

Academic Calendar of Saint Mary's University 2006–2007

Saint Mary's University
Halifax, Nova Scotia
Canada
B3H 3C3

Tel: (902) 420-5400

(902) 420-5452 (TTD)

Fax: (902) 420-5561 (General)

(902) 420-5102 (President)

(902) 420-5104 (Vice President Academic and Research)

(902) 420-5566 (Vice President Administration)

(902) 496-8141 (Vice President Finance)

(902) 420-5511 Vice President (Associate) External Affairs

(902) 420-5151 (Registrar's/Records)

(902) 496-8280 (Recruitment)

(902) 496-8100 (Admissions)

(902) 420-5103 (Continuing Education)

(902) 496-8184 (Financial Services)

Information about Saint Mary's, including this *Academic Calendar* is available on the World Wide Web. Saint Mary's University Home Page is found at <http://www.smu.ca>; the Registrar's Home Page at <http://www.smu.ca/registrar>.

A Brief Guide to Using this *Academic Calendar*

Some of the courses described in this *Calendar* will not be offered in 2006-2007. Students are therefore advised to consult the academic timetable for those courses which will be taught in the 2006-2007 academic year and the time(s) when they will be offered.

Frequently in this *Calendar*, the masculine includes the feminine and the plural includes the singular, and vice versa, as the context may require. This matter is subject to ongoing revision.

Inquiries regarding academic matters should be directed to the Registrar.

Although the University's *Calendar* is used by numerous people for many different purposes, one of its chief functions is to provide information for students interested in studying at the university level. The following was prepared to assist in finding relevant material in this *Calendar*.

Section 3 of this book sets forth the requirements for the many degree, diploma, and certificate programs offered at Saint Mary's University.

These programs include:

Bachelor of Arts
 Bachelor of Commerce
 Bachelor of Science
 Diploma in Engineering
 Diploma in Forensic Sciences
 Master of Arts (in Atlantic Canada Studies, Criminology, History, International Development Studies, Philosophy, Women's Studies)
 Master of Business Administration
 Master of Business Administration - CMA
 Master of Finance
 Master of Management - Cooperatives and Credit Unions
 Executive Master of Business Administration
 Master of Science (in Applied Psychology, Applied Sciences, Astronomy)
 Certificates of Honors Equivalency
 Certificate of Chinese Studies
 Certificate in Proficiency in French
 Certificate in German Language and Culture
 Human Resource Management Certificate Program:
 Management Option
 Human Resource Management Certificate Program:
 Psychology Option
 Certificate of Linguistic Studies
 Certificate of Japanese Studies
 Certificate in Spanish Language and Hispanic Culture
 Graduate Diploma in Criminology
 Graduate Diploma in International Development Studies
 Doctor of Philosophy in Business Administration
 (Management)
 Doctor of Philosophy in Astronomy

Doctor of Philosophy in Industrial/Organizational Psychology

After deciding on the academic program in which they are interested and studying the requirements of that program, students should consult Section 5 which contains descriptions of all the courses offered by the University's academic units. The timetable for the current academic year shows which courses will be available, when they will be taught, and by which instructors. Keeping within the requirements of the particular program chosen, students may then select the courses with the greatest interest and appeal to them. Frequently a course will have several sections often taught at different times. This is arranged in order to keep classes to a reasonable size and to provide time options for students in the preparation of their timetables.

The next step is to apply for admission. Complete information on how to proceed is set forth in the latter part of Section 2. This section also contains the academic regulations and provides academic information. Details on fees and financial information are found in Section 6, which also contains facts about academic awards and scholarships as well as bursaries and student loans.

Inquiries related to specific areas should be directed to the officers indicated below:

Recruitment

Director: 902-420-5070
 Fax: 902-420-5073
 Web Address:
<http://www.smu.ca/administration/admiss/welcome.html>

Academic Policies and Records

Registrar: 902-420-5582
 Fax: 902-420-5151
 Web Address: www.smu.ca/registrar

Admission of Students

Director of Admissions: 902-420-5415
 Local Fax: 902-496-8100
 International Fax: 902-496-8160
 Web Address:
www.smu.ca/administration/admiss/admiss.html

Continuing Education:

Director: 902-420-5492
 Fax: 902-420-5103
 Web Address: www.smu.ca/conted

Alumni Affairs

Director: 902-420-5420
 Fax: 902-420-5140
 Web Address: www.smu.alumni.ca

Bookstore

Manager: 902-420-5562
Fax: 902-420-5006
Web Address:
www.smu.ca/administration/bookstore

Fee Information

Director of Financial Services: 902-420-5464
Fax: 902-496-8184
Web Address:
www.smu.ca/administration/businessoffice/

Library

Circulation 902-420-5547
Fax: 902-420-5561
Web Address:
www.smu.ca/administration/library

Residence Accommodations

single housing: 902-420-5598
family housing, graduate housing: 902-420-5589
Fax: 902-496-8107
Web Address:
www.smu.ca/administration/resoffic/default.html

Scholarships and Student Loans

Financial Aid Counselor: 902-420-5609
Fax: 902-420-5125
Web Address:
www.smu.ca/administration/studentservices/html/financialaid.html

Student Affairs

Director of Student Services: 902-420-5615
Fax: 902-420-5125
Web Address:
www.smu.ca/administration/studentservices

Employment and Job Placement

Manager/Student Employment Office: 902-420-5499
Fax: 902-420-5125
Web Address:
www.smu.ca/administration/studentservices/html/student_employment.html

Contents

A Brief Guide to Using this <i>Academic Calendar</i>	2	Finance	187
Contents	4	Management Science	191
A Message from the President	6	Computing & Information Systems	193
SECTION 1 – GENERAL INFORMATION			
History	8	Forensic Sciences	196
Calendar of Events	11	Geography	198
Board of Governors and Senate	13	Geology	206
SECTION 2 – STUDENT RECRUITMENT AND ADMISSIONS; ACADEMIC REGULATIONS; AND REGISTRATION			
Recruitment and Admission Services	16	Global Business Management	214
Academic Regulations	22	History	216
Registration	41	International Development Studies	224
SECTION 3 – FACULTIES AND PROGRAMS			
Undergraduate Programs	44	Irish Studies	230
Arts	44	Linguistics	234
Commerce: Sobey School of Business	49	Management	237
Science	56	Marketing	246
Engineering	61	Master of Business Administration	250
Forensic Sciences	62	Master of Finance	252
Study Abroad Opportunities	64	Master in Management of Co-operatives and Credit Unions	254
Pre-Professional Programs	65	Master of Science in Applied Science	256
Faculty of Graduate Studies and Research	66	Mathematics and Computing Science	257
General Requirements	66	Mathematics	257
Arts	74	Computing Science	265
Commerce	86	Computing Science and Business Administration	267
Science	95	Modern Languages and Classics	272
Education	104	Ancient History	277
SECTION 4 – CONTINUING EDUCATION			
SECTION 5 – DESCRIPTION OF COURSES			
Accounting	110	Classical Literature and Civilization	277
Anthropology	117	Ancient Egyptian	278
Asian Studies	122	Greek	278
Astronomy and Physics	126	Latin	279
Astronomy	126	Arabic	279
Astrophysics	126	Chinese	280
Physics	130	French	280
Atlantic Canada Studies	131	German	286
Biology	138	Japanese	287
Chemistry	148	Spanish	287
Commercial Law	154	Philosophy	290
Communications	155	Political Science	295
Economics	152	Psychology	301
Education	164	Religious Studies	311
Engineering	167	Sociology and Criminology	318
English	169	Sociology	318
Environmental Studies	178	Criminology	327
Executive Master of Business Administration	183	Women's Studies	333
Film Studies	186	SECTION 6 – FINANCIAL INFORMATION, STUDENT AWARDS, AND FINANCIAL PROGRAMS	
Finance, Information Systems and Management Science	187	A Financial Aid Information	
		Academic Fees	338
		Residence Accommodation and Meal Plan Fees	340
		Payment of Fees	341
		B Awards Administered by Saint Mary's University	
		Entrance Scholarships	342
		Achievement Scholarships (undergraduate)	342
		Named Undergraduate Awards	343
		Mature Students	344
		Demonstrators and Teaching Assistantships	345

SECTION 7 – CENTRES, INSTITUTES, AND SPECIAL PROGRAMS

Atlantic Canada Centre for Environmental Science	348
The Atlantic Centre for Ethics and Public Affairs	348
Business Development Centre	348
The CN Centre for Occupational Health and Safety . . .	349
Centre for Leadership Excellence	349
Centre for Spirituality in the Workplace	350
Gorsebrook Research Institute for Atlantic Canada Studies	350
Institute of Human Values	351
The Institute for Computational Astrophysics (ICA) . . .	351
Regional Geochemical Centre	352
Teaching English as a Second Language (TESL) Centre	352

SECTION 8 – RESOURCES AND SERVICES

Alumni Association	354
Athletics and Recreation/Sports Hall of Fame and Heritage Centre	354
Bookstore	355
Information Technology Systems and Support	356
International Activities Office	356
International Centre	357
Office of Instructional Development	357
Patrick Power Library	357
Observatory	357
Student Services:	357
Chaplaincy	358
Counselling Services	358

Saint Mary's University Student	358
Peers (SMUSP)	358
Sexual Harassment/Sexual Assault	358
Atlantic Centre of Support for Students with Disabilities	358
Financial Aid Office	359
Student Health Services	359
Medical Insurance	359
Student Employment Centre	360
University Residences	360
International Student Advising	360
Day Care Service	361
U Pass	361
Student Discipline	361
University Security	361
The Writing Centre	361
Women's Centre	361
Saint Mary's University Students' Association, Inc.	362

SECTION 9 – ACADEMIC OFFICERS AND FACULTY; CHANCELLORS, PRESIDENT, DEANS, PROFESSORS, AND ATHLETIC DIRECTOR EMERITUS/EMERITA; ADMINISTRATIVE OFFICERS; AWARDS TO FACULTY AND STAFF

Academic Officers	364
Faculty	364
Chancellors, President, Deans, Professors, and Athletic Director Emeriti/Emirita	373
Administrative Officers	374
Awards to Staff and Faculty	376

A MESSAGE FROM THE PRESIDENT ...

*On behalf of my colleagues, I wish to thank prospective and new students for considering Saint Mary's University in your academic career plans. For returning students, welcome back and thank you for the confidence you expressed in choosing Saint Mary's as **your** University. Our vision is for our students to become citizens of the world as education is a critical investment for you and the future of our increasingly global society. We take our role seriously in providing you with the highest return on your investment.*

As this Academic Calendar will demonstrate, we offer a broad range of academic programmes, and are extending the number of graduate programmes to add to those currently available. In addition, we offer many interdisciplinary programmes and we encourage students to study for minors in other faculties to equip them with a broad range of knowledge and skills. Innovation has always been a hallmark at Saint Mary's and we are continuously upgrading our curricula.

Saint Mary's welcomes students from over 80 countries – a veritable United Nations. This is a tremendous resource for the internationalization of our campus. For our Canadian students, we have opportunities to study/work abroad through a number of exchange agreements and internships. For example, we have exchange agreements for study in France, Germany, Mexico, the U.K. and Australia and we are increasing our funding support for these programmes. For those who have graduated, our International Activities office manages a range of internships and Saint Mary's grads have worked in over 36 countries.

At Saint Mary's University students are our primary responsibility and we want to help you achieve your full potential. Recently, we established a Centre for New Students to assist in the early days of transition to university. Give the Centre staff a call at (902) 491-8691 if you feel they could help you. We also have a full range of Student Services on campus, including counseling, peer support, the Atlantic Centre for Support of Students with Disabilities and a Medical Centre. There are a number of student societies to join too. The Tower, arena and stadium provide opportunities for involvement in intramurals and varsity athletics as well as staying in shape! We are committed to campus renewal and you will see evidence of this now and in the future.

You will find academic excellence in our programmes and instructors – our faculty is rated 1st in the country in the latest Maclean's ranking and you will find a dedicated and committed staff to support our academic mission. There is vibrancy, a sense of community and commitment on our campus. I encourage you to read our Academic Calendar and visit our website (www.smu.ca) to learn more about us.

Saint Mary's is a university very much on the move and thank you again for investing in your studies with us.

A handwritten signature in black ink, appearing to read "J. Colin Dodds". The signature is fluid and cursive, with a long horizontal stroke at the end.

*J. Colin Dodds, Ph.D.
President
(colin.dodds@smu.ca)*

General Information

**History
Calendar of Events
Board of Governors and Senate**

Section 1

General Information

More Than Two Hundred Years of History

Since its founding in 1802, Saint Mary's University has developed into a modern, urban university with more than 8,500 full and part-time students. It is the oldest English-speaking, Roman Catholic initiated university in Canada. With meagre resources, the Reverend Edmund Burke founded the institution and, on being named Bishop of Nova Scotia, insisted that support for the college be continued as essential in fostering the Catholic community.

