism and Continental Rationalism

Credit hours: 3.0

Contact hours per week: 3-0-0

Important writings of Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume and Kant, especially those relative to the nature and knowledge of reality. Relationships between the sciences and philosophy.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2060

Existentialism and Phenomenology

Credit hours: 3.0

Contact hours per week: 3-0-0

Basics of the phenomenological method and an introduction to existentialism through philosophical and literary texts.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2111
Introduction to Value Theory

Credit hours: 3.0
Contact hours per week: 3-0-0

Evaluative thought and language, values and facts, kinds of value (quality of life, normality, vice and virtue, justice, ethics, morality, aesthetics, etc.). Justification of evaluative standards and evaluations in particular cases. Contemporary and historical thought.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2120
Contemporary Moral Problems

Credit hours: 3.0
Contact hours per week: 3-0-0

Basic concepts, principles and arguments involved in such controversial issues as capital punishment, abortion, euthanasia, sexual morals, genetic control, women's liberation, the nature of the family, rights of future generations.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111.

PHILOSOPHY 2150
Aesthetics

Credit hours: 3.0
Contact hours per week: 3-0-0

Major philosophical views of art and literature in such thinkers as Plato, Aristotle, Kant, Hegel, Croce, Dewey.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2210
Philosophy of Religion

Credit hours: 3.0
Contact hours per week: 3-0-0

Problems of religious discourse; arguments for the existence of God; pragmatic arguments; skeptical views. Readings from such thinkers as St. Thomas, Hume, Kierkegaard, James, Feuerbach.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2220
Philosophy of Mind

Credit hours: 3.0
Contact hours per week: 3-0-0

Analysis of concepts crucial to thought about mental phenomena; mind, emotions, sensation, motivation, intention, the unconscious, pleasure, love. More general issues such as the relation between minds and bodies, personal identity, the nature of explanation in psychology.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2231
Philosophy and the World View of Science: Space, Time and Matter

Credit hours: 3.0
Contact hours per week: 3-0-0

The world view of contemporary physical science: brief sketches of special and general relativity, quantum mechanics and relativistic cosmology. Implications for religion, mysticism, mathematics and logic. Reduction, interpretation and proof of theories. Nature of space, time, causality, scientific revolution and theoretical entities.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 2232
Philosophy and the World View of Science: Earth and Life Sciences

Credit hours: 3.0
Contact hours per week: 3-0-0

The world view of contemporary earth and life science: brief sketches of stratigraphy, continental drift, evolution and genetics. The implications for religion and morality: evolution versus creationism, geology versus Genesis. Problems of the reduction of biology, historical explanations, biological species and fitness.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 3000
Studies in Philosophy (Series)

Credit hours: 3.0
Contact hours per week: 3-0-0

Specific philosophical issues, depending on student interests and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

PHILOSOPHY 3260
Metaphysics

Credit hours: 3.0
Contact hours per week: 3-0-0

Views of the nature of reality and associated problems, for example, the nature of facts, the problem of universals and the nature of existence.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 3270
Theory of Knowledge

Credit hours: 3.0
Contact hours per week: 3-0-0

The nature of knowledge, both *a priori* and empirical; the nature of belief; and the nature of perception.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2220.

Philosophy 3280 - Philosophy 3407

PHILOSOPHY 3280

Philosophy of Language

Credit hours: 3.0

Contact hours per week: 3-0-0

Concepts of and controversies about various aspects of language. Relationships between thought and language, language and reality, meaningfulness and nonsense. Philosophical aspects of linguistics and translation. Writers discussed include Chomsky, Austin, Quine or their followers.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 3340

19th-Century Philosophy

Credit hours: 3.0

Contact hours per week: 3-0-0

Nineteenth-Century metaphysical and ideological thought.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2030.

PHILOSOPHY 3350

Analytic Philosophy in the 20th Century

Credit hours: 3.0

Contact hours per week: 3-0-0

Representative philosophers from the turn of the century to the present such as Bradley, Moore, Russell, Wittgenstein, Carnap, Ayer, Wisdom, Austin and Quine.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

PHILOSOPHY 3401

Social and Political Philosophy

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic concepts, principles and arguments generally relevant to political and social thought. Freedom and authority, individualism and community, justice and public interest, rights and responsibilities.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3402

Biomedical Ethics

Credit hours: 3.0

Contact hours per week: 3-0-0

An examination of moral reasoning regarding several main problems in bioethics, such as the distribution of health care resources; administering health care without the patient's consent; abortion and euthanasia; rights and obligations of physicians, nurses and patients; and the use of patients in medical experimentation.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3403

Philosophy of Love and Sex

Credit hours: 3.0

Contact hours per week: 3-0-0

The ideology of love, sex and related matters, such as masculinity, femininity and the ethics and politics of personal relationships.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3404

Philosophy of Law

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic concepts, principles and arguments of jurisprudence. The nature, kinds, justification and limits of law, liability (responsibility), defenses, agency, ownership, contract and the judicial decision-making process. Historical and contemporary controversies and writers.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3405

Philosophy of Feminism

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to feminist philosophy, focusing on controversies regarding the past and present exploitation of women and the nature and magnitude of social change required to realize gender justice.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3406

Business Ethics

Credit hours: 3.0

Contact hours per week: 3-0-0

An investigation of moral issues arising in business in a (mixed) market economy. Topics may include: pay equity, affirmative action, safety and privacy in the workplace, advertising and marketing tactics, insider trading, whistle blowing, the ethics of negotiation and codes of ethics for professionals.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3407

Social Justice and Property

Credit hours: 3.0

Contact hours per week: 3-0-0

An examination of moral and economic rationales and critiques of property rights and redistribution.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 3408
Feminist Moral Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Recent literature in feminist theory focusing on the possibility of a human versus gender based conception of rationality and objectivity in epistemology, ethics and politics.

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHILOSOPHY 4000
Studies in Philosophy (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Specific philosophical issues, depending upon student interests and available faculty.

Prerequisites and recommended backgrounds will be specified for individual courses.

PHILOSOPHY 4500
Great Works in Ethics (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

A close study of a small number (one or two) of important works of lasting value in ethics. Works selected may be contemporary or from any historical period. Specific selections will be at the discretion of the instructor(s).

Prerequisite: A previous course in Philosophy or Logic, or completion of seven courses (21.0 credit hours) in Arts and Science.

Recommended background: Philosophy 2111 or 2120.

PHYSICAL ACTIVITY

PHYSICAL ACTIVITY 1125
Rhythmic Gymnastics

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills and techniques of rhythmic gymnastics using balls, hoops, wands, streamers.

PHYSICAL ACTIVITY 1205
Folk and Square Dance

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills and fundamentals.

PHYSICAL ACTIVITY 1215
Social and Round Dance

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, fundamental step patterns and techniques of round and ballroom dance.

PHYSICAL ACTIVITY 1605
Curling

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, basic strategy and techniques.

PHYSICAL ACTIVITY 1615
Court Games

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills and strategy in squash and racquetball.

PHYSICAL ACTIVITY 1625
Golf

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, basic strategy and techniques.

PHYSICAL ACTIVITY 1635
Tennis

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, strategies and techniques.

PHYSICAL ACTIVITY 1655
Ice Skating

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills in figure skating.

PHYSICAL ACTIVITY 1665
Archery

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, basic strategies and techniques.

PHYSICAL ACTIVITY 1675
Bowling

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, basic strategy and techniques.

Physical Activity 1685 - Physical Activity 2535

PHYSICAL ACTIVITY 1685

Badminton

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, strategies and techniques.

PHYSICAL ACTIVITY 1695

Fencing

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of introductory skills, techniques and strategies of foil fencing.

PHYSICAL ACTIVITY 2005

Swimming I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of swimming strokes and aquatic skills equivalent to Red Cross White level.

Prerequisite: Ability to swim with confidence in deep water.

PHYSICAL ACTIVITY 2125

Artistic Gymnastics

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills, fundamentals and techniques in artistic gymnastic events.

PHYSICAL ACTIVITY 2155

Track and Field I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills and fundamental techniques of competitive track and field events.

PHYSICAL ACTIVITY 2225

Children's Dance

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of dance skills, exploration of movement fundamentals and creation and performance of dance for children.

PHYSICAL ACTIVITY 2235

Creative Dance

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills and fundamental techniques in creative, modern and interpretive dance.

PHYSICAL ACTIVITY 2405

Wrestling I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills, strategy, officiating, offensive and defensive techniques.

PHYSICAL ACTIVITY 2425 (1415)

Judo I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills, fundamental techniques and strategy.

PHYSICAL ACTIVITY 2445 (1645)

Weight Training I

Credit hours: 1.5

Contact hours per week: 0-3-0

Practice of weight training principles. Theoretical aspects of progressive resistance exercise training.

PHYSICAL ACTIVITY 2505

Basketball I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills, strategy, officiating, offensive and defensive techniques.

PHYSICAL ACTIVITY 2515

Football I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of basic skills, strategy, offensive and defensive techniques.

PHYSICAL ACTIVITY 2525

Ice Hockey I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of fundamental skills, strategy of play, officiating, offensive and defensive techniques.

PHYSICAL ACTIVITY 2535

Soccer I

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of fundamental skills, strategy of play, officiating, offensive and defensive techniques.

PHYSICAL ACTIVITY 2545**Volleyball I***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of basic skills, basic strategy, officiating and fundamental offensive and defensive techniques.

PHYSICAL ACTIVITY 2705**Outdoor Education - Summer Activities***Credit hours: 1.5**Contact hours per week: 0-0-0**Other hours: 0-0-140*

Development of skills in camping, canoeing and outdoor recreation.

Note: Usually offered in Summer Session I with outdoor experiences in one or two weekends.

PHYSICAL ACTIVITY 2715**Outdoor Education - Winter Activities***Credit hours: 1.5**Contact hours per week: 0-0-0**Other hours: 0-0-140*

Winter camping and survival skills associated with camping and cross-country skiing. Includes a series of lecture/seminars followed by a five-day camping trip.

Note: Usually offered in the Spring semester with outdoor experiences during Reading Week.

PHYSICAL ACTIVITY 3005**Swimming II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of advanced swimming skills and water safety knowledge leading to the Royal Life Saving Society (RLSS) Bronze Medallion, Senior Resuscitation and Bronze Cross Awards.

Prerequisite: Physical Activity 2005.

PHYSICAL ACTIVITY 3105**Men's Artistic Gymnastics***Credit hours: 1.5**Contact hours per week: 0-3-0*

Advanced skills and routines, training theories and coaching techniques in artistic gymnastics for men. Instruction in judging competitive performance.

Prerequisite: Physical Activity 2125.

PHYSICAL ACTIVITY 3115**Women's Artistic Gymnastics***Credit hours: 1.5**Contact hours per week: 0-3-0*

Advanced skills and routines, training theories and coaching techniques in artistic gymnastics for women. Instruction in judging competitive performance.

Prerequisite: Physical Activity 2125.

PHYSICAL ACTIVITY 3155**Track and Field II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of advanced skills, coaching strategies, training theory and techniques of analysis.

Prerequisite: Physical Activity 2155.

PHYSICAL ACTIVITY 3405**Wrestling II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of advanced skills and techniques, coaching strategies and training theory.

Prerequisite: Physical Activity 2405.

PHYSICAL ACTIVITY 3425 (2415)**Judo II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of advanced skills and techniques, coaching strategies and training theory.

Prerequisite: Physical Activity 2425 (1415).

PHYSICAL ACTIVITY 3445 (2645)**Weight Training II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Theory and practice of strength development through progressive resistance exercise.

Prerequisite: Physical Activity 2445 (1645).

PHYSICAL ACTIVITY 3505**Basketball II***Credit hours: 1.5**Contact hours per week: 0-3-0*

Development of advanced playing and officiating skills, competitive systems, techniques of game analysis, coaching strategies and training theory.

Prerequisite: Physical Activity 2505.

Physical Activity 3515 - Physical Education 2120

PHYSICAL ACTIVITY 3515

Football II

Credit hours: 1.5

Contact hours per week: 0-3-0

Advanced skills, coaching strategies and techniques and officiating of Canadian football.

Prerequisite: Physical Activity 2515.

PHYSICAL ACTIVITY 3525

Ice Hockey II

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of advanced playing and officiating skills, competitive systems, techniques of game analysis, coaching strategies and training theory.

Prerequisite: Physical Activity 2525.

PHYSICAL ACTIVITY 3535

Soccer II

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of advanced playing and officiating skills, competitive systems, techniques of game analysis, coaching strategies and training theory.

Prerequisite: Physical Activity 2535.

PHYSICAL ACTIVITY 3545

Volleyball II

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of advanced playing and officiating skills, competitive systems, techniques of game analysis, coaching strategies and training theory.

Prerequisite: Physical Activity 2545.

PHYSICAL ACTIVITY 4005

Swimming III

Credit hours: 1.5

Contact hours per week: 0-3-0

Development of superior swimming skills and water safety knowledge leading to the Royal Life Saving Society (RLSS) National Lifesaving Service Award.

Prerequisite: Physical Activity 3005.

Corequisite: A standard first-aid certificate.

PHYSICAL ACTIVITY 1805/2805/3805/4805

Special Activities

Credit hours: 1.5

Contact hours per week: 0-3-0

Physical activities selected by faculty and students.

PHYSICAL ACTIVITY 1905/2905/3905/4905

Studies in Physical Activity

Credit hours: 1.5

Contact hours per week: 0-3-0

Opportunity for an individual to study a physical activity in depth.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 1000

Wellness and Physical Activity

Credit hours: 3.0

Contact hours per week: 3-3-0

Physical, social and psychological aspects of personal wellness emphasizing involvement in physical activity.

PHYSICAL EDUCATION 2000

Foundations of Motor Skill Acquisition

Credit hours: 3.0

Contact hours per week: 1-2-0

Other hours: 0-0-20

Theoretical foundations of motor skill acquisition focusing on sociological, psychological, biomechanical and physiological factors common to motor skills and which contribute to or are barriers to skill acquisition.

PHYSICAL EDUCATION 2110

Biological and Physical Science Dimensions of Physical Activity Involvement

Credit hours: 3.0

Contact hours per week: 3-0-0

Other hours: 0-0-10

Anatomic, biomechanical and physiological aspects of human movement. Includes some irregularly scheduled lab experiences.

PHYSICAL EDUCATION 2120

Sociological and Psychological Dimensions of Physical Activity Involvement

Credit hours: 3.0

Contact hours per week: 3-0-0

Other hours: 0-0-10

Exploration of sociological and psychological dimensions of physical activity involvement related to groups and individuals. Critical analysis of the arguments regarding the effects of gender, race, class and age on performance and ability. Includes some irregularly scheduled lab experiences.

PHYSICAL EDUCATION 2130**Humanities Dimensions of Physical Activity Involvement***Credit hours: 3.0**Contact hours per week: 3-0-0**Other hours: 0-0-10*

Exploration of historical, philosophical and literary dimensions of physical activity involvement. Includes some irregularly scheduled lab experiences.

PHYSICAL EDUCATION 2200**Research Methodologies in Physical Activity Involvement***Credit hours: 3.0**Contact hours per week: 3-2-0*

Exploration of qualitative and quantitative research methods used in the study of sport and physical activity involvement.

Prerequisite: Physical Education 1000 and two of Physical Education 2110, 2120 and 2130.

PHYSICAL EDUCATION 2520**Contemporary Health Issues***Credit hours: 3.0**Contact hours per week: 3-0-0*

Personal and community health problems in the contemporary world.

PHYSICAL EDUCATION 2600**Functional Human Anatomy***Credit hours: 3.0**Contact hours per week: 3-2-0*

Skeletal, muscular, nervous, circulatory and other systems of the body.

Recommended background: Physical Education 2110 and Biology 1010 (Biology 1000 prior to 1996/1997).

PHYSICAL EDUCATION 2630**Growth and Development***Credit hours: 3.0**Contact hours per week: 3-2-0*

Basis for exercise derived from study of individual physical, social and psychological growth patterns and the physical and environmental factors affecting human development stages.

PHYSICAL EDUCATION 2640**History of Physical Education, Sport and Recreation***Credit hours: 3.0**Contact hours per week: 3-0-0*

From ancient times to the present with emphasis on the North American setting.

Recommended background: Physical Education 2130 and History 1000.

PHYSICAL EDUCATION 2810**Recreation in the Leisure Age***Credit hours: 3.0**Contact hours per week: 3-0-0*

Development and function of recreation and leisure in the Western world as influenced by social, religious, economic, political, ecological and technological factors.

PHYSICAL EDUCATION 2980**Coaching in Sport***Credit hours: 3.0**Contact hours per week: 3-0-0*

Coaching theory incorporating information relative to sport from biology, physiology, psychology and sociology; Theory Level I and II certification within the National Coaching Certification program.

PHYSICAL EDUCATION 3600**Physiology of Muscular Activity***Credit hours: 3.0**Contact hours per week: 3-2-0*

Physiological effects of muscular activity, physical conditioning and training; significance of these effects for health and for performance in activity programs.

Prerequisite: Physical Education 2110 and 2200.

Recommended background: Physical Education 2600 and Chemistry 2250.

PHYSICAL EDUCATION 3640**Culture and Physical Activity***Credit hours: 3.0**Contact hours per week: 3-0-0*

Sociological analysis of physical activity as a cultural form; social and cultural implications of physical activity, including gender development through sport, analysis of the bases of involvement; structure and delivery of sport, recreation and physical activity and current issues related to the socio-cultural aspects of sport and physical activity.

Recommended background: Physical Education 2120 and one course in either Anthropology or Sociology, preferably Anthropology 2510 or Sociology 1000.

PHYSICAL EDUCATION 3650**Biomechanics***Credit hours: 3.0**Contact hours per week: 3-2-0*

Complex movements, specialized skills and motor coordination in terms of mechanics of skeletal and muscular movements.

Prerequisite: Physical Education 2600.

Recommended background: Physical Education 2110 and Physics 1000.

Physical Education 3670 - Physical Education 4900

PHYSICAL EDUCATION 3670

Motor Skill Learning

Credit hours: 3.0

Contact hours per week: 3-2-0

Acquisition and improvement of gross motor skills based on an interplay of athlete-related and environment-facilitated conditions.

Prerequisite: Physical Education 2200.

PHYSICAL EDUCATION 3680

Sport Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Emphasis upon performance differences and performance manipulation as they can be traced to psychological constraints such as anxiety, imagery and mental rehearsal, motivation and feedback.

Prerequisite: Physical Education 2200 and Psychology 1000.

Recommended background: Physical Education 2120.

PHYSICAL EDUCATION 3740

Philosophy of Physical Activity

Credit hours: 3.0

Contact hours per week: 3-0-0

A critical examination of basic philosophic questions relevant to physical education, sport and recreation with special consideration for ethical issues.

Recommended background: Physical Education 2130.

PHYSICAL EDUCATION 3810

Community Recreation

Credit hours: 3.0

Contact hours per week: 3-0-0

Fundamental concepts, current developments, practices and problems and organizational patterns of public, private, industrial and commercial recreation in Canada.

Prerequisite: Physical Education 2810.