In 1841 the Nova Scotian House of Assembly gave formal recognition of the college's academic role and, eleven years later, granted it legal status. The next few years saw a great deal of uncertainty about the survival of the college.

However, in 1913 the Christian Brothers of Ireland were asked by the Archdiocese of Halifax to direct the college and its academic programs. Its reputation as a liberal arts institution thrived in these years. Undergraduate programs were widely respected and new instructional programs were initiated, the most notable being the Faculty of Commerce which, when established in 1934, was among the first of its kind in Canada. In 1940 the Upper Province of the Society of Jesus (the Jesuits) was invited to succeed the Christian Brothers as administrators and teachers. In 1952, the "College" became a "University". For more than thirty years, until the new Act of Incorporation in 1970, the college remained under Jesuit supervision. It established itself in teacher education; initiated the first courses in continuing education in Halifax/Dartmouth; purchased the first computer in Atlantic Canada; and became coeducational. Also, the long-standing emphasis on liberal arts and commerce was complemented by new programs in engineering and science. The Act of 1970 gave legal status to the Board of Governors and Senate. Subject to the powers of the Board, the Senate is responsible for the educational policy of the University. In 1974, faculty members (full-time) formed the Faculty Union which has become an influential voice in the affairs of the University. Part-time faculty members became a separate bargaining unit in 1996.

Statement of Objectives

The objectives of the University, as defined in the Saint Mary's University Act, 1970, are to:

- a. promote and disseminate learning and knowledge;
- b. give special emphasis to the Christian tradition and values in higher education;
- c. provide an atmosphere of freedom, responsibility, and mutual respect in the University community;
- d. aid in the improvement of society in all ways consistent with these objects.

From the Jesuits and their predecessors, Saint Mary's has inherited a strong commitment to meeting community needs and an equally strong tradition of emphasising excellence in

teaching and excellence in research. During the past three decades Saint Mary's has evolved into a more complex urban university, with a full range of undergraduate programs in arts, commerce, education, and science. Master's programs are offered in all faculties in such specific subject areas as Atlantic Canada Studies, Criminology, History, International Development, Women's Studies, Astronomy, Applied Psychology, and Business Administration. In November 1999 a doctoral program in Business Administration (Management) was officially launched and in 2003 Astronomy. Now a publicly accessible, coeducational institution, functioning with a sense of its tradition, the University also offers pre-professional programs in law, medicine, engineering, theology, dentistry, architecture. Through the co-operative efforts of the Division of Continuing Education, part-time students study in these programs and in a variety of non-credit programs all of which have been rapidly expanding both in numbers and geographic locations.

Over the last several decades this commitment to academic and research excellence has seen the number of full-time faculty with doctoral degrees rise to over 85 percent. Part-time faculty members are recruited on the strength of academic qualifications in addition to the expertise and experience they can bring to the classroom.

More dramatic evidence of faculty enrichment is demonstrated by their research activities. In the last decade, sponsored contract and academic research has increased markedly from \$250,000 to more than \$5,000,000 per year. This significant increase reflects the University's firm belief that excellence in both teaching and research is essential for professors and that research is an integral part of the contributions that universities must make to society.

The quality of instruction to students has been a focal point of Saint Mary's University since its founding. This long standing tradition of commitment to excellence in teaching has seen the introduction of new initiatives. The Quality of Teaching Committee and the Office of Instructional Development have assisted faculty members by offering workshops on instructional techniques and innovations in teaching methodology. Awards for Teaching and Research Excellence are presented annually to members of faculty.

More than eleven thousand students are enrolled during the academic year and in the two summer sessions at Saint Mary's University. They attend day and evening classes both on the 30 acre campus in the south end of Halifax and at off campus locations including the World Trade Centre in downtown Halifax; in Dartmouth; as well as in several other communities. Saint Mary's boasts residence facilities for single and married students, a Students Centre, Science Building, the Patrick Power Library, which is linked via computer to several other Halifax-Dartmouth universities, a multi-million dollar Computer Centre, and "The Tower" which is one of Atlantic Canada's most modern recreation and fitness complex. The newest structure on campus is the

Sobey Building, officially opened in November 1998. It provided much needed additional classrooms with the very latest in technology and is home to the Sobey School of Business. Over the last number of years, Saint Mary's University has become a teaching and research institution where "tradition meets the future".

The traditions formed by its founder and early teachers, built upon by the sound educational values of the Christian Brothers, and strengthened by the imaginative leadership of the Jesuits, provide a stable base for future development. Saint Mary's has been innovative in seeking co-operative ventures with other Maritime universities. The results have included the Regional Geochemical Centre as well as the Gorsebrook Research Institute which contributes to the understanding of our regional culture within a national context. Our 'internationalization' has seen formal teaching and research agreements signed with universities around the world including China and Japan as well as Mexico and The Republic of The Gambia. The Atlantic Centre of Support for Students with a Disability has grown remarkably over the last several years and provides a variety of support to an increasingly important sector of our student population. It also provides assistance to disabled students studying at other Maritime post secondary institutions.

Saint Mary's University concentrates on its mission of providing excellence in its service to students and the larger community around the campus. Its reputation is one of quality education on a campus environment where individual development is paramount. Saint Mary's student population is drawn largely from Halifax and Dartmouth with fifty-seven percent of its students from this area. Nova Scotia is the home province of 87 percent of Saint Mary's students. There is also a distinct international aspect to the University with students from many countries including China, Japan, Bermuda, the United States, and Mexico. We are ambitiously pursuing a goal shared by many. It is a vision centred around continued academic excellence in teaching and research, accessibility for all Nova Scotians, strong community outreach, and facilities and instruction for the physically challenged. With its strong sense of where it has been, Saint Mary's University has focused clearly on the mission ahead — being "where tradition meets the future".

Beginning officially on 24 May 2002, the University's Bicentennial Anniversary was celebrated with a year long series of special events, undertakings, and new initiatives which will position the institution strategically for the twenty first century.

The Academic Plan: Framework Document

A major undertaking of the past year has been the development and articulation of an ambitious Academic Plan which essentially outlines the University's future. Supporting existing programs, protecting the University's core values, and providing clear strategic directions are central elements of this document entitled *Academic Plan: Framework Document*. The University's motto: "What you do, do well" was the guiding principle of the Plan.

The Academic Plan is the result of over a year of plenary sessions, research, and consultations with all levels of the University's many constituencies. The dimensions of Saint Mary's activities are highlighted under four sections:

- History and Character
- Key Success Factors
- Building on Strength
- Meeting Challenges and Opportunities

"The plan describes the scope of activities which comprise our institutional agenda and emphasizes the mutually reinforcing nature of these endeavours," says Dr. Terry Murphy, Saint Mary's Vice President, Academic and Research, who led the process of developing the Academic Plan. "Working with a clearly articulated sense of academic priorities was crucial to the development of the Academic Plan," he says. "We wanted to ensure that academic concerns would drive, rather than be driven by, the process." Dr. Colin Dodds, President of Saint Mary's says, "Academics are at the core of what we do, research, teaching, service and everything else has to support that."

Dr. Dodds describes the Academic Plan as a partnership within the Saint Mary's community. "Through a consensus in the academic areas on direction, in consultation with other areas of the University we have ended up with a shared vision and will share in the implementation of the plan." Dr. Dodds says that the Academic Plan will provide a roadmap for the future. "The Academic Plan outlines what we will need to sustain us along the journey, our direction and how long it will take." He says that it will also establish markers of the University's progress and help to assess performance. "To simply say that we have a plan is not enough, as implementation moves forward we will be revising the plan and continue to go back to it," says Dr. Dodds. "What we are doing is strategizing and not being rigid so that we can deviate from the plan. It requires a fluidity because things can change. The dynamism and flexibility of the plan will allow us to fine tune it as we go along."

Memberships

Saint Mary's University is a member of a number of organizations including Association of Universities and Colleges of Canada, Association of Atlantic Universities, and Association of Commonwealth Universities.

Affiliations

Saint Mary's University has been associated with Dalhousie University (formerly DalTech and prior to that the Technical University of Nova Scotia) since 1916, providing the first two years of study leading to the degree of Bachelor of Engineering in civil, electrical, mechanical, mining, metallurgical, chemical, and industrial engineering. Formal association also exists between the University and Ignatius College in Guelph. The affiliation between Saint Mary's University and Regis College, Toronto, has been in suspension in light of the association between the Toronto School of Theology and Regis College. At the beginning of the 21st century, Saint Mary's University and the Atlantic School of Theology entered into a formal Memorandum of

10 General Information

Agreement concerning future co-operation and new initiatives. This promises many exciting new developments, including a Centre for Ethics as well as co-operative ventures with faculty and students.

Privacy Legislation

(1) Freedom of Information and Protection of Privacy Act (FOI-POP)

On 23 November 2000, the Freedom of Information and Protection of Privacy Act (FOI-POP) became applicable to all post-secondary institutions in Nova Scotia. The purpose of this Act is to allow any person a right of access to the records of the University, to control the manner in which the University may collect information from individuals, to control the use that the University may make of that information, to control its disclosure of that information, to allow individuals the right of access to information about themselves, to allow individuals a right to request corrections to their personal information, and to provide for an independent review of decisions of the University made under this Act and the resolution of complaints under this Act.

Saint Mary's University creates and collects information for the purpose of admission, registration, and other activities directly related to its educational programmes. All applicants for admission are advised that the information they provide, and any other information placed into the student record, will be protected and used in compliance with Nova Scotia's Freedom of Information and Protection of Privacy Act. Additional information on the release of data on students is delineated below in Section 2, academic regulations 32.

(2) Personal Information Protection and Electronic Documents Act (PIPEDA)

On 1 January 2004, the Provincial Private Sector (including post-secondary institutions) became subjected to PIPEDA. In an era in which technology increasingly facilitates the circulation and exchange of information, its purpose is to establish rules to govern the collection, use and disclosure of personal information in a manner that recognizes the right of privacy of individuals with respect to their personal information and the need of organizations to collect, use or disclose personal information for purposes that a reasonable person would consider appropriate in the circumstances.

University Crest and Motto

The University crest was designed in the 1940s by the Reverend Daniel Fogarty, S.J., the then Dean of Education. Each symbol in the crest has a significance relevant to the various phases and history of the University. On the outer portion of the crest the name and location of the University are inscribed in Latin, and in Roman numerals (1841), the date the University received its charter authorizing it to grant degrees. The book shown above the shield represents learning and knowledge. The inscription on the page of the book is in Latin – "Age Quod Agis". This is the motto of the University which exhorts all those connected with the University to strive to do their best in everything that they do. This quotation is from the Irish Christian Brothers and symbolizes their contribution to the development of the institution. The centre portion of the crest is a shield. The

upper part of this has the official seal of the Jesuits with I.H.S. being the Greek initials for Christ's name. Below these initials are the three nails which represent the Crucifixion and surrounding these is the Crown of Thorns.

The two crowns in the lower part of the shield represent a dual loyalty – to the then Dominion of Canada and to the British Commonwealth. Below these crowns is the thistle, emblematic of Nova Scotia's Scottish heritage.

University Colors and Mascot

The official colors of the University are maroon and white.

In 1960 Saint Mary's University chose Huskies as the name for their sports teams. The Siberian Husky became the official mascot for qualities which paralleled the teams' motto, In Pursuit of Excellence. Pound for pound, the Siberian Husky is the strongest draft dog in existence. A versatile and gentle dog, the Husky is the perfect example of tenacity, drive, and loyalty. Like their namesake, the Saint Mary's Huskies strive for gold. They are willing to work hard and are always attempting to achieve their fullest potential.

The University Mace

The ceremonial mace, which is carried by the Marshal of Convocation at the head of the academic procession, was presented to Saint Mary's in April 1980 and used for the first time at the 1980 Convocation. It symbolizes the University's authority to grant degrees. It was made and presented to the University by Maritime Command in recognition of Saint Mary's alumni killed in both world wars and also serving members of the Canadian Armed Forces who have been students at the University. The mace is made of oak with a cast brass crown and brass plates carrying traditional ceremonial engravings. The plates represent the contribution to Saint Mary's by the Jesuit Fathers, the Christian Brothers of Ireland, the Archdiocese of Halifax, the LaSalle Christian Brothers, the Lay Teachers, and the Armed Forces.