PHYSICAL EDUCATION 3986

Applied Studies - Coaching

Credit hours: 3.0

Contact hours per week: 0-0-0

Other hours: 0-0-130

Field work experience in coaching sports.

Prerequisite: Second-year standing (completion of a minimum of ten courses or 30.0 credit hours).

PHYSICAL EDUCATION 4620

Leadership and Management of Physical Education, Sport and Recreation

Credit hours: 3.0

Contact hours per week: 3-2-0

Function of organization, leadership and programs in physical education, sport and recreation.

Prerequisite: A 2000- or 3000-level Physical Education course.

Recommended background (one of): Management 3030, Political Science 3410, Psychology 2800 or Sociology 2600.

PHYSICAL EDUCATION 4630

Physical Education and Recreation for Special Populations

Credit hours: 3.0

Contact hours per week: 3-2-0

Theories of adaptive and developmental activities for differentially-abled persons.

Prerequisite: Open to Physical Education majors having completed a minimum of 20 semester courses (60.0 credit hours).

PHYSICAL EDUCATION 4650

Principles of Athletic Training

Credit hours: 3.0

Contact hours per week: 3-1-0

Principles of prevention, care, assessment and management of athletic injuries.

Prerequisite: Physical Education 2600.

Recommended background: Physical Education 3600 and 3650.

PHYSICAL EDUCATION 4700

Women and Sport

Credit hours: 3.0

Contact hours per week: 3-0-0

Critical analysis of socio-cultural influences and health parameters of sport/physical activity involvement of females across the life span. Areas studied include feminist and postmodern critiques of contemporary sport models, unique female physiological concerns, equity and future directions.

Prerequisite: Completion of a minimum of 20 semester courses (60.0 credit hours).

Recommended background: One of Anthropology 2600, Sociology 2410, or Women's Studies 2000.

PHYSICAL EDUCATION 4850

Special Topics

Credit hours: 3.0

Contact hours per week: 3-0-0

Advanced undergraduate seminar. Special topics selected by interested faculty and students.

Prerequisites and recommended backgrounds will be specified for individual topics courses.

PHYSICAL EDUCATION 4900

Seminar

Credit hours: 3.0

Contact hours per week: 3-0-0

Contemporary problems pertaining to athletics, recreation, comparative physical education, ethics, research, current developments and the place of physical education in the academic community.

Prerequisite: Open to Physical Education majors having completed a minimum of 20 semester courses (60.0 credit hours).

PHYSICS**PHYSICS 1000****Introduction to Physics I**

Credit hours: 3.0

Contact hours per week: 3-3-1

Calculus based introduction to mechanics. Concepts and problem-solving skills are emphasized. Material studied: translational, rotational and oscillatory motion; collisions; Newton's gravitation and central force motion; brief introduction to special relativity.

Recommended background: Physics 30 and Mathematics 30.

Note: *Credit for Physics 1000 and 1050 is not allowed.*

PHYSICS 1050**Introduction to Biophysics**

Credit hours: 3.0

Contact hours per week: 3-3-0

A non-calculus based introduction to biophysics, which emphasizes the application of physical principles to problems of biological significance. A selection of topics, including acoustics, vision, radiation biophysics, fluid properties and animal mechanics, will introduce important biophysical concepts.

Recommended background: Mathematics 30 and a physical science course at the 20-level or above.

Note: *Credit for Physics 1000 and 1050 is not allowed.*

PHYSICS 2000**Introduction to Physics II**

Credit hours: 3.0

Contact hours per week: 3-3-1

The second introductory calculus based physics course. Emphasis on concepts and problem-solving skills. Material studied: electricity and magnetism (main topic); optics, introduction to quantum mechanics, atomic and nuclear physics.

Recommended background: Physics 1000 or 1050, and Mathematics 1560.

PHYSICS 2020**Physics and Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

A course designed to foster an understanding of the way in which science and society interact. By using examples drawn from historical antecedents of modern physics and from modern physics, various aspects (cultural, technological, social and disciplinary) of the science-society interaction will be critically examined and discussed.

Recommended background: An introductory Science course at the 1000 level.

PHYSICS 2150**Wave Mechanics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Physics of waves, including free oscillations of systems with one and many degrees of freedom. Forced oscillations. Travelling waves. Modulations, pulses and wave packets. Origin of quantum mechanics. Wave properties of particles. The Schrödinger equation and solutions in one and three dimensions.

Prerequisite: Physics 2000.

Corequisite: Physics 2800.

PHYSICS 2600**Electricity and Magnetism**

Credit hours: 3.0

Contact hours per week: 3-0-0

The basic elements of electromagnetic theory are discussed. Areas studied include electrostatics, scalar potential, steady currents, electric and magnetic fields of moving charges as manifestations of relativity and charge invariance, electromagnetic induction and electric and magnetic fields in matter.

Prerequisites: Physics 2000.

Recommended background: Mathematics 1560 and 2560.

PHYSICS 2800**Methods in Mathematical Physics**

Credit hours: 3.0

Contact hours per week: 3-0-0

A course which provides the tools and develops the skills required to solve physical problems typical of those encountered at the first- and second-year level. Areas studied include: matrix theory and applications, ordinary differential equations, series solutions, Laplace transforms, vector analysis.

Prerequisites: Mathematics 1560 and 2560.

Recommended background: Mathematics 1410 (1450).

PHYSICS 2900**Studies in Experimental Physics (Series)**

Credit hours: 3.0

Contact hours per week: 3-3-0

Specific offerings will be announced prior to the semester. Experiments are selected from areas such as analog electronics, mechanics, acoustics, x-rays, electricity and magnetism, optics, thermometry and nuclear physics.

Prerequisites and recommended backgrounds will be specified for individual offerings.

Physics 3150 - Physics 4000

PHYSICS 3150 Quantum Mechanics I

Credit hours: 3.0

Contact hours per week: 3-0-0

The fundamentals of quantum mechanics, centered around the wave-mechanical description of Schrödinger. Material studied includes: quantum states and amplitudes, superposition and packet states, scattering and barrier penetration, angular momentum, the hydrogen atom, identical particles and atomic radiation.

Prerequisite: Physics 2150 and 2800.

PHYSICS 3200 Mechanics

Credit hours: 3.0

Contact hours per week: 3-0-0

Intermediate-level classical mechanics. Material studied: Newton's laws of motion and their applications, conservation laws, collisions, oscillators, rigid body dynamics, central forces, relativistic dynamics, introduction to Lagrangian and Hamiltonian methods.

Recommended background: Physics 2000 and 2800.

PHYSICS 3300 Structure of Matter

Credit hours: 3.0

Contact hours per week: 3-0-0

Phenomenological and microscopic description of matter in aggregate. Material studied: atomic spectra, effects of magnetic and electric fields, energy bands in solids; conductors, semiconductors, crystalline and non-crystalline dielectrics.

Recommended background: Physics 3150 and 3400.

PHYSICS 3400 Thermal and Statistical Physics

Credit hours: 3.0

Contact hours per week: 3-0-0

Phenomena of heat and properties of matter from a statistical point of view. Material studied will include: thermal equilibrium, processes and their reversibility, laws of thermodynamics and their microscopic basis, thermodynamic measurements, classical and quantum properties of matter and radiation.

Recommended background: Physics 2000 and 2800.

PHYSICS 3600 The Electromagnetic Interaction

Credit hours: 3.0

Contact hours per week: 3-0-0

Fundamental concepts of electromagnetic theory at an advanced level and some of their applications. Unity of electric and magnetic phenomena emphasized. Material studied: boundary value problems; energy density and energy flow; electromagnetism in relativistic notation; radiation; resonant cavities and waveguides.

Prerequisite: Physics 2600.

Recommended background: Physics 2000 and 2800.

PHYSICS 3650 Electromagnetic Radiation

Credit hours: 3.0

Contact hours per week: 3-2-0

Classical electromagnetic waves. Physical optics. Quantum optics. Experimental work includes: constructing optical systems, use of lasers in optical measurements, holography.

Recommended background: Physics 3600.

PHYSICS 3800 Methods of Theoretical Physics

Credit hours: 3.0

Contact hours per week: 3-0-0

Mathematical tools essential for advanced-level courses in classical and quantum mechanics are emphasized. Material studied includes: Fourier series and analysis, solution of partial differential equations, special and generalized functions and Green's functions.

Prerequisites: Physics 2800 and Mathematics 2570 and 2580.

Recommended background: Mathematics 4560.

PHYSICS 3850 Topics in Physics

Credit hours: 3.0

Contact hours per week: 3-0-0

Specific offerings will be announced prior to the semester. Possible topics include: classical wave motion in a range of physical systems, physics of elastic media, transport phenomena, spectroscopic techniques.

Prerequisites and recommended background will be specified for individual offerings.

PHYSICS 3900 Intermediate Experimental Physics (Series)

Credit hours: 3.0

Contact hours per week: 3-3-0

Specific offerings will be announced prior to the semester. Experiments are selected from areas such as digital electronics, solid state physics, laser physics, spectroscopy, atomic and nuclear physics.

Prerequisites and recommended background will be specified for individual offerings.

PHYSICS 4000 Advanced Studies in Physics (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Specific offerings will be announced prior to the semester. Subject material is chosen from areas such as relativity, astrophysics and current issues in physics.

Prerequisites and recommended background will be specified for individual offerings.

PHYSICS 4100**Nuclear Physics***Credit hours: 3.0**Contact hours per week: 3-0-0*

An introduction to the nucleus. Material studied: nuclear properties, radioactive decay, nuclear reactions and an introduction to elementary particle physics.

*Prerequisite: Physics 2150 and 3200.**Recommended background: Physics 3150.***PHYSICS 4150****Quantum Mechanics II***Credit hours: 3.0**Contact hours per week: 3-0-0*

Mathematical and conceptual foundation of quantum mechanics at an advanced level. Material studied: general formalism; quantum dynamics; angular momentum; symmetries; approximate methods; scattering theory; interpretation.