The Presidential Medallion of Office

On 22 October 2000, a Medallion of Office was officially presented to the University and used for the first time at the Installation of Dr. J. Colin Dodds as President. Designed and crafted by James Bradshaw and Bruce Babcock of James Bradshaw Jewellery Design Studios, Inc., Halifax, its centre is a University Gold Medal, traditionally awarded to the top graduating students. It symbolizes the University's deep commitment to academic excellence. It is surrounded by contrasting sterling silver, representing the diversity of the institution's students and of its academic programs. It was generously presented by Mary Eileen Donahoe and her family as a memorial to the late Senator Richard A. Donahoe, Q.C., K.S.G., LL.D.(Hon.), a member of one of the earliest Boards of Governors, in recognition of his career of public service and his love of Saint Mary's.

ACADEMIC CALENDAR OF EVENTS

2006–2007

2006**July**

4 (Tuesday) Deadline for filing an Application for Graduation for Fall Convocation, 2006.

Registration

Details on registration for the 2006-2007 academic year will be published in the *Registration Book, 2006-2007*, published in mid-July 2006.

September

6 (Wednesday)

CLASSES BEGIN.

15 (Friday)

(a) **Last day for registering and changing six (6) credit hour courses (i.e., designated .0) and three (3) credit hour courses (i.e., designated .1)**

(b) Last day for filing Applications for Graduation for degrees, diplomas and certificates to be awarded at Spring Convocations, 2007.

(c) Last day for final payment of first semester tuition fees.

October

9 (Monday)

Thanksgiving Day. No classes.

29 (Sunday)

Fall Convocation, 2006

November

10 (Friday)

Last day for withdrawing, without academic penalty, from three (3) credit hour courses (i.e., designated .1) and from six (6) credit hour course (i.e., designated .0) taught only in the first semester (Reference: Academic Regulation 16).

11 (Saturday)

Remembrance Day. No classes.

December

1 (Friday)

Last day of classes in first semester.

2 (Saturday)

Study Day. No classes.

4 (Monday)

Start of formal final examinations in three (3) credit hour courses (i.e., designated .1) and formal mid-year examinations in six (6) credit hour courses (i.e., designated .0).

8 (Friday)

Patronal Feast of the University. No examinations are scheduled on this day.

18 (Monday)

End of final exams and end of first semester. **Note:** Subject to change should it not be possible to schedule all formal examinations in the designated timeframe.

2007**January**

3 (Wednesday)

CLASSES RESUME.

12 (Friday)

(a) **Last day for registering in a three (3) credit hour course (i.e., designated .2)**

(b) Last day for final payment of second semester tuition fees.

13 (Saturday)

Last day for withdrawing, without academic penalty, from a six (6) semester hour course (i.e., designated .0) taught over both semesters (Reference: Academic Regulation 16).

February

19 (Monday) –

24 (Saturday)

Winter Break. No classes.

12 Academic Calendar of Events

March

16 (Friday) Last day for withdrawing, without academic penalty, from three (3) credit hour courses (i.e., designated .2) or six (6) credit hour courses (i.e., designated .0) taught only in the second semester (Reference: Academic Regulation 16).

April

5 (Thursday) Last day of classes in second semester.

6 (Friday) Good Friday. University closed.

7 (Saturday) Study Day.

9 (Monday) Start of formal final examinations in three (3) credit hours courses (i.e., designated .2) and in six (6) semester hour courses (i.e., designated .0).

28 (Saturday) End of formal final examinations and end of second semester. **Note:** Subject to change should it not be possible to schedule all formal examinations in the designated timeframe.

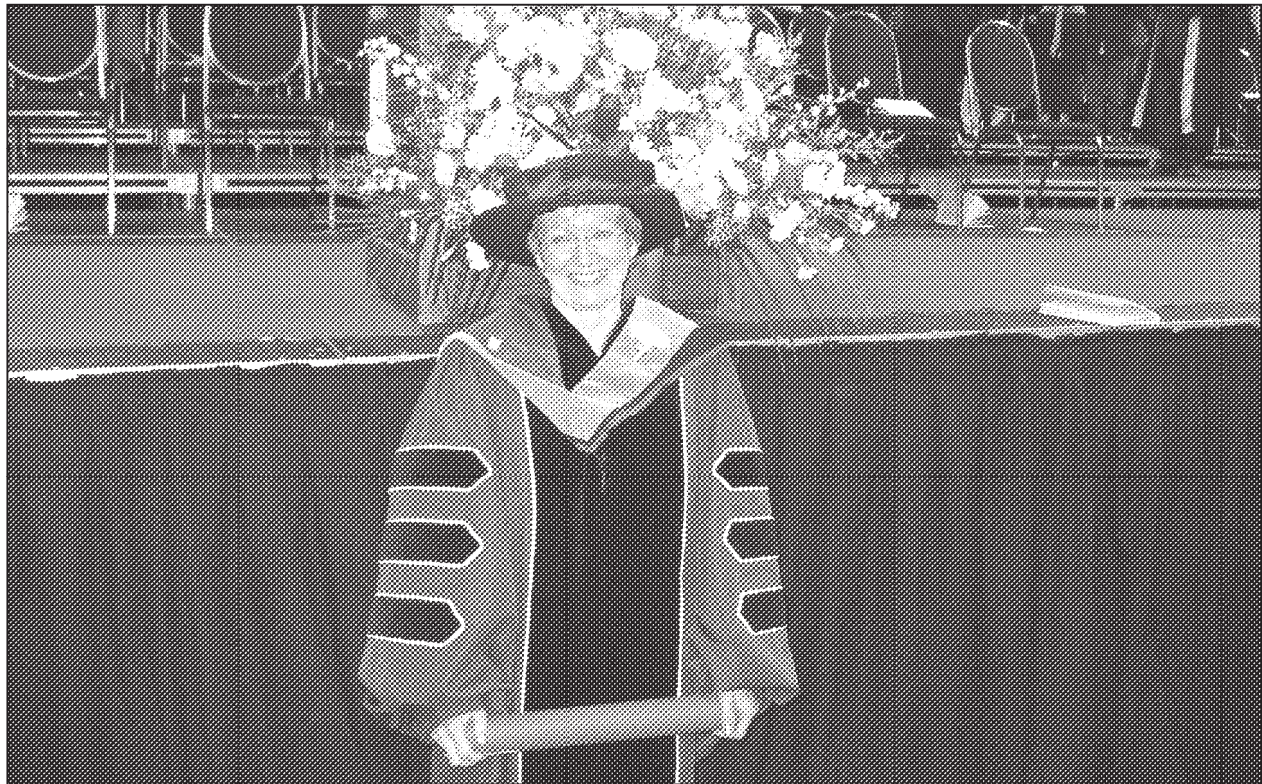
May

25 (Friday) Spring Convocations, 2007, at Halifax Metro Centre.

July

3 (Tuesday) Last day for filing applications for degrees, diplomas, and certificates to be awarded at Fall Convocation, 2007.

Each year, Saint Mary's University offers two summer sessions. For the year 2006, the dates are: First Session, 8 May to 23 June with the split for .1 and .2 occurring on 31 May/1 June. Second Session, 4 July to 18 August with the split for .1 and .2 courses on 26 July/27 July. Details are available from the Division of Continuing Education. The summer semester for graduate programs is 8 May to 18 August.



Elizabeth Kelley became Saint Mary's first PhD graduate on May 20, 2005 when she received the Sobey School of Business PhD in Management.

Board of Governors and Senate

Board of Governors

Chairperson

Mr. Paul Dyer

Vice-Chairperson

Mr. David Grace

Members Ex-Officio

Chancellor
Archbishop Terrence Prendergast, S.J.

Vice-Chancellor
Most Reverend Claude Champagne

President
Dr. J. Colin Dodds

Vice-President, Academic and Research
Dr. Terrence Murphy

Vice-President (Administration)
Ms. Gabrielle Morrison

Vice President (Finance)
Mr. Lawrence Corrigan

Members Appointed by the Roman Catholic Episcopal Corporation

Ms. Helen Gillis to July 31, 2007
Ms. Karen Oldfield to July 31, 2006
TBA

Members Elected by the Alumni Association

Mr. Robert (R.B.) Cameron to July 31, 2006
Ms. Wendy Brookhouse to July 31, 2008
Ms. Sarah Dennis to July 31, 2006
Mr. George McLellan to July 31, 2008
Mr. Garry Pye to July 31, 2006
Ms. Michele Wood-Tweel to July 31, 2007

Members Elected by the Academic Staff

Dr. Paul Bernard to July 31, 2006
Dr. Jaroslav Dostal to July 31, 2008
Dr. Edna Keeble to July 31, 2007
Dr. Corey Pye to July 31, 2006
Dr. Shripad Pendse to July 31, 2007
Dr. Russel Summers to July 31, 2008

Members Elected by the Students

Ms. Leah Bilodeau to July 31, 2006
Mr. Zach Churchill to July 31, 2006
Mr. Olivier Jarda to July 31, 2006
Mr. Adam Lordon to July 31, 2006

Member Appointed by the Upper Canada Province of the Society of Jesus

TBA

Members Elected by the Board of Governors

Mr. Paul Dyer to August 31, 2006
Dr. Eligio (Lee) Gaudio to July 31, 2006
Mr. David Grace to July 31, 2007
Mr. Thomas (Tim) C. Moore to July 31, 2008
Mr. Paul Sobey to July 31, 2007
Mr. Fred Smithers, O.C. to July 31, 2008
TBA
TBA

Members Appointed by the Lieutenant-Governor in Council

Mr. John Fitzpatrick to December 16, 2007
Mr. Lawrence Hood to December 16, 2007

Observer Elected by Support Staff

Ms. Donna Filek to August 31, 2006

Academic Senate

Chairperson

Dr. Donald J. Naulls

Vice-Chairperson

Dr. Robert McCalla

Members Ex-Officio

Dr. J. Colin Dodds, President
Dr. Terrence Murphy, Vice-President, Academic and Research
Dr. Esther Enns, Dean of Arts and Acting Dean of Education
Dr. David Wicks, Acting Dean of Commerce
Dr. David H. Richardson, Dean of Science
Dr. Kevin Vessey, Acting Dean of Graduate Studies and Research
Dr. Paul Dixon, Associate Vice President (Enrolment Management) and Registrar
Mr. Keith Hotchkiss, Director of Student Services
Ms. Madeleine Lefebvre, University Librarian

Members Elected

To August 2008

Dr. Charles Beapre
Dr. Robert Konopasky
Dr. John MacKinnon
Dr. Jeff Power
Dr. Veronica Stinson

To August 2007

Dr. Susan Bjornson
Dr. Norma Linney
Dr. Robert McCalla
Dr. Ron Russell
Dr. Tim Stretton

To August 2006

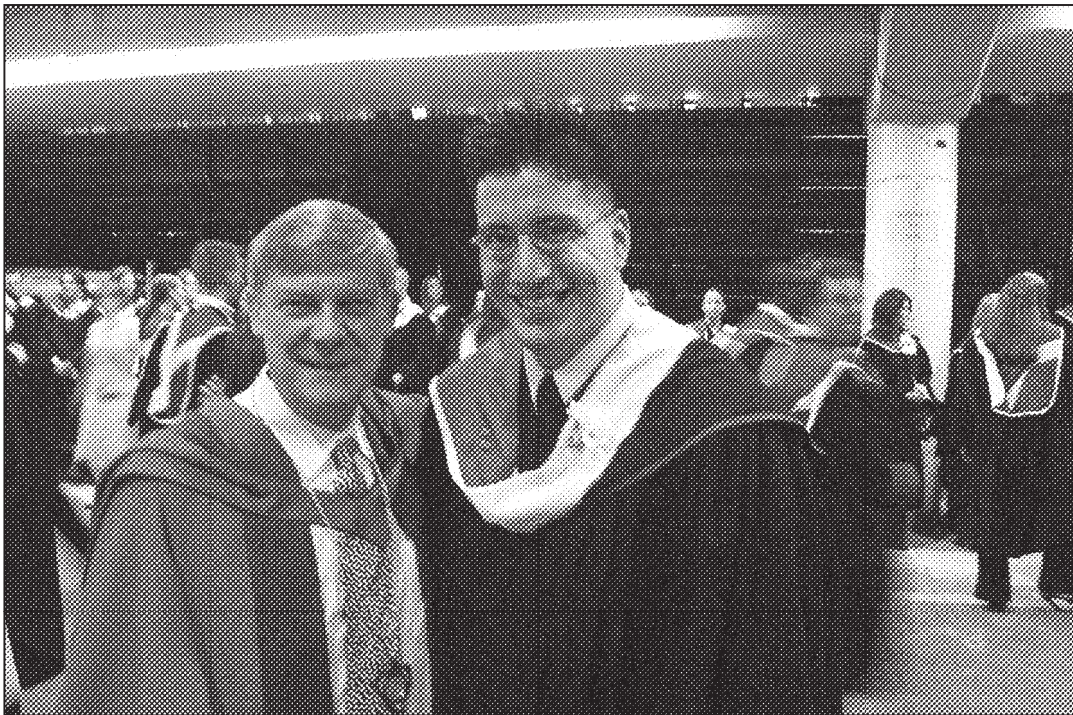
Dr. Paul Bernard
Dr. Jaroslav Dostal
Dr. Donald Naulls
Dr. Shripad Pendse
Dr. Cory Pye

Student Senators

Mr. Zach Churchill
Ms. Heather Easling
Mr. Olivier Jarda
Mr. Adam Lordon
Mr. Jay Shaw

Senate Office

Barb Bell



Dr. J. Colin Dodds, President of Saint Mary's (left) and Jarvis Googoo, who graduated with a Bachelor of Arts (BA) degree. Googoo completed his secondary school education in Waycobah First Nation Secondary School, Whycomagh, Cape Breton. Googoo's aunt, Dolena Googoo, graduated from Saint Mary's on the same date exactly 25 years ago.