*Prerequisite: Physics 3150.**Recommended background: Physics 3800 and 4200.***PHYSICS 4200****Advanced Mechanics***Credit hours: 3.0**Contact hours per week: 3-0-0*

Hamilton's equations, canonical transformations, Lagrange and Poisson brackets, Hamilton-Jacobi equations, separation of variables, action angle variables, constants of motion, integrability, simple nonlinear Hamiltonian systems, chaotic motion.

*Prerequisite: Physics 3200 and 3800.***PHYSICS 4850****Topics in Physics***Credit hours: 3.0**Contact hours per week: 3-0-0*

Specific offerings will be announced prior to the semester. Possible topics include: elementary particle physics, non-linear dynamics, plasma physics, relativity, astrophysics.

*Prerequisites and recommended background will be specified for each offering.***POLITICAL SCIENCE****POLITICAL SCIENCE 1000****Introduction to Political Studies***Credit hours: 3.0**Contact hours per week: 3-0-0*

Basic concepts for political inquiry such as power, authority, state. Examination of governmental institutions and systems.

POLITICAL SCIENCE 2110**International Relations***Credit hours: 3.0**Contact hours per week: 3-0-0*

Relations among nations, covering such topics as foreign policies of major powers, nature and functions of international organizations, international law and contemporary world problems.

*Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.***POLITICAL SCIENCE 2210****Canadian Politics and Government***Credit hours: 3.0**Contact hours per week: 3-0-0*

Canadian political system, with special attention to political parties, the nature of federalism and functioning of the parliamentary system.

*Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science, or completion of seven courses (21.0 credit hours) in Arts and Science.***POLITICAL SCIENCE 2240****The Administration of Justice***Credit hours: 3.0**Contact hours per week: 3-0-0*

Function of law in a democratic society and underlying theories of jurisprudence. Organization of the Canadian judicial system, procedure in civil and criminal cases, preservation of law and order, and protection of civil rights.

*Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.***POLITICAL SCIENCE 2310****Comparative Political Studies***Credit hours: 3.0**Contact hours per week: 3-0-0*

Comparative study of power, authority, administration, law, leadership and participation in selected political systems.

*Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.***POLITICAL SCIENCE 2410****Public Administration***Credit hours: 3.0**Contact hours per week: 3-0-0*

Role of administration in modern government including problems in personnel administration, the budgetary process, administrative regulation and government organization.

Prerequisite: Political Science 1000 or a previous course in Political Science (3.0 credit hours), or completion of seven courses (21.0 credit hours) in Arts and Science.

Political Science 2510 - Political Science 3242

POLITICAL SCIENCE 2510

Modern Political Ideologies

Credit hours: 3.0

Contact hours per week: 3-0-0

Political "isms": their meaning, evolution and role in relation to politics.

Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.

POLITICAL SCIENCE 2610

Introductory Research Methods

Credit hours: 3.0

Contact hours per week: 3-0-0

Concepts and methods of political inquiry; organization, development and articulation in research papers.

Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.

POLITICAL SCIENCE 2710

Political Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

General public reaction and behaviour within the political world including: voting preferences, mass movement membership, acceptance and/or rejection of political policies and leaders, violence and non-violence, and concern and apathy.

Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.

POLITICAL SCIENCE 3001

Studies in Political Science (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Specific political issues depending upon student interest and available faculty.

Prerequisites and recommended backgrounds will be specified for individual offerings.

POLITICAL SCIENCE 3120

Canadian Foreign Policy

Credit hours: 3.0

Contact hours per week: 3-0-0

Process and institutions. Environmental, historical, social and economic influences on the process; external forces, including bilateral and multilateral commitments.

Prerequisite: Political Science 2110 or 2210.

POLITICAL SCIENCE 3150

International Politics and Foreign Policy

Credit hours: 3.0

Contact hours per week: 3-0-0

Systematic analysis of internal and external influences in the making of foreign policy, especially by major powers.

Prerequisite: Political Science 2110.

POLITICAL SCIENCE 3160

International Law and Organization

Credit hours: 3.0

Contact hours per week: 3-0-0

Development, structure, policies and problems. Accomplishments and limitations of universal and regional organizations and law.

Prerequisite: Political Science 2110.

POLITICAL SCIENCE 3210

Urban Government and Politics

Credit hours: 3.0

Contact hours per week: 3-0-0

Municipal policy-making and administrative decision-making, personnel, financial functions, legal powers, land use management, public participation and provincial-municipal relations.

Prerequisite: Political Science 2210.

POLITICAL SCIENCE 3230

Provincial Government and Politics

Credit hours: 3.0

Contact hours per week: 3-0-0

Comparative study of provincial cultures, structures, functions and politics with emphasis on federal-provincial and inter-provincial relations.

Prerequisite: Political Science 2210.

POLITICAL SCIENCE 3241 (3240)

Canadian Constitutional Law I: The Structures and Powers

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic principles of Canadian constitutional law. The concept and practice of judicial review. Constitutional provisions for legislative, executive and judicial institutions. Judicial independence. Basics and evolution of the constitutional division of powers. Aboriginal rights and First Nations. Evolution and process of constitutional amendment.

Prerequisite: Political Science 2210 or 2240.

POLITICAL SCIENCE 3242 (3240)

Canadian Constitutional Law II: The Charter

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic principles of Canadian constitutional law and the power of judicial review. The notion of civil liberties; civil liberties before and since the entrenchment of the Canadian Charter of Rights and Freedoms. Application and limits of the Charter. The notwithstanding clause. The evolution of judicial interpretation of the Charter.

Prerequisite: Political Science 2210 or 2240.

POLITICAL SCIENCE 3245**Women and the Law I**

Credit hours: 3.0

Contact hours per week: 3-0-0

Overview of political and historical developments in the laws affecting women, specifically in Canada; recent legal developments in the areas of sexuality, violence, and family law (marriage, property, custody of children, marital property).

Prerequisite: Political Science 1000, or 2210 or 2240.

Note: *Credit for Political Science 3245 and 3850 (Women and the Law I) is not allowed.*

POLITICAL SCIENCE 3250**Alberta Politics and Government**

Credit hours: 3.0

Contact hours per week: 3-0-0

Problems in Alberta provincial politics; the formal and informal institutions of the Provincial government.

Prerequisite: Political Science 2210.

POLITICAL SCIENCE 3260**Canadian Public Policy**

Credit hours: 3.0

Contact hours per week: 3-0-0

Factors and processes that enter into the making of Canadian public policy. Emphasis on specific policy areas which change periodically to take into account current government activities.

Prerequisite: Political Science 2210.

POLITICAL SCIENCE 3320**Western European Political Systems**

Credit hours: 3.0

Contact hours per week: 3-0-0

Comparative study of the political systems comprising the European community, notably Great Britain, France, West Germany, Italy and selected Scandinavian countries.

Prerequisite: Political Science 2310.

POLITICAL SCIENCE 3330**Russia and Environs**

Credit hours: 3.0

Contact hours per week: 3-0-0

The political institutions, processes and history of the successor structures to the U.S.S.R.

Prerequisite: Political Science 2310.

POLITICAL SCIENCE 3340**American Government**

Credit hours: 3.0

Contact hours per week: 3-0-0

Emphasis on American governmental institutions, political parties and behaviour and civil rights.

Prerequisite: Political Science 2310.

POLITICAL SCIENCE 3350**Government and Politics of South Asia**

Credit hours: 3.0

Contact hours per week: 3-0-0

Survey of current political situations in India, Pakistan and Bangladesh with emphasis on India. Impact of colonialism, economic planning and ethnic tensions on politics.

Prerequisite: Political Science 2310 or 2610.

POLITICAL SCIENCE 3360**Developing Nations**

Credit hours: 3.0

Contact hours per week: 3-0-0

Comparative study of political development and modernization in selected Afro-Asian countries, including general comparison with some Western political systems.

Prerequisite: Political Science 2310 or 2610.

POLITICAL SCIENCE 3370**African Politics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Emphasis on European imperialism/colonialism and the African response, African nationalism and the European imperial response and modern African politics and obstacles to nation-building. Selected case studies of individual African political systems included with an in-depth look at southern Africa.

Prerequisite: Political Science 2310.

POLITICAL SCIENCE 3380**Women and Politics**

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to the link between feminist theory and political issues. Discussion and critique of contemporary feminist theoretical approaches. Historical survey of women and politics in Canada, including issues such as abortion, women and media, feminist political activism, racism and the backlash to feminism.

Prerequisite: Political Science 2310.

POLITICAL SCIENCE 3410/MANAGEMENT 3030**Organizational Behaviour, Theory and Design**

Credit hours: 3.0

Contact hours per week: 3-0-0

Application of knowledge of organizational theory and behaviour to organizational analysis and design. Planning and implementation of design strategies in response to change in both internal and external circumstances.

Prerequisite: Political Science 2410 or Management 2000.

Political Science 3420/Management 3050 - Political Science 4620

POLITICAL SCIENCE 3420/MANAGEMENT 3050 Human Resource Management

Credit hours: 3.0

Contact hours per week: 3-0-0

Job analysis, recruitment and selection; training; performance appraisal; compensation; discipline; introduction to the legal environment.

Recommended background: Political Science 3410 or Management 3030.

POLITICAL SCIENCE 3430 Comparative Public Administration

Credit hours: 3.0

Contact hours per week: 3-0-0

Comparison of systems of public administration in selected developed and developing nations.

Prerequisite: Political Science 2410.

POLITICAL SCIENCE 3510 History of Political Thought

Credit hours: 3.0

Contact hours per week: 3-0-0

Ancient, medieval and early modern political thought, Plato to Machiavelli.