**Recruitment and
Admission Services**

Academic Regulations

Registration

**Section
2**

Recruitment & Admission Services

Student Recruitment manages/markets Saint Mary's programs and services specifically related to the recruitment of students. The department is responsible for planning, coordinating and implementing a comprehensive, timely and multi-faceted marketing and information program designed to encourage prospective (domestic and international) students to apply for admission to the University.

Campus tours are normally available

Monday	10:00-11:30 a.m.
Wednesday	1:30-3:00 p.m.
Friday	10:00-11:30 a.m.
Saturday	10:00-11:30 a.m.

Each tour is approximately 90 minutes in length. You will have the opportunity to visit our lecture halls, library, bookstore, residences, athletics facilities and dining halls. Two week advance booking is recommended.

To book a tour call 902-420-5682 or email
campustours@smu.ca

Visitors to our campus are advised to park on Robie Street and enter through McNally Main Entrance where you will be met by our student ambassadors. Please note that Saturday tours may not be as comprehensive as week day tours as some areas may not be accessible.

Students seeking program information and application forms should contact:

Recruitment Office
Saint Mary's University
Halifax, Nova Scotia B3H 3C3

Telephone: 902-496-8280
Fax: 902-420-5073
e-mail: recruitment@smu.ca or
international@smu.ca

The Admission Office is responsible for making undergraduate admissions decisions. In addition, the Admissions Office awards Entrance Scholarships. Students seeking admission to an undergraduate program at Saint Mary's University should submit their application to:

Admissions Office
Saint Mary's University
Halifax, Nova Scotia B3H 3C3

Telephone: 902-420-5415
Fax: 902-496-8100
e-mail: admission.status@smu.ca

Helpful Numbers

- (i) To arrange a personal interview with an Admissions Officer: 902-420-5415
- (ii) To inquire about the status of your Application or Entrance Scholarship: 902-420-5415
- (iii) Student Loan Information & Continuing Awards: email

michelle.fougere@smu.ca
telephone: 902-420-5615

- (iv) Residence enquires:
email residence.life@smu.ca or
telephone: 902-420-5598
- (vi) Off campus housing enquires:
email offcampus.housing@smu.ca
telephone: 902-491-8606

Centre for New Students – New School, New People, New Place

As a new student at Saint Mary's, you may have lots of questions you need answered. That's what the Centre for New Students is for – to help you find answers to your questions. Located in the Admissions Office in the McNally Building, the Centre for New Students welcomes new and prospective students. At the Centre, students can be linked with the appropriate academic departments, support services, and learn more about what the Saint Mary's community has to offer.

The Centre for New Students provides:

- Pre-admission counseling for high school students who are interested in full-time or part-time studies.
- A "home base" information area for all new students once they arrive on campus.
- Referrals to the appropriate academic, administrative departments and support services.
- Answers to students' questions and an opportunity to learn more about the University community.
- Assistance students in understanding the course selection process and determining their own academic timetable.

Students are invited to drop by anytime to chat or to take advantage of the many brochures, pamphlets and other publications designed to help with the transition to university life at Saint Mary's University.

If you would like to schedule a session please call 902-491-8691 or e-mail us at cns@smu.ca

1. Procedures for Admission to Undergraduate Programs

a. Applications from Canadian students (except those transferring from other post-secondary institutions) must reach the Admissions Office by 1 July for September admission; 1 November for January admission. For international applicants, the deadlines are 1 April for September admission; 1 August for January admission. The deadline for receipt of applications from students who wish to transfer from another post-secondary institution to Saint Mary's University beginning in September is 1 June; beginning in January, the deadline is 1 October. Applications received after these deadlines will be considered on an individual basis. Enclose provincial certificates or other accredited school certificates giving final grades or marks, and a processing fee of \$40.00 (Canadian) with the application form.

b. Applicants who have completed courses at another post-secondary educational institution must request an official transcript be sent to Saint Mary's University. Failure to report all institutions attended will result in dismissal from the University.

c. (i) Former Saint Mary's University students who were not in attendance during the preceding academic year or during a period of up to four years, who were not required to withdraw from the University and who wish to resume studies in the same academic program in which they were formerly registered, must notify the Director of Admissions in writing of their intent to return to the University before registering for any course, and must fill in an "Application Form B" available at www.smu.ca/application or the Admissions Office. The deadlines for filing this form are the same as those found in 1a.

(ii) Former Saint Mary's University students seeking to enroll in a different academic program, or who have not been registered during the preceding four years, who have been required to withdraw, or who attended another post-secondary institution since last attending Saint Mary's, must apply for re-admission to the Director of Admissions (see Academic Regulations). The deadlines are found in 1a above.

d. Students who were registered in an academic program during the entire preceding academic year are not required to reapply for admission to the University. Such students will automatically be sent information with respect to registration for the coming year. This mail-out is sent to the students' home addresses unless an alternate address has been filed officially with the Registrar by the stipulated deadlines.

e. Once admitted to the University, the student agrees to abide by any and all rules and regulations affecting students officially passed and duly promulgated. The student agrees that failure to abide by such regulations and rules may result in expulsion from the University without refund of tuition or any other fees paid by the student to the University.

f. All applicants will automatically be issued their own unique PIN under the following terms of personal responsibility:

- (i) understanding the requirements for the privacy and confidentiality of the PIN and account;
- (ii) being familiar with the limitations and timelines of the information accessed from this source (and any revisions thereto); and
- (iii) the right and responsibility of the University:
 - (a) to revise this information and its own regulations and guidelines; and
 - (b) to withdraw students' right to access their account for due cause.

2. Requirements for Admission to Undergraduate Programs

a. General Considerations

(i) The following requirements have been established as a guide to applicants. Possession of these minimum requirements does not establish the right of an applicant to be admitted or readmitted to the University. The University reserves the right to accept or reject any applicant.

(ii) Definitions:

(a) "Satisfactory grades" means an average in five subjects of 65% and no mark below 60%.

(b) "Academically recognized subjects" means subjects offered in the university preparatory program of an approved school system.

Early Admission Category 1:

Students who have achieved an overall average of 80% or above in grade 11 and are registered in grade 12 courses, that satisfy the requirements of the academic program to which they are applying, will be offered early admission. Admission would be conditional upon maintaining "satisfactory" final grade 12 results in June.

The deadline for application is **November 1**. Students who have submitted an application, complete with high school transcript, will receive a decision no later than December 31. Please use "Application Form A". Applications can be obtained through our website at www.smu.ca/application or the Admissions Office.

Early Admission Category 2:

Students who have achieved an overall average of 70% or above in grade 11 and who have achieved an overall average of 70% or above in mid first semester grade 12 courses, that satisfy the requirements of the academic program to which they are applying, will be offered early admission. Admission would be conditional upon maintaining "satisfactory" final grade 12 results in June.

The deadline for applications is **December 15** and students who have submitted an application, complete with high school transcript, will receive a decision no later than February 15. Please use "Application Form A". The Admissions Office will determine the appropriate Admission Category based upon a student's marks and the date of application. Applications can be obtained through our website at www.smu.ca/application or the Admissions Office.

Note: Applicants who are not admitted under the provisions of early admission but whose final first semester grade 12 results are acceptable will be offered regular admission. Admission would be conditional upon maintaining "satisfactory" final grade 12 results in June.

(iv) Entrance Scholarship Program

Please refer to the Student Awards & Financial Aid Programs for information on Entrance Scholarships in Section 6 below.

b. Nova Scotia

Students applying from Nova Scotia Grade 12 with satisfactory grades in English and four other academically recognized subjects, as coded below, may be admitted.

Requirements are as follows:

- (i) Faculty of Arts: English 12 academic plus four additional Grade 12 academic courses, one of which may be an approved open course;
- (ii) Faculty of Science: English 12 academic, Pre-Calculus Mathematics, two Grade 12 academic science courses, plus one additional Grade 12 academic course or approved open course;
- (iii) Division of Engineering: English 12 academic, Pre-Calculus Mathematics, Physics 12 academic; Chemistry 12 academic, plus one additional Grade 12 academic course or an approved open course;
- (iv) Faculty of Commerce: English 12 academic, Pre-Calculus Mathematics or Academic Mathematics 11 and 12 or Advanced Mathematics 11 and 12, plus three other Grade 12 academic courses, one of which may be an approved open course.

c. Quebec

In order to be considered for admission, students must complete one year of CEGEP and satisfy the specific subject requirements as noted above in 2b. Credits for students with two years of CEGEP will be assessed separately.

d. Ontario

In order to be considered for admission, students must complete the following specific subject requirements:

Faculty of Arts: English 4U plus 4 additional 4U courses (one 4M course may be substituted).

Faculty of Science: English 4U plus Geometry & Discrete Mathematics – MGA4U or Calculus – MCB4U plus two 4U science courses plus one additional 4U course (one 4M course may be substituted).

Division of Engineering: English 4U plus Geometry & Discrete Mathematics – MGA4U or Calculus – MCB4U plus Chemistry and Physics 4U plus one additional 4U course (one 4M course may be substituted).

Faculty of Commerce: English 4U plus Mathematics & Data Management – MDM4U or Geometry & Discrete Mathematics – MGA4U or Calculus – MCB4U plus three additional 4U courses (one 4M course may be substituted).

Note: If a high school does not offer a sufficient number of 4U courses, then additional 4M courses may be substituted.

e. Other Provinces

New Brunswick, Prince Edward Island, Newfoundland, Manitoba, Saskatchewan, Alberta and British Columbia:

In order to be considered for admission, students applying

from these provinces must complete Grade 12 and satisfy the specific subject requirements as noted above in 2b.

f. American School System

- (i) In order to be considered for admission, students must complete Grade 12 with 16 points. Students seeking admission to Arts must have 4 points in English and 12 points in other academic subjects. Students seeking admission to Engineering and Science must have 3 points in mathematics and at least 3 points in science subjects. Students seeking admission to Commerce must have 3 points in mathematics.
- (ii) Students must arrange to provide the Admissions Office with a high school transcript, and SAT score results.

g. General Certificate of Secondary Education (G.C.S.E.) Systems

To be considered for admission, students must complete one of the following certificates:

- The British or Caribbean General Certificate of Education (GCE)
- General Certificate of Secondary Education (G.C.S.E.);
- the Bermuda Secondary School Certificate (B.S.S.C.);
- the Hong Kong Certificate of Education (H.K.C.E.);
- the Malaysian Certificate of Education (S.P.M./H.S.C.), or
- the West African School Certificate (W.A.S.C.).

The student must have passes in at least five subjects, two of which must be at the advanced level, and satisfy the specific subject requirements as noted above in 2b. Students who achieve above average results in a minimum of five ordinary “O” level courses will be considered for admission.

h. International Baccalaureate (I.B.) and Advanced Placement (A.P.)

Students will be considered for admission providing they have successfully completed the requirements for one of these diploma programs and satisfy the specific subject requirements as noted above in 2b.

Students with grades of 5, 6, or 7 on higher level I.B. certificates are eligible to receive a maximum of eighteen (18) credit hours of advanced standing toward their undergraduate degree program.

Students who have successfully completed the IB Diploma with a score of 30 or above will be granted 30 credit hours of advanced standing. 18 credit hours will be based upon the equivalency between IB courses completed at the higher level and the Saint Mary's University courses.

Students with grades of 4 or 5 on A.P. courses are eligible to receive a maximum of eighteen (18) credit hours of advanced standing toward their undergraduate degree program.

A chart of Saint Mary's University courses equivalent to specific A.P. or I.B. courses is available on the web at <http://www.smu.ca/administration/admiss/ap-ib-equiv.pdf>

i. Language Requirement

Students whose first language is not English, and who have not attended an English language secondary school, are required to take one of the standardized English language proficiency tests. These tests are administered by the University of Michigan, the College Entrance Examination Board, the University of Cambridge, and Saint Mary's University. The standards for admission to the University are as follows:

- (i) a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) (minimum computerized TOEFL score 213) or a minimum iBT score of 80 overall with at least 20 in each of the four sub-tests: Reading, Writing, Listening and Speaking; or
 - (ii) an aggregate grade of C or higher on the Cambridge First Certificate in English; or
 - (iii) a minimum score of 80 on the Michigan examination (MELAB); or
 - (iv) an average of 4.5 on the CanTEST administered by Saint Mary's University; or
 - (v) a minimum score of 6.5 on the International English Language Testing System (IELTS).
- One of the above examinations may be taken in almost any country of the world at almost any time of the year.
- (vi) Successful completion of English for Academic Purposes, Level Six, in the Intensive English Program, administered by Saint Mary's University.
 - (vii) A minimum score of 60 on the Canadian English Language Assessment (CAEL).

Applicants should apply directly to one of the following testing centers:

- (i) Educational Testing Service (TOEFL)
Box 899
Princeton, New Jersey 08514 U.S.A.
- (ii) Cambridge Examinations in English
Local Examinations Syndicate
Syndicate Buildings
Cambridge, England
- (iii) University of Michigan English Proficiency Test
Language Institute of Ann Arbor
Ann Arbor, Michigan 48104 U.S.A.
- (iv) For the CanTEST or CAEL:
TESL Centre
Saint Mary's University
Halifax, Nova Scotia B3H 3C3 Canada
Phone: 902-420-5691
Fax: 902-420-5122
E-mail: tesl@smu.ca
- (v) For the IELTS:
IELTS Scheme Officer
University of Cambridge Local Examinations Syndicate
1 Hills Road
Cambridge UK
CB1 2EU

Students whose first language is not English should note Academic Regulation 23.

Notes:

Students from countries not mentioned in this section are required to have university-preparatory senior secondary or high school credentials. For complete details, please contact the Admissions Office.

International students on visas, student authorization, student permits, or minister's letter permits are advised that they are responsible for complying with the Immigration Laws of Canada. Students are responsible for keeping informed of revisions and addenda to these Laws.

3. Mature Admission

a. To qualify for admission as a mature student, the applicant must be at least twenty-two years of age and must show, through educational upgrading, work experience or community volunteer work, ability to benefit from university level education. Normally, mature applicants must have been out of school for at least five years.

The Division of Continuing Education holds regular information sessions to advise mature students on application procedures and required documentation. To attend please call 902-420-5492.

b. The application procedure for admission as a mature student is as follows:

(i) Application forms may be obtained at www.smu.ca/application or:

Admissions Office
Room 101, McNally Building
Saint Mary's University
Halifax, Nova Scotia, B3H 3C3
Telephone: (902) 420-5415
Fax: (902) 496-8100
E-mail: admissions@smu.ca

(ii) Send the completed application form with an application fee of \$40.00; a letter of intent which states personal and career goals, reasons for applying to the university and preparations for academic study; a resume detailing work experience and community volunteer work; and, if possible, a copy of high school marks.

(iii) Applicants who have registered for credit courses at another university or recognized post-secondary educational institution must request that institution to send official transcripts of their academic record directly to the Admissions Office.

(iv) All documentation must be received before the application will be considered.

4. Procedures for Other Admission Categories

a. Admission to Non-Degree Status (NDS)

(i) Individuals interested in taking one or more courses at the University without being registered in an academic program can seek admission as a non-degree status student. Such students must meet the stated prerequisites for the course(s) for which they register. Students may take no more than thirty (30) credit hours as non-degree students. If non-degree students wish to continue to study at Saint Mary's beyond thirty (30) credit hours,

they must formally be admitted to an academic program. Students who are subsequently admitted to academic programs from a non-degree status may count the university credit hours that they have earned as non-degree students. All courses attempted at the University will remain a part of the students' permanent records.

(ii) Under special circumstances and with the permission of the appropriate Dean, high school students may be admitted to enroll as non-degree students in Saint Mary's courses for which they have the necessary prerequisites.

(iii) Non-degree students must apply through the Admissions Office. A separate application is required for each academic year or summer session(s) in which the student is enrolled with this admission basis.

b. Admission as a Transfer Student

Students who have been enrolled in an academic program at another university should follow the regular procedure for admission to Saint Mary's through the Admissions Office. In order to be considered admissible, transfer students are normally required to have achieved a minimum average of C. If admitted, transfer students may receive advanced standing credit hour recognition in conformity with the principles and procedures stated in Academic Regulation 20. For all courses from non-Canadian post-secondary institutions, detailed course descriptions must be submitted before any advanced standing will be evaluated. Failure to report all institutions previously attended will result in dismissal from the University.

c. Admission as an Upgrading Student

Students who already hold a degree or professional certificate may enroll in a course(s) to upgrade their qualifications. 'Application Form B' is available at www.smu.ca/application or the Admissions Office and must be filed by the deadlines found above in 1a. Students are required to follow normal registration procedures. Such students must meet the stated prerequisites for the course(s) for which they register. For this admission category, a separate application is required for each academic year or summer session. The maximum number of courses in which a student is permitted to register under this admission category is thirty (30) credit hours. The Dean of the Faculty in which a course(s) is offered may authorize an additional course(s) over this limit.

d. Admission as a Student Auditor

Students who are interested in auditing a course (see Academic Regulation 2 below) are required to complete 'Application Form B' which is available at www.smu.ca/application or the Admissions Office and must be filed by the deadlines found above in 1a. Students are required to follow normal registration procedures and pay regular tuition fees. These students must meet any stated prerequisites for the course(s) for which they register.

e. Admission as a Visiting Student on a Letter of Permission

Students currently enrolled at another institution, who have letters of permission to take courses at Saint Mary's University for transfer of credit hours to their home institution, must complete 'Application Form B' which is available at www.smu.ca/application or the Admissions

Office and must be filed by the deadlines found above in 1a. Students are required to follow normal registration procedures. In addition, these students must file a Letter of Permission with the Admissions Office at Saint Mary's. Grades for all courses for which students register will be forwarded to the students' home universities. It is the visiting student's responsibility to provide Saint Mary's Admissions Office with the complete mailing address of his/her home institution. If this is not done, final grades cannot be sent. Saint Mary's shall not be held responsible for meeting the deadlines for submission of grades of other universities.

Note: All deadlines as promulgated in this publication, including the Calendar of Events, apply to all students regardless of their admission category.

5. Graduate Admission

Admission to a graduate program at the University is covered in Section 3 of this *Calendar*.

Note: At the time of initial application to a degree, diploma, or certificate program involving credit courses, each student is issued with a Saint Mary's University I.D. number. This number must be shown on all transactions with the University.

6. Entrance Scholarship / Bursary Program

Presidential and Santamarian Scholarships are awarded on the basis of:

- A very high aggregate score (as calculated by the Admissions Office). Successful candidates typically have a Scholarship average of 95% or above. Recipients of these awards will be determined by their overall placement in relation to other candidates.
- A **résumé**, which should comment on such things as involvement in community service, participation in student government, athletic achievement, extra curricular activities and volunteer and /or paid work.
- The Presidential/Santamarian Recommendation Form can be downloaded from the Saint Mary's University web site <http://www.smu.ca/scholarships> or obtained by telephoning the Admissions Office at 902-420-5415.
- **Students will be considered for these scholarships when all of the above information has been received on time.**
- **Presidential Scholarships** are valued at \$9,000 (CAD) and renewable for up to four years for a total of \$36,000 (CAD). Number of awards limited
- **Santamarian Scholarships** are valued at \$5,000 and renewable for up to four years for a total of \$20,000 (CAD). Number of awards is limited

International Baccalaureate Scholarship: Saint Mary's has shown its commitment to the International Baccalaureate Diploma program by developing a scholarship specifically for IB Diploma candidates.

An **International Baccalaureate Recommendation Form** is to be completed by the IB Coordinator after final

first semester (mid-year) grade twelve results are available. Diploma candidates will be considered for this scholarship once this form has been submitted to the Admissions Office, Saint Mary's University. Please fax no later than **March 15**. Fax: 902-496-8100

- Award available to both domestic and international IB Diploma candidates.
- Award valued at \$8,000 (CAD) per annum which is renewable for up to four years for a total of \$32,000 (CAD). Number of awards limited
- Awarded on the basis of overall IB marks ranging from 38-45; a résumé, which should include information on such things as involvement in community service, participation in student government and athletic achievement. In addition, the completed International Baccalaureate Recommendation Form must be submitted under separate cover, by the high school IB Coordinator.
- Recipients of this award will be determined by their overall placement in relation to other Diploma candidates. A candidate's overall ranking will be determined by the Admissions Office.
- A minimum grade point average of 3.8 is required for renewal of this scholarship.

The deadline for all Scholarship consideration is **March 15** (Only applications accompanied by supporting documentation are considered). Scholarships are announced no later than **May 15**

Entrance Scholarships: Saint Mary's University guarantees a minimum total scholarship offer to any high school graduate with a Scholarship Average of 80% and higher. If students apply by March 15 and their admission average falls within the following categories, they will receive a minimum Entrance Scholarship offer if they begin their studies in September.

- \$3,500 **Renewable Entrance Scholarships** are awarded to high school students with a scholarship average of 95% plus. The total value of this award over four years is **\$14,000 (CAD)**. The award will be continued during the recipient's undergraduate program provided the student maintains a minimum 3.67 grade point average (GPA) each year in a minimum of 30 credit hours. The number of awards offered each year is unlimited.
- \$2,000 **Renewable Entrance Scholarships** are awarded to high school students with a scholarship average of 90% – 94.99%. The total value of this award over four years is **\$8,000 (CAD)**. The award will be continued during the recipient's undergraduate program provided the student maintains a minimum 3.67 grade point average each year in a minimum of 30 credit hours. Should the recipient achieve a GPA of 4.00 or above in any academic year, the value of their award will be increased for that year. The number of awards offered each year is unlimited.
- 85% to 89.99% guarantees a minimum Entrance Scholarship of \$1,000 (CAD). The number of awards offered each year is unlimited.
- 80% to 84.99% guarantees a minimum Entrance Scholarship of \$500 (CAD). The number of awards offered each year is unlimited.

- Entrance Scholarships, valued at 50% of the above amounts, are also available for students who begin their studies in January. The number of awards offered each year is unlimited.

To calculate a Scholarship Average, Saint Mary's uses the Admission Average plus bonus points for enriched courses. Averages are calculated to two decimal points and are not rounded.

The deadline for **Entrance Scholarship** consideration is **March 15**.

Named Entrance Scholarship/ Bursary Awards

Saint Mary's University has a limited number of Named Entrance Scholarship/ Bursary awards. These awards are open to potential high school graduates. All applicants will be considered for these awards. Successful applicants will be offered the most appropriate award. Please note: The Entrance Scholarship/Bursary Application form is available online at www.smu.ca/scholarships

Named Entrance Scholarship/ Bursary Awards

The Bob Kelly Bursary in Commerce

Brother Stirling Scholarship

Captain Albert Eisnor Memorial

Chester Scholarship

The Coy Family Scholarship

Duncan W Lynch Memorial Scholarship

Elaine Leventhal Memorial Scholarship

Leadership Entrance Scholarship

Heather Ferguson Entrance Scholarship

The Kevin Cleary Memorial Scholarship

Laurie W Smith Memorial Scholarship

Leo R MacDonald Memorial Scholarship

Lions Club of Prince Edward Island

Maxwell A. Martin Memorial Award

Rose Marie (Belliveau) Abraham Scholarship

Nova Scotia Power Entrance Scholarship

Nicola Schwind Memorial Scholarship

The deadline for Named **Entrance Scholarship/ Bursary** consideration **March 15**.

For information on scholarships and admission status, please contact admission.status@smu.ca.

Please refer to the Student Awards & Financial Aid Programs for additional information on Scholarships and Bursaries in Section 6 (**Student Awards and Financial Aid Programs**) of this *Academic Calendar*.

Academic Regulations

Philosophy Behind Academic Regulations

Academic regulations exist to assist the students in academic matters; to delineate the terms of students' contract with the University; and to maintain the integrity of the University's academic programs. While regulations enable the system to operate smoothly and effectively, they also facilitate growth, development, and responsibility in students. Saint Mary's makes every effort to ensure that advice on academic matters is available to its students, but in the final analysis it is the students' responsibility to seek such advice.

The information, regulations, and guidelines contained in this section apply to all students at the University. Additional regulations pertaining to Masters' programs are in the Section 3 of the *Calendar*, while regulations pertaining to majors, honors, concentrations, and minors are found in Section 5.

Note: The University continuously reviews all of its academic regulations and hereby serves notice that significant revision(s) thereto may occur from time to time and will be duly promulgated officially.