Prerequisite: Political Science 2510.

POLITICAL SCIENCE 3520 Socialism and Communism

Credit hours: 3.0

Contact hours per week: 3-0-0

Intellectual origins and development of the major branches of the socialist movement from the French Revolution to the present day. Topics include utopian socialism, Marxism, democratic socialism, Leninism, Stalinism, Fabianism and anarchism.

Prerequisite: Political Science 2510.

POLITICAL SCIENCE 3710 Public Opinion and Propaganda

Credit hours: 3.0

Contact hours per week: 3-0-0

Relationship of public opinion and private attitudes to public policy and political institutions. Techniques used by political parties and pressure groups in communicating their message and the conditions of effective and ineffective communication.

Prerequisite: Political Science 2710 or completion of three courses (9.0 credit hours) in Political Science.

POLITICAL SCIENCE 3730 Mass Media and Politics

Credit hours: 3.0

Contact hours per week: 3-0-0

Mass media in politics, government, public policy-making in Canada and in other political systems. Media theories, uses of the media and communication behaviour informing political processes.

Prerequisite: Political Science 2210.

POLITICAL SCIENCE 3850 Topics in Political Science

Credit hours: 3.0

Contact hours per week: 3-0-0

Topics offered according to student and instructor interest. Contact the Department for specific topics offered.

Prerequisites and recommended backgrounds will be specified for individual offerings.

POLITICAL SCIENCE 4245 Women and the Law II

Credit hours: 3.0

Contact hours per week: 3-0-0

Seminar course; concentration on recent legal developments affecting women in the areas of reproductive technology, sexual assault, taxation and the changing workplace.

Prerequisites: Political Science 3245.

Note: *Credit for Political Science 4245 and 4850 (Women and the Law II) is not allowed.*

POLITICAL SCIENCE 4310 The Politics of Human Rights

Credit hours: 3.0

Contact hours per week: 3-0-0

Human rights within the national and international setting.

Prerequisite: At least three courses (9.0 credit hours) in Political Science at the 3000 level.

POLITICAL SCIENCE 4530 Democratic Political Theory

Credit hours: 3.0

Contact hours per week: 3-0-0

Key concepts of normative and empirical democratic theories, including liberty, equality, consent, authority, power, elites and extralegal political activity.

Prerequisite: Political Science 2510 and at least three other Political Science courses (9.0 credit hours) at the 3000 level.

POLITICAL SCIENCE 4610 Scope and Methods

Credit hours: 3.0

Contact hours per week: 3-0-0

Theoretical and practical problems of research methodology. Basic research methods, empirically-oriented models and theories, quantitative measures and the analysis of data.

Prerequisite: Three Political Science courses (9.0 credit hours) at the 3000 level.

POLITICAL SCIENCE 4620 Department Seminar (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected issues in Political Science.

Prerequisite: Political Science 1000 or a previous course (3.0 credit hours) in Political Science.

Recommended background: Third- or fourth-year standing (a minimum of 60.0 credit hours).

POLITICAL SCIENCE 4710

Canadian Political Parties

Credit hours: 3.0

Contact hours per week: 3-0-0

Structure and functions of national and provincial parties, their impact on political institutions and electoral behaviour.

Prerequisite: Political Science 2210 or 2710 and at least one of 3210, 3230 or 3260.

POLITICAL SCIENCE 4720

New Social Movements

Credit hours: 3.0

Contact hours per week: 3-0-0

The rise of new social movements, responding to environmental, women's, aboriginal, peace, consumer and human rights issues. Theories of mobilization, ideological impetuses, organizational structures, impact of new social movements on the political policy process.

Prerequisite: Third- or fourth-year standing in Arts and Science (completion of a minimum of 20 courses or 60.0 credit hours).

PSYCHOLOGY

PSYCHOLOGY 1000

Basic Concepts of Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

The subject matter and methods of psychology with emphasis on the neurological, comparative, cognitive and social foundations of behaviour.

PSYCHOLOGY 2010

Research Methods in Human Experimental Psychology

Credit hours: 3.0

Contact hours per week: 3-1-0

Basic techniques, designs and an introduction to data analysis in human experimental psychology with an emphasis on laboratory experience. Activities include reading empirical research, designing, researching and writing an empirical paper, and ethical considerations of the treatment of research participants.

Prerequisite: A previous course (3.0 credit hours) in Psychology.

PSYCHOLOGY 2320

Cognitive Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to cognitive psychology, including human learning and memory, perception, language, concept formation, thinking and problem solving.

Prerequisite: A previous course (3.0 credit hours) in Psychology.

PSYCHOLOGY 2600

Brain and Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

Theories and research on brain function and its relation to behaviour in humans and other animals.

Prerequisite: Psychology 1000 or Biology 1010 (Biology 1000 prior to 1996/1997).

PSYCHOLOGY 2700

Introduction to Animal Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

An integration of the fundamental concepts developed in the fields of comparative psychology and ethology. The interaction of genetic and experiential factors in the development of behaviours such as communication, aggression, pair bonding and social organization in selected animal groups, including humans will be emphasized.

Prerequisite: Psychology 1000 or Biology 1020.

PSYCHOLOGY 2800

Social Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic concepts of social psychology including socialization, social influence, group dynamics, attitudes and impression formation.

Prerequisite: A previous course (3.0 credit hours) in Psychology.

PSYCHOLOGY 3000

Issues in Psychology (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues to be discussed are announced during the semester preceding the one in which the seminars are offered.

Prerequisite: A previous course (3.0 credit hours) in Psychology. Additional prerequisites and recommended backgrounds will be specified for individual offerings.

Psychology 3010 - Psychology 3605

PSYCHOLOGY 3010 (2400) **Introduction to Statistics in Psychological Research**

Credit hours: 3.0

Contact hours per week: 3-0-1

Basic descriptive and inferential statistics and techniques used in psychological research.

Prerequisite: Any 2000-level Psychology course (3.0 credit hours).

Recommended background: Math 30 or its equivalent is highly recommended.

Note: *Credit will not be granted for Psychology 3010 if Psychology 2000 was taken prior to the 1986-87 academic year.*

Credit for Psychology 3010 (2400) and Sociology 2130 is not allowed.

PSYCHOLOGY 3110 (2100) **Child Development**

Credit hours: 3.0

Contact hours per week: 3-0-0

Biological and learned bases of the growth and development of human behaviour, including motor abilities, motivation, perception, language and intelligence.

Prerequisite: Any 2000-level course (3.0 credit hours) in Psychology.

PSYCHOLOGY 3120 (3820) **Psychology of Aging**

Credit hours: 3.0

Contact hours per week: 3-0-0

Current theories of adult development and aging; the effects of aging on sensation and perception, learning, personality and social adjustment.

Prerequisite: Psychology 2010 and 3110 (2100).

PSYCHOLOGY 3200 **Sensory Systems and Perception**

Credit hours: 3.0

Contact hours per week: 3-0-0

Other contact hours: 0-15-0

Sensory and cognitive basis of human perceptual abilities; including vision, audition, taste, olfaction and skin and muscle senses.

Prerequisite: Psychology 2320 and 2600.

PSYCHOLOGY 3320 **Advanced Cognition**

Credit hours: 3.0

Contact hours per week: 3-0-0

Contemporary research, theory and controversy in the area of basic cognitive processes.

Prerequisite: Psychology 2010 and 2320.

PSYCHOLOGY 3330 (4810) **Social Cognition**

Credit hours: 3.0

Contact hours per week: 3-0-0

Advanced theory and research emphasizing a cognitive approach to social psychological phenomena.

Prerequisite: Psychology 2010 and 2320.

Recommended background: Psychology 2800.

PSYCHOLOGY 3340 **Applied Cognition**

Credit hours: 3.0

Contact hours per week: 3-0-1

Other contact hours: 0-0-10

Contemporary applications of cognitive psychology in legal, educational, societal and everyday contexts.

Prerequisite: Psychology 2010 and 2320.

PSYCHOLOGY 3500 **Abnormal Psychology**

Credit hours: 3.0

Contact hours per week: 3-0-0

Approaches to the diagnosis and treatment of various forms of mental illness.

Prerequisite: Any 2000-level Psychology course (3.0 credit hours).

Recommended background: Psychology 2320, 2600, 2700 and 2800.

PSYCHOLOGY 3510 **Psychological Measurement**

Credit hours: 3.0

Contact hours per week: 3-1-0

Concepts of psychological testing. Subjects include: test construction, test theory, scaling of attitudes, consideration of intelligence, personality, aptitude, interest and vocational testing.

Prerequisite: Psychology 2010 and 3010 (2400).

PSYCHOLOGY 3600 **Introduction to Neuroscience**

Credit hours: 3.0

Contact hours per week: 3-0-0

The basic principles of brain structure and function.

Prerequisite: Psychology 2600 or Biology 2000.

PSYCHOLOGY 3605 **Research Methods in Neuroscience**

Credit hours: 3.0

Contact hours per week: 0-3-0

Other contact hours: 0-0-25

An introduction to the techniques and methods used in modern neuroscience research.

Prerequisite: Psychology 2600 or Biology 2000.

Note: *Students who wish to pursue graduate studies in neuroscience should take Psychology 3605.*

PSYCHOLOGY 3610
Human Neuropsychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Theories and research on human brain function and the diagnosis of brain damage in humans. Study of brain asymmetry and effect of neurological disorders on complex psychological functions such as language, perception, memory and personality.

Prerequisite: Psychology 2600.

PSYCHOLOGY 3640
Brain Plasticity and Memory

Credit hours: 3.0

Contact hours per week: 3-0-0

Molecular and morphological bases of experience-induced changes in the brain.