Introductory Information

Glossary

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

Academic Audit (AA)	A computerized checking of courses completed against the requirements for a student's academic program. An important aid for advising students. Sometimes referred to as a degree audit or academic progress report. This audit produces an unofficial document. This web-based product is a powerful and important tool empowering students to be completely up-to-date as to their academic progress and to check out alternate academic program options.
Academic Year	The period immediately following Labour Day in September to and including Convocation Day in May of the following year. It is comprised of two academic sessions or semesters.

Academic Status	See "Year of Study" below.
Add and Drop Period	A designated timeframe during which students can add or drop courses for the current academic session without those dropped showing on their permanent academic record; sometimes referred to as a "change of registration period". See Academic Regulation 13.
Admission	Acceptance of an applicant as a student.
Advanced Standing	Credit hours granted for work completed at a post-secondary institution before admission to Saint Mary's University. See Academic Regulation 20.
Area of Concentration	The main subject area of study [used in the Faculties of Arts and Science undergraduate programs and for the Master of Business Administration Program].
Attendance Status	A student officially registered for at least eighteen (18) credit hours in a semester is considered to be "full-time", whereas a part-time student is registered for less than eighteen (18) credit hours in a semester. See Academic Regulation 1.
Audit	Formal registration for a course(s) for which academic credit hours are not sought or granted. See Academic Regulation 2.
Baccalaureate	Refers to an undergraduate degree awarded by the University upon successful completion of the requirements of a specific academic program.
Baccalaureate Service	An interfaith service traditionally held on campus prior to Spring Convocations.
Bursary	A monetary grant based on financial need. See Section 6

	of this <i>Academic Calendar</i> .		hours may be earned for only one of the courses.
Chairperson	Faculty member responsible for an academic area of study.	Cumulative Grade Point Average	A cumulative grade point average (CGPA) is calculated using all Saint Mary's grades. Withdrawals (W's) are not included in these calculations. See Academic Regulation 6.
Concentration	See "Area of Concentration" above.		
Co-operative Education (Co-op)	A method of learning in which students move between formal academic study terms on campus and work terms during which they are employed full-time by companies or institutions related to their academic field.	Dean	Also called Dean of the Faculty; the chief academic administrator of a Faculty.
		Degree Grade Point Average	A degree grade point average (DGPA) is calculated based upon the courses presented in fulfillment of the degree requirements.
Co-requisite	A course which must be taken concurrently with another course which lists it as a co-requisite.	Elective	A course not specifically required by a student's program of studies. Various types of electives exist, such as "free", "open" and "non-Commerce".
Course	A unit of study in a particular subject identified by a course title and a unique course number. The last digit of the course number designates the following: .0 – six (6) credit hours .1 – three (3) credit hours .2 – three (3) credit hours	Faculty	When spelled with a capital F, refers to an academic unit offering its own degree, diploma, and certificate program(s); when spelled with a small f, refers to instructors in a Faculty.
Credit Hours	A unit of academic value earned within a particular program. Six (6) credit hours are granted for each successfully completed full year course (designated .0 – e.g., ENGL 2307.0 and referred to as a six semester hour course); three (3) credit hours are granted for a successfully completed one-semester course (designated either .1 or .2 – e.g., ENGL 1201.1 or ENGL 1202.2 and referred to as a three (3) semester hour course). Credit hour values are used in the calculation of averages for academic standing and in the determination of the student's year of study or level within a specific academic program.	Full-time	See "Attendance Status" above.
		Grade	The letter indicating an instructor's evaluation of a student's work in a course. See Academic Regulation 5 (undergraduate) and Graduate Regulation 6 (graduate).
		Grade Point Average	A grade point average (GPA) is used to determine the standard of a student's academic performance. See Academic Regulation 6.
		Honors	The main subject area of study in a degree program, chosen in addition to or in lieu of a major(s). A student cannot pursue an honors program and a major or concentration in the same subject area.
Cross-Listed Courses	Courses which are listed under two different numbers in two different departments/academic units. Cross-listed courses may be taken through either department/ academic unit, but credit	Instructor	A member of faculty.

24 Academic Regulations

Letter of Permission	An official document issued by Saint Mary's to enable its own students to register for a course(s) at another post-secondary institution and to guarantee transfer of the credit hours for that course(s), if successfully completed, to the student's academic program. See Academic Regulation 21.		the course is housed and/or the instructor of the course.
Liberated Learning	Courses which enable students to see the spoken lecture displayed as text and receive speech recognition software generated lecture notes. Visit www.liberatedlearning.com to learn more about this technology.	Probation	A conditional status assigned to a student who has shown evidence of academic weakness. See Academic Regulation 7. A student on academic probation can be required to follow regular or special terms as delineated by the Dean or Associate Dean of his/her faculty.
Major	A formal, specific subject area of study within an academic unit as defined by its degree program.	Program Program Grade Point Average	An approved combination of courses in a subject area(s) which fulfils the requirements for a degree, diploma, or certificate. A program (major, honors, minor, concentration) grade point average (PGPA) is calculated based upon the courses presented in fulfillment of the program requirements.
Non Degree Status (NDS)	An admission status permitting a student to take a course although that individual has not been accepted in an academic program at Saint Mary's University. See Admission Regulation 4a.	Qualifying Year	Students may be required to complete one or more courses to qualify for admission to a graduate program.
Part-time above.	See "Attendance Status"	Registration	The process of officially selecting courses, labs, and recitations AND making the appropriate arrangements with the Financial Services Office for payment of all required fees. See the "Registration" component of Section 2 of the <i>Academic Calendar</i> .
Plagiarism	Described in detail in Academic Regulation 19(b).		
Preparatory Course	Nova Scotia Grade 12 equivalent course designed to prepare students for entry level course work and hence not counted toward any degree, diploma, or certificate. A preparatory course's number begins with zero (0).	Registration Advisory Unit	A special service available to all students requiring assistance with their registration. (See the Registration component of this Section of the <i>Calendar</i> , 1(b).
Prerequisite	A course for which credit hours must have been earned prior to registration in another course, lab, or recitation which lists it as a prerequisite. Students have the right to explore being admitted to a particular course for which they lack the stated prerequisite(s). Such permission must be sought and recorded in writing with the Registrar from the chairperson of the academic unit in which	Satisfactory Academic Standing Scholarship Semester	Maintaining a grade point average of at least 1.70 if an undergraduate; at least 3.00 if in a graduate program. A monetary award based on academic achievement. A term or period of instruction corresponding to one-half of the academic year; each semester lasts approximately fourteen weeks. The fall or

	<p>first semester extends from September to December; the winter or second semester, from January to April.</p>	<p>Upgrading Student</p>	<p>A student who already holds an undergraduate degree or professional certificate and who wishes to take an additional credit course(s) at Saint Mary's University. See Admission Regulation 4c.</p>
<p>Session</p>	<p>First Summer Session (mid May to late June) is also a session or semester as is the Second Summer Session (July to mid-August).</p>	<p>Visiting Student</p>	<p>A student from another post-secondary academic institution who has a Letter of Permission to register for a course(s) at Saint Mary's University.</p>
	<p>A formal, fixed period of time in a calendar year when classes are offered. There are three academic sessions each year, namely, the academic year (September to April) comprised of two semesters; the first summer session (early May to late June); and the second summer session (early July to mid August).</p>	<p>Withdrawal</p>	<p>A formal procedure set out within the regulations of the University for withdrawing from an individual course(s), or from the University entirely. See Academic Regulation 16.</p>
<p>Subject</p>	<p>Also called a discipline; a specific field of study, e.g., Accounting, Chemistry, History.</p>	<p>Year of Study</p>	<p>Attaining a degree, diploma, or certificate depends in part on earning credit hours for individual courses required in that academic program. However, progress may be measured in years or levels.</p>
<p>Summer Sessions</p>	<p>Periods of instruction normally lasting six to seven weeks during the months of May through August. Two summer sessions are offered each year – the First Summer Session from mid May to late June; the Second Summer Session from early July to mid August.</p>		<p>Advancement from one year (or level) to the next signifies students having earned credit hours in the number of courses normally specified on an annual basis for their academic program. The following are the credit hour totals required for each year of study.</p>
<p>Term</p>	<p>Same as "semester".</p>	<p>Year 1:</p>	<p>0 to thirty (30) credit hours</p>
<p>Transcript</p>	<p>An academic document issued by the Office of the Registrar which records all aspects of a student's registrations and grades obtained at the University. An "official" transcript is one which bears the official seal of the University and which is sent directly to another institution or official of an organization. "Unofficial" transcripts also may be issued to the student. See Academic Regulation 32.</p>	<p>Year 2:</p>	<p>thirty-three (33) credit hours to</p>
		<p>Year 3:</p>	<p>sixty (60) credit hours</p>
		<p>Year 4:</p>	<p>sixty-three (63) credit hours to</p>
		<p>Year 5:</p>	<p>ninety (90) credit hours</p>
			<p>ninety-three (93) credit hours</p>
			<p>to one hundred and twenty</p>
			<p>(120) credit hours</p>
			<p>one hundred and twenty-three</p>
			<p>(123) credit hours to one</p>
			<p>hundred and fifty (150) credit</p>
			<p>hours</p>
		<p>Explanation of Abbreviations</p>	
		<p>Accounting</p>	<p>ACCT</p>
		<p>Administrative Incomplete</p>	<p>AI</p>
		<p>Advanced Placement Certificate</p>	<p>AP</p>
		<p>Aegrotat Standing</p>	<p>AE</p>
		<p>Anthropology</p>	<p>ANTH</p>
		<p>Applied Research Project</p>	<p>ARP</p>
		<p>Arabic</p>	<p>ARBC</p>
		<p>Asian Studies</p>	<p>ASNT</p>
		<p>Astronomy</p>	<p>ASTR</p>
		<p>Astrophysics</p>	<p>ASPH</p>
<p>Transfer Credit</p>	<p>Credit granted for work completed at another post-secondary academic institution after admission and initial registration at Saint Mary's. See Academic Regulation 21.</p>		

26 Academic Regulations

Atlantic Canada Studies	ACST	Film Studies	FILM
Academic Audit	AA	General Business Studies	GBST
Audit	AU	Geography	GEOG
Biology	BIOL	Geology	GEOL
Business Administration	BUSI	German	GRMN
Certificate of Chinese Studies	CER	Global Business Management	GLBM
	CHST	Graduate Diploma in Criminology	G.Dip. (CRIM)
Certificate of German Language and Culture	CER		G.Dip.
	GLST	Graduate Diploma in International (IDST)	
Certificate of Human Resource Management: Management Option	CER	Development Studies	
	HRMC	Greek	GREK
Psychology Option	CER	Hebrew	HEBW
	HRMP	Hispanic Studies	HPST
Certificate of Japanese Studies	CER	History	HIST
	JPST	Human Resource Management Certificate - Management Option	HRMC
Certificate of Proficiency in French	CFRE	Human Resource Management Certificate – Psychology Option	HRMP
Certificate of Spanish Language and Hispanic Culture	CER	Human Resource Management (formerly Personnel and Industrial Relations)	PIR
Certified Management Accountant Program	CMA	Incomplete	IC
Chemistry	CHEM	Independent Study Program	INST
Chinese	CHNS	Information Systems	ISS
Classics	CLAS	Information Technology	IT
Commercial Law	CMLW	In Progress	IP
Communication	COMM	The Institute for Computational Astrophysics	ICA
Computing and Information Systems (formerly Data Processing Management – DPM); also the designation of specific courses in the Computing and Information Systems area, offered by the Department of Finance and Management Science.	CISY	International Baccalaureate Certificate	IB
Computing Science and Business Administration Major and Computing Science courses	CSCI	International Development Studies	IDST
Computing Science Major	CPSC	Irish Studies	IRST
Co-operative Education	COOP	Japanese	JPNS
Co-operative Education Program in Biology	COEB	Latin	LATN
Co-operative Education Program in Chemistry	COEC	Linguistics	LING
Co-operative Education Program in Computing Science	COES	Management	MGMT
Co-operative Education Program in Geology	COEG	Management Consulting Project	MCP
Creative Writing	CRW	Management Science	MGSC
Credit	CR	Master of Science (Applied Sciences)	MSc (APS)
Criminology	CRIM	Marketing	MKTG
Data Processing Management Major (now Computing and Information Systems – CISY)	DPM	Master of Business Administration	SMBA
Directed Independent Study	DIS	MBA Consulting Project	MCP
Economics	ECON	Master of Finance	MFIN
Education	EDUC	Master of Management – Co-operatives & Credit Unions	MMCC
Egyptian	EGYP	Mathematics	MATH
Engineering	EGNE	Philosophy	PHIL
English	ENGL	Physics	PHYS
English for Academic Purposes	EAP	Political Science	POLI
English as a Foreign Language	EFL	Prior Learning Assessment and Recognition	PLAR
English for Personal and Professional Communication	EPPC	Psychology	PSYC
English as a Second Language	EGSL	Registration Advisory Unit	RAU
English for Specific Purposes	ESP	Research Ethics Board (Saint Mary's)	REB
Environmental Studies	ENV5	Religious Studies	RELS
Executive Master of Business Administration	EMBA	Small Business/Entrepreneurship	SBE
Finance	FINA	Sociology	SOCI
Forensic Sciences	FRSC	Spanish	SPAN
French	FREN	Thesis Continuation	THE
		Test of Written English	TWE
		Withdrawal (without academic penalty)	W
		Women's Studies (undergraduate)	WMST
		Women's Studies (graduate)	GWST

Students, members of faculty, and administrative officers

concerned with academic matters are all expected to be familiar with the rules, regulations, and procedures of the University as published in this *Academic Calendar*. The University reserves the right to approve academic programs and timetables, and to control access to courses and individual classes. It is the particular responsibility of students to ensure that the courses which they take are appropriate for their academic program, involve no timetable conflicts, and collectively satisfy all the requirements of that program.

Note: Academic administrators may appoint designates to carry out functions and responsibilities delineated in these academic regulations.

1. Number of Courses in an Academic Session

a. Undergraduate Students

(i) Students must formally register for all courses. In the Faculties of Arts, Commerce and Science (excluding Engineering), the normal load in an academic session for a full-time undergraduate is fifteen (15) credit hours per semester; while in the Division of Engineering, eighteen (18) credit hours per semester constitute a normal full-time load.

Undergraduate students registered for at least nine (9) credit hours in a semester are considered to be full-time, while students registered for fewer than nine (9) credit hours per semester are part-time. During the same academic year it is possible for students to be full-time in one semester and part-time in the other.

(ii) Students who have earned at least thirty (30) credit hours at Saint Mary's may elect to take up to an additional six (6) credit hours in the regular academic year. Permission is not required for such an overload.

(iii) Students may take up to eighteen (18) credit hours during any one summer, i.e., May to August at Saint Mary's, on Letter(s) of Permission, or a combination of these.

b. Graduate Students

Graduate students must be admitted through the Faculty of Graduate Studies and Research and must formally register according to the guidelines delineated in Section 3 of the *Calendar*. Graduate students must maintain registration until completion of all requirements for the degree.

2. Auditing Courses

Students may audit courses but they must formally register as auditors in these courses. Auditors participate in all regular class activities, but are not expected to prepare formal assignments, write papers, or take quizzes, tests, or examinations. With the permission of the instructor, however, they may perform these activities and receive an informal evaluation of their work. Audited courses are not given credit hours or regular grades but the notation of AU is included on the students' official record. Within the normal time limits for changing courses (see 13b), students may request permission to change from regular registration status in a course to auditing status or vice versa.

3. Academic Advising

a. Although students are responsible for ensuring that they meet the requirements of their academic programs, the University makes every effort to provide assistance in the selection of courses and programs. Students who have already declared their major, area of concentration, honors, or minor will be advised by the Chairperson of the appropriate departments or their appointees. All other students should seek advice from the Dean, Associate Dean or Undergraduate Program Advisor for their Faculty. Students are strongly urged to familiarize themselves with the academic audit program in Banner. Excellent tracking of student's individual progress and "what if" scenarios can be readily obtained in visual or hard-copy format from this web-based program. This program is in final stages of development and will be available in Spring 2006.

b. Academic counseling is particularly recommended for the following students:

(i) all students who are on academic probation as defined in Regulation 7d;

(ii) all students who have previously incurred probationary status and who, upon the completion of any subsequent course(s), have not yet achieved a minimum cumulative grade point average of 1.70;

(iii) all students who do not attain a grade point average of at least 1.70 in any given semester;

(iv) all students who are resuming their studies after having been required to withdraw from the University because of academic weakness [see Regulation 7i (iii)].

4. Grading System

a. The final grade for a course will be based on the quality of a student's work including, where appropriate, essays and exercises, class tests, end of semester examinations, final examinations, reports, class participation, laboratory work, tutorial sessions, projects and field work.

b. Instructors must inform students in writing of the grading system to be used in each of their courses. The written statement must include the relative weight which will be given to class and/or laboratory participation, examinations, tests, written assignments and other means of evaluation. The statement must also show how these evaluations will be used to determine the final letter grades. This detailed grading system for the course must be given to the students **ON THE FIRST DAY OF CLASS IN THAT COURSE**. Subsequent changes to this system must also be made available to students in writing. A copy of the grading system and any subsequent changes to it must be placed on file in the office of the Dean of the Faculty at the time when they are distributed to the students.

c. Instructors must also inform students in writing on the first day of class of any "in-class" test which will be scheduled outside of the regular instructional hours of the course.

5. Undergraduate Rating, Grades and Grade Points

The undergraduate grading system was revised prior to 1 September 1997 and these revisions were made applicable to all students registered for undergraduate credit courses from 1 September 1997 onward. A number of the University's academic regulations had to be revised in conjunction with these revisions to this grading system.

The rating of undergraduate students' performance is given as shown below in equivalent grades, grade points, and percentages.

Grades	Grade Points [six (6) credit hours]	Grade Points [three (3) credit hours]	Percentage	Rating
A+	4.300*	2.150*	80-100	Excellent
A	4.000	2.000		
A-	3.700	1.850		
B+	3.300	1.650	70-79	Good
B	3.000	1.500		
B-	2.700	1.350		
C+	2.300	1.150	60-69	Satisfactory
C	2.000	1.000		
C-	1.700	0.850		
D	1.000	0.500	50-59	Marginal Pass
F	.000	.000	0-49	Failure or withdrawal after deadline (see 16 below)
IP				In Progress (Applicable ONLY for undergraduate honors courses.)

*In November 1997, the Senate of Saint Mary's University voted to have the A+ grade carry 4.30 grade points, retroactive to I Summer Session, 1988. All past decisions on academic matters, such as academic probation/requirement to withdraw, placement on the Dean's List, qualifications for graduation, academic distinctions, and scholarships, shall not be affected.

b. The following grades shall be given when appropriate but will not be calculated in the grade point average:

Aegrotat standing (see No. 12)	AE
Authorized withdrawal from course	W

(see 16a below)

c. The minimum passing grade is D (or its equivalent). Students should be aware, however, that a grade of D (or the equivalent) is regarded as a marginal pass and therefore carries negative connotations. For example, many programs require a grade higher than "D" in an introductory course in

order to declare a major.

d. Students' attention is directed to the fact that those courses carrying double numbers, i.e., HIST 4517.0 (6617.0) will require additional work and a higher level of academic performance from students registering for the higher number. If students are unsure about the requirements, they should check with the faculty member offering the course.

e. Grades for courses taken at other institutions for which advanced standing or transfer credit is given are not included in calculations for grade point averages or in calculations for determining awards and distinctions.

f. A temporary grade of IP (in progress) may be assigned by the instructor with the Dean's official concurrence in those instances where students do not complete on time the work in honors courses and theses. The IP grade will not attract any grade points and therefore will not be calculated into any grade point averages. If an IP grade has not been changed into a real grade six months from the last day of classes in the semester in which the course was taught it will automatically be converted to a failing grade of "F". The change from IP being a permanent grade with no impact on calculations of grade point averages to a temporary grade became effective on 1 September 2001 and is not retroactive.

g. The maximum time limit permitted for a change of final grade is six months from the last day of classes in the semester. Except for the changing of an already approved "incomplete" to a real grade, a grade change must be approved by the Dean of the Faculty in which the course is offered.

h. In cases where through no fault of the student, grades have not been received and processed by the deadline stipulated by Senate, a temporary grade of AI ("administrative incomplete") will be assigned but will not be included in the calculations of grade point and cumulative grade point averages. This temporary grade of AI is assigned by the Registrar.

i. Once a final grade has been submitted to the Registrar, supplementary examinations or any additional assignments for the purpose of changing that grade are not permitted.

6. Grade Point Average

a. Each letter grade is given a grade point equivalent as described in 5a above. A grade point average (GPA) is calculated by dividing the number of grade points by the number of equivalent 6 credit hour courses. Grade point averages may be calculated for a semester, year, degree, program or cumulatively. Common grade point averages are described below.

b. The cumulative grade point average (CGPA) is based upon all courses taken for credit hours in any Faculty at Saint Mary's other than those for which grades of AE have been given. Courses for which grades of F have been given are included in the calculation of the grade point average

even if such courses are subsequently retaken and passed.

c. A degree grade point average (DGPA) is calculated based upon the courses presented in fulfillment of the degree requirements. Since courses without passing grades (W, F, IC, IP) are not used to fulfill degree requirements, they are not included in the DGPA. In the case of a repeated course, the most recent grade is included. Grades for courses in excess of degree requirements are not included.

d. A program (major, honors, minor, concentration) grade point average (PGPA) is calculated based upon the courses presented in fulfillment of the program requirements. Since courses without passing grades (W, F, IC, IP) are not used to fulfill program requirements, they are not included in the program GPA. In the case of a repeated course, the most recent grade is included. Grades for courses in excess of program requirements are not included.

e. Grades for courses taken at other institutions for which advanced standing or transfer credit is given are not included in calculations for a grade point average, a cumulative grade point average, or in calculations for determining awards and distinctions.

7. Standing Required

a. The regulations governing continuance in a program are those in effect at the time student's first register in that program, except as provided below.

b. In the case of students readmitted after an absence of five or more years, or after having been required to withdraw for academic weakness, or in the case of students transferring to a different academic program, the regulations in force at the time of readmission or transfer apply. In addition, the Dean may attach specific and binding conditions to the students' performance to ensure that the normal standards of the degree requirements are met.

c. Good Standing

(i) Student are deemed to be in "Good Standing" if they have achieved a minimum cumulative grade point average (CGPA) of at least 1.70.

(ii) To qualify for a Bachelor's degree in Arts, Science, or Commerce a student must achieve a minimum degree grade point average (DGPA) of 1.70. Note: A higher DGPA may be required for some programs (e.g., honors).

(iii) To qualify for a Diploma in Engineering or a Certificate students are required to achieve a program grade point average (PGPA) of at least 2.00. Note: Individual programs may require a higher PGPA.

(iv) To earn a Master's degree, a student must achieve a DGPA of at least 3.00.

d. Academic Probationary Status

Academic Probationary status is incurred:

- (i) if, at the end of any academic year (i.e., on or about 1 May), a student has attempted a minimum of 24 credit hours with a CGPA of at least 1.00 but less than 1.70;;
- (ii) if on readmission after being required to withdraw because of academic weakness [see (i) below];

(iii) if students are required to confer with their academic advisor and fail to do so or fail to make appropriate efforts to resolve problems which are affecting their academic performance.

e. Eligibility to Continue

Students in Good Standing are eligible to continue.

Students on academic probation are eligible to continue if at the end of any academic year (i.e., on or about 1 May) their annual GPA is at least 1.70

Notes:

- (a) Transfer to a different Faculty does not remove probationary status.
- (b) Unless the permission of the Dean of the Faculty has been obtained in advance, courses taken at another educational institution cannot be used to remove probationary status. This is normally not granted.
- (c) All academic probationary notations are retained permanently on students' academic records.

f. Required Academic Counseling

Students whose academic performance at the University is unsatisfactory may be required by the Dean of his/her Faculty to confer with their academic advisor.

g. Required Withdrawal

At the end of each academic year (i.e., on or about 1 May), students will be required to withdraw for 12 months if:

- (i) they have attempted at least 24 credit hours with a CGPA below 1.00;
- (ii) they are on probation and do not satisfy the requirements for continuance;
- (iii) they are on probation and fail to comply with any formal conditions governing their probation.

Students who are required to withdraw from the University for both academic and non-academic reasons may be denied the right to return to Saint Mary's.

Note: No credit hours will be given for any course(s) taken at another institution during the period of required withdrawal.

h. Admission after Required Withdrawal

(i) Students who are not eligible for readmission to their former institution are normally not admissible to Saint Mary's University.

(ii) Students who have been required to withdraw from Saint Mary's, and who wish subsequently to be readmitted, must apply to the Admissions Office by the deadlines stipulated above in Admissions Regulation 1a.

(iii) If readmitted, students will be placed on academic probation and must fulfill those terms delineated by the Dean of the Faculty in which the student is enrolled and outlined in their letter of readmission. In agreeing to readmit a student, the Dean has the discretionary authority to set specific terms of special probation unique to each student. Students failing to satisfy all the terms of readmission may be denied the right to further registration. [See also Regulation 7b.]

30 Academic Regulations

Note: Students are advised that all communications concerning academic probationary status and dismissal are sent to the permanent address on file in the Registrar's Office, unless an alternate summer address has been received by the promulgated deadline. Therefore students are urged to ensure that this address is both accurate and complete.