Prerequisite: Psychology 2600.

PSYCHOLOGY 3650
Hormones, Drugs and Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

Theories and research concerned with the action of neurochemical systems on brain and behaviour in humans and other animals.

Prerequisite: Psychology 2600.

Recommended background: Psychology 2700.

PSYCHOLOGY 3660
The Psychobiology of Behavioural Development

Credit hours: 3.0

Contact hours per week: 3-0-0

The experiential, physiological and ecological factors influencing behavioural development will be examined. Topics include: prenatal behaviour, effects of prenatal exposure to hormones, learning, motivation and play.

Prerequisite: Psychology 2600 and 2700.

Recommended background: One of Psychology 3600 or 3700.

PSYCHOLOGY 3670 (3601)
Developmental Neurobiology

Credit hours: 3.0

Contact hours per week: 3-0-0

The cellular and molecular basis of nervous system development and developmental brain disorders.

Prerequisite: Psychology 2600 or Biology 2000.

PSYCHOLOGY 3690
Concepts in Neuroscience

Credit hours: 3.0

Contact hours per week: 3-0-0

Consideration of new developments and trends in theory, methods and research in neuroscience.

Prerequisite: Psychology 2600.

PSYCHOLOGY 3700
Research Methods in Animal Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

Other contact hours: 0-0-20

Topics include methods of experimental control, between and within subject designs and analyses, small-n designs and ethical concerns in the use of animals for research. Emphasis on the performance of laboratory and field studies, reading and writing of research reports and data interpretation. Participation in all-day field trips on three weekends is required.

Prerequisite: Psychology 2700.

Recommended background: Psychology 3010 (2400).

PSYCHOLOGY 3710
Neuroethology

Credit hours: 3.0

Contact hours per week: 3-0-0

An introduction to research on neural mechanisms underlying animals' behaviour. A basic neuroscience background is assumed. Selected topics are considered in case history style in which neural analysis has been carried out to understand the animal's natural behaviour. Topics include: sensory systems, sensory processing, predation, predator avoidance, migration and spatial behaviour, communication, learning and memory.

Prerequisite: Psychology 2600 and 3700.

PSYCHOLOGY 3720 (2300)

Learning

Credit hours: 3.0

Contact hours per week: 3-0-0

Basic principles underlying behavioural changes resulting from experience in all animals, including humans. Includes topics such as classical and operant conditioning, concept formation, biological constraints on learning and neural correlates of learned behaviour.

Prerequisite: Any 2000-level Psychology course (3.0 credit hours).

PSYCHOLOGY 3730 (3630)

Sex and Human Ethology

Credit hours: 3.0

Contact hours per week: 3-0-0

Human sexual psychology will be examined in the context of the evolution and development of sexual behaviour. In addition, the connections between sexual behaviour and other features of human behaviour (e.g., aggression, communication) will be explored.

Prerequisite: Psychology 2700 and one other 2000-level Psychology course (3.0 credit hours).

Psychology 3740 - Psychology 4600

PSYCHOLOGY 3740

Primate Behaviour

Credit hours: 3.0

Contact hours per week: 3-0-0

A comparative analysis of behaviour in different primate families. Topics such as social organization, tool use, communication, individual interactions and evolutionary history of major groups will be discussed.

Prerequisite: Psychology 2700 and one of Psychology 2010 or 3700.

PSYCHOLOGY 3750

Concepts in Comparative Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Selected topics in the theory and practice of comparative psychology will be discussed.

Prerequisite: Psychology 2700.

PSYCHOLOGY 3800

Theories in Personality and Social Psychology

Credit hours: 3.0

Contact hours per week: 3-0-0

Contemporary theory and research in personality and social psychology.

Prerequisite: Psychology 2010 and 2800.

Note: *Credit will not be granted for Psychology 2500 and 3800.*

PSYCHOLOGY 3810

Environmental Psychology

Credit hours: 3.0

Contact hours per week: 3-1-0

The relationships of natural and constructed environments to human behaviour and experience. Perception of the environment, effects of noise, temperature, wind and air pollution on behaviour and experience, personal space, territoriality, crowding, environmental design, attitudes toward the environment.

Prerequisite: Psychology 2010, 2800 and 3010 (2400).

PSYCHOLOGY 3830

The Psychology of Violence

Credit hours: 3.0

Contact hours per week: 3-1-0

Empirical studies on individual and group violence. Theoretical aspects of aggression, learning and contagion are considered in relation to riots, panics, crowd control, terrorism and interpersonal violence.

Prerequisite: Psychology 2010, 2800 and 3010 (2400).

PSYCHOLOGY 3860

Psychology of Sport

Credit hours: 3.0

Contact hours per week: 3-0-1

The application of social-psychological theory to sport. Topics include motivation, personality, competition, social influences upon

performance, group processes, leadership, interpersonal aggression and collective behaviour.

Prerequisite: Psychology 2010 and 2800.

PSYCHOLOGY 3900

Community Psychology

Credit hours: 3.0

Contact hours per week: 1-0-0

Other contact hours: 0-0-50

The functioning of community service agencies, in conjunction with field experience in applied work settings. Seminar course.

Prerequisite: Psychology 2010.

PSYCHOLOGY 4000

Issues in Psychology (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues to be discussed are announced during the semester preceding the one in which the seminars are offered.

Prerequisites and recommended backgrounds will be specified for individual offerings.

PSYCHOLOGY 4010 (3400)

Advanced Research Design and Data Analysis

Credit hours: 3.0

Contact hours per week: 3-0-1

Other contact hours: 0-0-25

Advanced discussion of research design and data analysis with emphasis on sophisticated research designs, high-level statistical computer packages and current controversies in the area.

Prerequisite: Psychology 3010 (2400).

PSYCHOLOGY 4320

Cognitive Research

Credit hours: 3.0

Contact hours per week: 3-0-0

Other contact hours: 0-0-25

Laboratory course involving individual research projects on topics within contemporary cognitive psychology.

Prerequisite: Psychology 2010, 3010 (2400) and one of Psychology 3200, 3320, 3330 (4810) or 3340.

PSYCHOLOGY 4600

Research in Behavioural Neuroscience

Credit hours: 3.0

Contact hours per week: 3-0-0

Other contact hours: 0-0-25

Advanced theories and research in the organization and function of nervous systems. Topics include the contribution of neural organization to behaviour at the cellular, anatomical, chemical, physiological, pharmacological, psychiatric and psychological levels.

Prerequisite: One of Psychology 3010 (2400) or Statistics 1770, and one of Psychology 3600 or 3605.

PSYCHOLOGY 4700**Advanced Research in Animal Behaviour**

Credit hours: 3.0

Contact hours per week: 3-0-0

Other contact hours: 0-0-25

Seminar discussion of contentious work in animal behaviour. Individual research projects of participants will also be presented and discussed.

Prerequisite: Psychology 3010 (2400) and 3700.

PSYCHOLOGY 4800**Experimental Social Psychology**

Credit hours: 3.0

Contact hours per week: 3-0-0

Other hours: 0-0-25

Experiments on attitudes, conformity, interpersonal perception and evaluation research from the perspectives of personality and social psychology.

Prerequisite: Psychology 3010 (2400) and 3800.

RELIGIOUS STUDIES**RELIGIOUS STUDIES 1000****Introduction to World Religions**

Credit hours: 3.0

Contact hours per week: 3-0-0

Structure, belief and practices of Eastern and Western religious traditions.

RELIGIOUS STUDIES 2020**Ancient Religions and Mythology**

Credit hours: 3.0

Contact hours per week: 3-0-0

Myths of the Sumerians, Babylonians, Egyptians, Greeks and Romans; genesis of ancient religions; relationship of myth and religion; principal mystery religions.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 2100**The Hindu Tradition**

Credit hours: 3.0

Contact hours per week: 3-0-0

Thought and practices of classical Hinduism; reform and sectarian movements; significant thinkers in modern Hinduism.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 2110**Asian Philosophy**

Credit hours: 3.0

Contact hours per week: 3-0-0

An introduction to the principal schools, thinkers and streams of thought in the philosophical traditions of South and East Asian religions.

RELIGIOUS STUDIES 2200**The Buddhist Tradition**

Credit hours: 3.0

Contact hours per week: 3-0-0

Thought and practice of Theravada and Mahayana Buddhism.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 2300**East Asian Religions**

Credit hours: 3.0

Contact hours per week: 3-0-0

Religious thought and practices of China and Japan, including Taoism, Confucianism, Shinto and East Asian Buddhism.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 2500**Christianity**

Credit hours: 3.0

Contact hours per week: 3-0-0

A survey of the development of Christianity from its beginning to the present, with attention to its beliefs and practices, and its role in Western society.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 2600**Islam**

Credit hours: 3.0

Contact hours per week: 3-0-0

Historical development of Islam from the pre-Islamic period to and including the Ottoman Empire, the Qur'an, beliefs and practices of Islam.

Prerequisite: Religious Studies 1000 or completion of four courses (12.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 3000**Studies in Religious Traditions (Series)**

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues and aspects of various religious traditions.

Prerequisites and recommended backgrounds will be specified for individual offerings.

Religious Studies 3010 - Science 1000

RELIGIOUS STUDIES 3010

Religion and Society

Credit hours: 3.0

Contact hours per week: 3-0-0

Religious responses to social issues such as abortion, euthanasia, war, sexuality, racism.

Prerequisite: Religious Studies 1000 or completion of seven courses (21.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 3020

Women and World Religions

Credit hours: 3.0

Contact hours per week: 3-0-0

A socio-historical exploration of the image of women portrayed in world religions and the realities of their social experience. Issues such as sexuality, family, education, politico-economic power will be considered.

Prerequisite: Religious Studies 1000 or completion of seven courses (21.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 3100

Studies in Indian Religion (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues related to the major religions of India.

Prerequisite: Religious Studies 2100 or 2200.

RELIGIOUS STUDIES 3300

Studies in East Asian Religions (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Issues related to the major religions of China, Korea and Japan.

Prerequisite: Religious Studies 2300.

RELIGIOUS STUDIES 3510

The Early Church

Credit hours: 3.0

Contact hours per week: 3-0-0

A study in the development of the Early Church from the beginning of the Second Century to the end of the Sixth Century, with special attention to early Christian beliefs and practices, and the Church's relationship to the political, cultural and religious environment of the Roman Empire.

Prerequisite: Religious Studies 2500 or History 1000, or a previous course in History (3.0 credit hours).

RELIGIOUS STUDIES 3550

Religion in North America

Credit hours: 3.0

Contact hours per week: 3-0-0

History and development of religion in a North American context; church, denomination, sect and cult in Canadian and American culture.

Prerequisite: Religious Studies 1000 or completion of seven courses (21.0 credit hours) in Arts and Science.

RELIGIOUS STUDIES 3560

Mormon Society and Culture

Credit hours: 3.0

Contact hours per week: 3-0-0

Past and present forms of Mormonism, focusing on ideology and ritual, the structure of the Church, property and economy, the family and kinship, relations with the larger society and with the state.

Prerequisite: A previous course (3.0 credit hours) in Religious Studies.

RELIGIOUS STUDIES 4000

Seminars in Religious Studies (Series)

Credit hours: 3.0

Contact hours per week: 3-0-0

Seminars in selected areas of Religious Studies.

Prerequisites and recommended backgrounds will be specified for individual offerings.

RELIGIOUS STUDIES 4001

Concepts and Methods in the Study of Religion

Credit hours: 3.0

Contact hours per week: 3-0-0

Examination and critique of the basic concepts and methodological approaches in the academic study of religion.

Prerequisite: At least one course (3.0 credit hours) in Western religion and one course (3.0 credit hours) in Eastern religion.

SCIENCE

SCIENCE 1000

Great Ideas: Life and Matter in the Universe

Credit hours: 3.0

Contact hours per week: 2-1-1

The lecture content will range broadly over the Sciences, emphasizing basic knowledge as well as the connection among disciplines. Augmented by seminar and lab experiences, and learning skills labs.

SOCIOLOGY**SOCIOLOGY 1000****Basic Concepts in Sociology**

Credit hours: 3.0

Contact hours per week: 3-0-0

Human social behaviour, the processes and patterns of group interaction and group influence on individual behaviour. Areas of sociological concern such as social organization, social stratification, ethnic relations and family interaction introduce some of the major concepts, theories and procedures of sociological inquiry.

SOCIOLOGY 2010**Canadian Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

The changing structure of Canadian Society and its current social features.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2020**Social Problems**

Credit hours: 3.0

Contact hours per week: 3-0-0

Processes by which social conditions come to be defined as problems, the consequences of these social problems for society and the nature of social reaction.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2100**Research Methodology**

Credit hours: 3.0

Contact hours per week: 3-0-0

Introduction to the philosophy of social scientific investigation; concepts and methods of qualitative and quantitative research.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2130**Social Statistics**

Credit hours: 3.0

Contact hours per week: 3-0-0

The nature of social data, probability, sampling, co-variation, basic descriptive and inferential techniques, computer analysis.

Prerequisite: Sociology 1000.

Recommended background: Mathematics 30 or its equivalent.

Note: Credit for Sociology 2130 and Psychology 3010 (2400) is not allowed.

SOCIOLOGY 2200**Classical Sociological Theory**

Credit hours: 3.0

Contact hours per week: 3-0-0

Sociological theory of the 19th and early 20th Century with special reference to Marx, Weber and Durkheim.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2210**Contemporary Sociological Theory**

Credit hours: 3.0

Contact hours per week: 3-0-0

Sociological theory from the early 20th Century to the present.

Prerequisite: Sociology 2200.

SOCIOLOGY 2410**Women, Men and Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

Social construction of gender. Comparative and historical perspectives on family and occupational roles. Position of women in contemporary Canadian society.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2440**Industrialization and Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

Technological change and its social impact on managers, owners and workers, particularly within capitalism.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2500**Deviance, Conformity and Social Control**

Credit hours: 3.0

Contact hours per week: 3-0-0

Normative processes by which individuals and groups become labelled as deviant, and the consequences of such social definitions; social factors that influence conformity and individual variation.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2600**The Individual and Society**

Credit hours: 3.0

Contact hours per week: 3-0-0

Symbolic interaction and role theories are used to understand the interrelationships between the individual and society; the central importance of symbols in the development of human forms of social relations.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

Sociology 2610 - Sociology 3370

SOCIOLOGY 2610

Socialization

Credit hours: 3.0

Contact hours per week: 3-0-0

The process by which persons, throughout the life course, become members of and participants in society and its institutions: models and theories, social significance and consequences.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 2810

Social Stratification

Credit hours: 3.0

Contact hours per week: 3-0-0

Distribution of power, prestige and privilege and their structural manifestation in status groups, classes, elites.

Prerequisite: Sociology 1000 or a previous course (3.0 credit hours) in Sociology.

SOCIOLOGY 3050

Minority Group Relations

Credit hours: 3.0

Contact hours per week: 3-0-0

Majority-minority relationships relative to prejudice, discrimination, assimilation, power and prestige; social structural patterns within minority groups.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

Recommended background: Sociology 2010 and 2020.

SOCIOLOGY 3110

Survey Research

Credit hours: 3.0

Contact hours per week: 3-0-0

Interviews and questionnaires in data collection, quantitative data analysis, statistical analysis using computer techniques.

Prerequisite: Sociology 2100.

SOCIOLOGY 3120

Qualitative Research Methods

Credit hours: 3.0

Contact hours per week: 3-0-0

Techniques in qualitative data collection and analysis; interviews, participant observation and unobtrusive methods.

Prerequisite: Sociology 2100.

SOCIOLOGY 3310

The Family

Credit hours: 3.0

Contact hours per week: 3-0-0

Functions of the family as a social institution. Developmental stages in family life. The changing nature of family and its relationships with

society. Changing role relationship involved in family interactions, marital stability, adjustment and breakdown.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3320

Sociology of Education

Credit hours: 3.0

Contact hours per week: 3-0-0

Social variables, external and internal to the school social system, which influence students' aspirations, expectations and achievements.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3330

Sociology of Religion

Credit hours: 3.0

Contact hours per week: 3-0-0

Religion as a cultural and social phenomenon; religious experience and its institutional expression.

Prerequisite: A previous course (3.0 credit hours) in Sociology or Religious Studies at the 2000 level.

SOCIOLOGY 3340

Medical Sociology

Credit hours: 3.0

Contact hours per week: 3-0-0

Socio-cultural factors related to health and illness; models of prevention, treatment and rehabilitation in such areas as mental illness and suicide.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

Recommended background: Sociology 2010 and 2020.

SOCIOLOGY 3360

Political Sociology

Credit hours: 3.0

Contact hours per week: 3-0-0

Processes by which organizations influence public policy.

Prerequisite: Sociology 2200.

SOCIOLOGY 3370

Sociology of Aging

Credit hours: 3.0

Contact hours per week: 3-0-0

Social consequences of growing old. Changes in roles and accommodation to them; reactions of society to those growing old, relationship of age and social institutions.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3380
Sociology of the Arts

Credit hours: 3.0
Contact hours per week: 3-0-0

The pervasive social roles of the fine arts in society, interrelationship with other social institutions; relationships among artists, critics, patrons and publics; the ways in which the creative imagination of the artist is shaped by cultural traditions and social arrangements; the social structure of artistic organizations.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3390
Sociology of Mass Communication

Credit hours: 3.0
Contact hours per week: 3-0-0

The social impact of mass communications (newspapers, radio, film, television, etc.) as well as the social forces and institutions that affect the mass communications media; social organizations of the mass communications media.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3410
Community and Urbanization

Credit hours: 3.0
Contact hours per week: 3-0-0

The community as a form of social organization. Selected theories and methods of research and analysis as they apply to the community. Urbanization and the changing nature of community, community processes, community problems.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3430
Sociology of Development and Underdevelopment

Credit hours: 3.0
Contact hours per week: 3-0-0

Causes and consequences of industrialization and modernization in developing areas. Issues in the sociology of development and underdevelopment.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3440
Collective Action and Social Movements

Credit hours: 3.0
Contact hours per week: 3-0-0

Socially-shared activities and beliefs directed toward change in, or rejection of the social order: social structural sources of protest, reform and revolt; development of collective meanings, ideology, myth and belief.

Prerequisite: A previous course (3.0 credit hours) in Sociology at the 2000 level.

SOCIOLOGY 3510
Crime and Delinquency

Credit hours: 3.0
Contact hours per week: 3-0-0

Criminal behaviour, its incidence and distribution in Canada, law enforcement and judicial processes.

Prerequisite: Sociology 2500.

SOCIOLOGY 3710
Sociology of Leisure

Credit hours: 3.0
Contact hours per week: 3-0-0

The social significance of leisure, with special reference to its institutionalized settings, its relation to work and to theories accounting for its contemporary forms.

Prerequisite: Sociology 2200.

SOCIOLOGY 3850
Topics in Sociology

Credit hours: 3.0
Contact hours per week: 3-0-0

Topics to be announced.

Prerequisites and recommended backgrounds will be specified for individual topics courses.

SOCIOLOGY 4200
Seminar in Classical Sociological Theory

Credit hours: 3.0
Contact hours per week: 3-0-0

Examination and critique of selected works in classical sociological theory. Topics to be announced the preceding semester.

Prerequisite: Sociology 2200.

SOCIOLOGY 4210
Seminar in Contemporary Sociological Theory

Credit hours: 3.0
Contact hours per week: 3-0-0

Examination and critique of selected works in contemporary sociological theory. Topics to be announced the preceding semester.

Prerequisite: Sociology 2210.

SOCIOLOGY 4850
Topics Seminar in Sociology

Credit hours: 3.0
Contact hours per week: 3-0-0

Topics to be announced.

Prerequisites and recommended backgrounds will be specified for individual topics courses.

SPANISH

Note: Spanish courses are offered by the Department of Modern Languages.

SPANISH 1000 Beginners' Spanish I

Credit hours: 3.0

Contact hours per week: 3-2-0

Fundamentals of spoken and written Spanish. Use of the language laboratory.

Note: For students with little or no knowledge of Spanish. Mandatory placement test for all registrants.

May not be taken for credit by students with Spanish 30.

SPANISH 1100 Beginners' Spanish II

Credit hours: 3.0

Contact hours per week: 3-2-0

Continuation of Spanish 1000.

Prerequisite: Spanish 1000, or Spanish 10 or 20 or equivalent, and a satisfactory grade in the mandatory placement test.

Note: *May not be taken for credit by students with Spanish 30.*

SPANISH 1500 Language I

Credit hours: 3.0

Contact hours per week: 3-1-0

Development of language skills: oral expression, listening comprehension, reading and writing. Use of the language laboratory.

Prerequisite: Spanish 30 or 31, or Spanish 1100 or equivalent, and a satisfactory grade in the mandatory placement test.

SPANISH 2000 Language II

Credit hours: 3.0

Contact hours per week: 3-0-0

The finer points of grammar; refinement of writing style. Further training in the skills of speaking, reading and listening comprehension.

Prerequisite: Spanish 1500.

SPANISH 2200 Culture and Civilization I

Credit hours: 3.0

Contact hours per week: 3-0-0

Aspects of Spanish and Spanish American culture and civilization. Use of films, tapes and texts. Oral and written Spanish.

Prerequisite: Spanish 1500.

SPANISH 2300 Introduction to Spanish Literature

Credit hours: 3.0

Contact hours per week: 3-0-0

Improvement of reading skills in the Spanish language. Appreciation and understanding of Spanish literature; its relation to life.

Prerequisite: Spanish 1500.

STATISTICS

Note: Statistics courses are offered by the Department of Mathematics and Computer Science.

STATISTICS 1770 Introduction to Probability and Statistics

Credit hours: 3.0

Contact hours per week: 3-0-1

Descriptive statistics and graphical representation. Measure of central tendency and dispersion. Elementary probability. Discrete and continuous random variables. Expectation. Binomial, normal and Student's t-distribution. Large and small sample inference and estimation. Central Limit Theorem.

Prerequisite: Mathematics 30 or 33.

STATISTICS 2780 Statistical Inference

Credit hours: 3.0

Contact hours per week: 3-0-1

Hypothesis testing. Comparison of variances. Chi-square distribution. Contingency tables. Elementary design of experiments. Random sampling. Analysis of variance. Regression and correlation. Examples to illustrate the theory are drawn from a wide variety of fields.

Prerequisite: Statistics 1770.

Note: *Credit for Statistics 2780 and Economics 2900 is not allowed.*

STATISTICS 3850 Topics in Statistics

Credit hours: 3.0

Contact hours per week: 3-0-0

Note: *Consult with the Department for currently offered topics and prerequisites.*

STATISTICS 4850 Topics in Statistics

Credit hours: 3.0

Contact hours per week: 3-0-0

Note: *Consult with the Department for currently offered topics and prerequisites.*

WOMEN'S STUDIES**WOMEN'S STUDIES 2000****Issues in Women's Studies**

Credit hours: 3.0

Contact hours per week: 3-0-0

Critical appreciation of feminism, historical role of women in society, psychological and sociological theories of sex role and gender, philosophical issues relating to women's studies.

WOMEN'S STUDIES 2700**Feminist Research and Methodologies**

Credit hours: 3.0

Contact hours per week: 3-0-0

Critical analysis of scientific methods and research processes from a feminist perspective including design, collection and analysis of qualitative and quantitative data.

Prerequisite: Women's Studies 2000.

WOMEN'S STUDIES 3500**Feminist Theory**

Credit hours: 3.0

Contact hours per week: 3-0-0

A history of the development of feminist theoretical perspectives from the 18th Century to the present using a multidisciplinary perspective.

Prerequisite: Women's Studies 2000.

Recommended background: Philosophy 3007.

WOMEN'S STUDIES 3900**Focus Areas in Women's Studies (Series)**

Credit hours: 3.0

Contact hours per week: 3-0-0

Individual offerings will be determined on a semester basis as faculty and resources are available. For details of specific offerings, pre/corequisites and recommended backgrounds, contact the Coordinator of Women's Studies.

Prerequisite: Women's Studies 2000.

WOMEN'S STUDIES 4900**Seminar in Women's Studies**

Credit hours: 3.0

Contact hours per week: 3-0-0

Seminar for advanced investigation of specific topics or current issues in Women's Studies.

Prerequisite: Women's Studies 2000.

ZOOLOGY

Note: Zoology courses are offered by the Department of Biological Sciences.

ZOOLOGY 2150**Field Zoology**

Credit hours: 3.0

Contact hours per week: 3-3-0

Collection, identification and preservation of local vertebrate and invertebrate fauna; life cycles, ecological relationships, distribution and taxonomic affinities of selected taxa; aquatic forms, terrestrial vertebrates and terrestrial invertebrates.

Prerequisite: Biology 1020.

ZOOLOGY 3300**Sociobiology**

Credit hours: 3.0

Contact hours per week: 3-0-1

Application of evolutionary theory to social behaviour and social organization of animals; individual and kin selection, social groups, mate choice, mating systems, parenting strategies.

Prerequisite: Biology 1020 and completion of any other four courses (12.0 credit hours) offered by the Departments of Biological Sciences and Psychology.

Recommended background: Biology 2000.

ZOOLOGY 3600**Animal Ecology**

Credit hours: 3.0

Contact hours per week: 3-3-0

Physiological and behavioural adaptations of animals, biology of populations and communities; independent laboratory; seminars and lectures using texts and research papers.

Prerequisite: Biology 2200.

Recommended background: Biology 2000 and Statistics 1770.

ZOOLOGY 3700**Animal Physiology I**

Credit hours: 3.0

Contact hours per week: 3-3-0

Organization and diversity of animal functions; lecture and laboratory consideration of both vertebrates and invertebrates, including study of the circulatory, respiratory, osmoregulatory and excretory systems; thermoregulation.

Prerequisite: One of Biology 2000 or 2200, and one course (3.0 credit hours) offered by the Department of Chemistry at the 1000 level or above.

Recommended background: Chemistry 2200 or 2600.

Zoology 3710 - Zoology 4930

ZOOLOGY 3710

Animal Physiology II

Credit hours: 3.0

Contact hours per week: 3-3-0

Organization and diversity of animal functions; lecture and laboratory consideration of both vertebrates and invertebrates, including study of the digestive, endocrine, muscular and nervous systems.

Prerequisite: One of Biology 2000 or 2200, and one course (3.0 credit hours) offered by the Department of Chemistry at the 1000 level or above.

Recommended background: Zoology 3700.

ZOOLOGY 3800

Invertebrate Zoology

Credit hours: 3.0

Contact hours per week: 3-3-0

The systematics, biology, evolution and importance of the invertebrate phyla, including Protozoa, Porifera, Cnidaria, Platyhelminthes, Nematoda, Mollusca, Annelida, Arthropoda, Echinodermata and related smaller groups.

Prerequisite: Biology 2000 and 2200.

ZOOLOGY 3900

Vertebrate Zoology

Credit hours: 3.0

Contact hours per week: 3-3-0

Comparative survey of the morphology, evolution, classification and natural history of the vertebrates.

Prerequisite: Biology 2000 and 2200.

ZOOLOGY 3910

Comparative Vertebrate Anatomy

Credit hours: 3.0

Contact hours per week: 3-3-0

Detailed, comparative study of the major vertebrate groups, with emphasis on the structure, function, development and evolution of the various organ systems; dissection of representative forms.

Prerequisite: Biology 2000 and 2200.

Recommended background: Zoology 3900.

ZOOLOGY 4810

Animal Parasitology

Credit hours: 3.0

Contact hours per week: 3-3-0

Principles of parasitism; taxonomy; biology and life cycles of protozoan, worm and arthropod parasites of humans and other animals; experimental laboratory completion of various representative life cycles; collection, preparation and identification of parasites.

Prerequisite: Biology 2000 and 2200.

Recommended background: Zoology 3800.

ZOOLOGY 4850

Selected Topics in Zoology

Credit hours: 3.0

Contact hours: 3-0-0 or 3-3-0

Topics in selected areas of Zoology.

Prerequisite: Two 3000-level courses (6.0 credit hours) in Biological Sciences.

Note: Laboratories and/or tutorials may or may not be presented for a specific offering.

ZOOLOGY 4920

Mammalogy

Credit hours: 3.0

Contact hours per week: 3-3-0

Evolution and adaptive radiation of mammals; physical and behavioural adaptation for subterranean, terrestrial, aquatic and aerial life, survey of orders and major families; natural history of local selected species; laboratory studies of techniques of identification, preservation and aging, with opportunity for field work.

Prerequisite: Zoology 3900.

ZOOLOGY 4930

Ornithology

Credit hours: 3.0

Contact hours per week: 3-3-0

Biology of birds, adaptation to their mode of existence; their origin and evolution; classification; ecology and distribution; and behaviour.

Prerequisite: Zoology 3900.