8. Examinations

a. At the end of a Fall or Winter semester, at the discretion of the Department concerned, a final test or examination may be held during the special periods set aside for this purpose in December and in April.

b. All final tests and examinations held during the above periods are scheduled by the Registrar. The maximum time allowed for each examination is three hours.

c.(i) In a six (6) credit hour course, no single test given in a regularly scheduled class period (50 minutes or 75 minutes) shall contribute more than 20% of the overall evaluation for that course.

(ii) In a three (3) credit hour course, no single test given in a regularly scheduled class period (50 minutes or 75 minutes) or laboratory/recitation session (up to 3 hours) shall contribute more than 35% of the overall evaluation for that course.

(iii) Test and examinations individually or collectively contributing more than 10% of the overall evaluation of the course are not permitted to be held during the last fourteen calendar days preceding the end of classes. End of term tests and examinations are to be held during the final assessment period as specified in sections, 8a. and b.

d. To be eligible to write any type of test or examination in any course, students must be properly registered in that course. Students must write all such tests or examinations at the designated times and in the designated places.

e. Students are responsible for knowing the date, time and location for writing each of their formal examinations. Students are responsible for ensuring they have up-to-date schedules. This information is posted on Banner Self Service with the student's schedule. While this is accurate when viewed/printed, it is subject to revision without any prior notice; hence students are responsible for ensuring they have up-to-date schedules. Missing an examination for reasons of misreading or misunderstanding the date, time, and location does not constitute grounds for a "special test or examination" or for rescheduling the test or examination.

Students are required to present their valid Saint Mary's University student identification cards at all tests and examinations for possible verification of their photographs or signatures.

f. The University acknowledges that due to the pluralistic nature of its community, some students may, on religious grounds, require alternative times to write tests and examinations. Accordingly, a student who requires an alternative test or examination time on these religious grounds should consult with the Dean of the Faculty in which the

course is offered regarding alternative arrangements. Such a request must be made in writing within one week of the announcement of the test or examination date.

g. Supplementary examinations are not offered.

h. For those formal examinations written in The Tower, the Vice President, Academic and Research, appoints a Senior Invigilator for each time slot from among the members of faculty whose examinations are being written in that particular venue.

9. Evaluations

a. At the end of each semester, instructors must submit to the Registrar, on the forms provided, their evaluations of all students registered in their courses. For full courses (i.e., designated .0), interim grades will be submitted at the end of the first semester and final grades at the end of the academic year. The time frames for the submission of mid-year and final grades to the Registrar are:

(i) in the case of courses in which no formal examination was scheduled by the Registrar within the period designated by Senate for formal examinations, one week from the beginning of the examination period;

(ii) in the case of courses in which formal examinations were scheduled by the Registrar within the period designated by Senate for such examinations, five days from the day on which the examination was written; and

(iii) the cases of courses taught in Summer Sessions, grades are due in the Registrar's Office no later than one week from the last day of instruction in the course.

Students have the right to expect their grades to be submitted by these deadlines in conformity with the faculty members terms of appointment.

b. First semester Grade Report forms are not produced.

c. As soon as possible after the conclusion of the academic year and each summer session, Grade Report forms showing the final grades for all courses in which students were registered are posted online. Please note that the release of transcripts, both official and unofficial, at the end of an academic year can take place only after all grades for all students have been received and processed as well as all assessments for academic probation and required academic withdrawal have been completed.

d. In the case of courses taught over the first three weeks of a summer session, final grades will not be posted outside the Registrar's Office. Grades will be posted online as soon as possible after the completion of that complete summer session. Transcript requests for such courses cannot be honored until a particular summer session has been completed in its entirety.

e. Final grades are withheld from students who have money owing to the University or who have either money or books owing the University Library system.

f. Grades given at the end of a semester shall not be made known to students except by the Registrar. Under the FOI-

POP legislation, it is not legal for members of faculty to post grades in any form whatsoever.

g. Grade changes must be approved by the Dean of the Faculty in which the course is offered **before** they can be accepted for processing by the Registrar. Reason(s) for the change(s) is required at the time of submission.

10. Special Examinations

a. A special examination may be arranged:

- (i) if students present a legitimate reason, acceptable to the Dean of the Faculty, for not having taken a final examination on the scheduled date; or
- (ii) if students have failed a course in exceptional circumstances which the instructor and Dean of the Faculty are satisfied justify a special examination being given; or
- (iii) if the Committee on Academic Appeals has made a judgement that a special examination be given.

b. The standard grading system (see Academic Regulation 4) will be followed.

c. Special examinations will be scheduled by the individual faculty member at a time mutually convenient to the instructor and student. Except in the case of a (iii) above, a pre-paid processing fee of \$50.00 for each examination will be charged. This fee is to be paid to the Student Accounts Office prior to the examination being written.

d. The Dean will notify the Registrar officially that permission has been given for a special examination. Before the examination has been written, the student will present the Registrar with evidence that the mandatory administrative fee of \$50.00 per examination has been duly paid. [See subsection (c) above.]

11. Academic Appeals

Students who have good reason to believe they have been subject to mistaken, improper or unjust treatment with respect to their academic work have the right to appeal to the Committee on Academic Appeals. An appeal must be based on solid evidence and not merely on injured feelings. This Committee's jurisdiction extends only to individuals currently enrolled at the University or enrolled during the previous academic year and required to withdraw, (i.e., the Committee's jurisdiction does not apply to individuals whose application for admission to a program at the University has not been accepted). Appeals shall be governed by the following procedures:

a. Appealing of Final Grades

The only grades that may be appealed are official final grades. Students should be aware that when a grade appeal is launched, the grade can be raised, lowered, or remain unchanged.

(i) Students who wish to appeal a grade must first consult the instructor concerned within one month of receiving the grade and, if unsatisfied, should then consult the appropriate Chairperson and Dean. If the problem is still unresolved, students may forward the appeal to the Committee on Academic Appeals. This must be done in writing, through

the Registrar, within three months from the last day of the semester in which the course is taken. This appeal statement must contain specifics as to when the instructor, the Chairperson, and the Dean were consulted, together with any other information the student considers relevant. A form to launch an appeal is available from the Registrar and students are strongly encouraged to use this.

- (ii) It is the responsibility of students and instructors to provide the Committee with all relevant available material on which the grade was based, such as examinations, tests, exercises, papers, reports and other graded material.
- (iii) The Committee will normally appoint two qualified examiners to review the evidence presented and reconsider the grade. The examiners will submit their report and the evidence reviewed to the Chairperson of the Committee.
- (iv) On the appeal for a change of grade, the decision of the Committee shall be final.

b. Other Appeals

On appeals other than those for a change of grade, the procedures shall be as follows:

- (i) Normally within one month of the event or the decision being received by the student, the student shall submit the appeal in writing and direct it to the Committee on Academic Appeals through the Registrar.
- (ii) The Chairperson of the Committee on Academic Appeals shall forward a copy of the appeal to the Dean of the appropriate Faculty, and, if relevant, to the Chairperson of the Department and the instructor.
- (iii) On 5 May 1993, the Academic Senate of the University passed an Enabling Motion which reads in part "that the Executive Committee of Senate [be] empowered to deal with all appeals concerning graduation which may be made prior to Convocation." Procedurally, these appeals are made to the Registrar.

c. Decision

If possible, within one month of receiving any appeal under (a) or (b) above, the Committee shall render and communicate its decision through the Registrar to all parties concerned. Pending possible further appeal, the Committee will retain the evidence presented to it for a period of six weeks after rendering its decision.

d. Appeal of Committee's Decision

Except in the case of an appeal for a change of grade, students shall have the right to appeal an adverse decision to the Executive Committee of Senate. Such an appeal shall be governed by the following procedures.

- (i) Within one month of receiving the decision of the Committee, students shall submit their appeal in writing to the Secretary of Senate who shall forward the appeal together with all previously considered evidence to the Executive Committee of Senate for its consideration.
- (ii) Within one month of receiving the appeal, the Executive Committee shall render and communicate its decision through the Secretary of Senate to the Registrar, who in turn shall communicate the decision to the student and to the Committee on Academic Appeals and take any further required action.
- (iii) The decision of the Executive Committee shall be final.

e. Fee

All appeals to the Committee on Academic Appeals must be accompanied by a payment of a \$30.00 fee. Further appeal under (d) above requires an additional payment of \$30.00. In the event of a decision favourable to the appellant, all payments will be refunded.

Notes: (a) Appellants may ask or be asked to appear before the committee(s) hearing their appeal.

(b) Members of a committee cannot participate in the hearing of an appeal arising from an action to which they were a party.

12. Credit Hours without Final Examination

Students who, for medical or compassionate reasons, have been unable to write the final examination in a course but who have satisfactorily completed the other requirements, may apply to the Dean of the Faculty for credit hours in that course without examination. They must support their request with adequate evidence. If the Dean permits the request to go forward, instructors involved will be asked to assign an estimated final grade. If the instructors judge that the student should be given credit hours for the course but are unable to determine a precise grade point average, then they will assign the grade of AE (aegrotat). This grade will not be included in computing the grade point average. Students may apply for aegrotat standing for a maximum thirty (30) credit hours during their undergraduate program. This grade of AE is available only as a final grade and therefore cannot be awarded at mid-year for six (6) credit hour courses [i.e., those designated .0].

13. Course Changes

a. At the beginning of each academic session, a period of time is provided for students to alter their registration without the change being noted on their permanent records. During these periods, and subject to availability, a course (or section of a course), lab, or recitation may be added, dropped or exchanged for another.

b. For all these changes the period of time required from the first official day of classes is eight working days (excluding Saturdays) during the academic year; five days in a summer session.

c. Changes can be effected only through Banner Self-Service. Consult the Calendar of Events for specific dates.

d. Only in extraordinary cases will a Dean or Associate Dean authorize any course changes after the time deadlines. Special forms for this purpose are available **only** from those with this signing authority.

Warning: Students are responsible for all required work in the course regardless of the date of their entry into the course. Students can expect reasonable accommodation if they are impacted negatively by late registration and/or course changes. Also, tuition fees are charged from the first day of classes, even when a student registers late.

e. Students cannot be registered in a course, lab, or recitation which has reached its maximum enrolment and therefore is regarded as being full. In exceptional circumstances, the course instructor or heads of academic units (i.e., chairperson, subject area representatives, directors of divisions, or area coordinators) may authorize a student to register in a closed course, lab, or recitation. This must be done through an over-ride on the student information system. The student may then register in the course. Permission to register does not mean that the student is registered.

14. Declaration or Change of Major, Area of Concentration, Honors, or Minor

a. In order to declare or change a major, area of concentration, honors, or minor, students must file a Declaration of Major form with the Registrar. This form must have been signed by the Chairperson of the Department in which the student has been authorized to pursue a major, area of concentration, honors, or minor. Students are strongly urged to declare their major, area of concentration, honors, or minor before registering for their final sixty (60) credit hours and before 1 June. Declarations filed from 1 June to 15 September will not affect the student's category and priority for registration purposes in that particular year.

b. The regulations governing the major, area of concentration, honors, or minor program will be those in effect at the time of declaration or change.

c. Students are advised that general regulations governing majors, areas of concentration, honors, or minors are found below in subsection (d) of this regulation, and also in Academic Regulations 20 and 21; specific Faculty regulations are found in Section 3 of this *Calendar*; and specific departmental and subject area regulations are found in the relevant parts of Section 5. Students should check carefully because minors are not available in all subject areas.

d. Commencing on 1 September 1997, the following regulations govern a student's minor:

- (i) Ordinarily a student can declare only one minor. That can be extended to two with the permission of the Dean (or designate) of the Faculty or if the student is enrolled in the Bachelor of Arts Program with a Double Arts Concentration.
- (ii) A minimum program grade point average of 2.00 is required for courses designated for a minor program.
- (iii) Consistent with individual faculty requirements, a range of courses between twenty-four (24) credit hours and thirty (30) credit hours shall be instituted for each academic unit which offers a minor program.
- (iv) Within each minor program, a minimum of 50% of the courses **must** be earned at Saint Mary's University. Students should consult the *Academic Calendar* references for the faculties (Section 3) and the academic units (Section 5) for any additional and specific requirements for minor programs.

e. Students must file a Change of Registration form indicating the dropping of their major, area of concentration, honors, or minor if they no longer intend to pursue it. Otherwise it will be assumed to be valid and the student will be expected to complete the requirements in order to qualify for graduation.

Note: Students are advised that possession of the minimum qualifications does not guarantee admission to a particular academic program. Limits to the number of students who can be in a particular program at any one time exist and depend very much on the number of faculty members available in a particular academic unit.

15. Procedure for Changing Faculty

In order to register an official Change of Faculty, students must file with the Registrar, a Change of Registration form which has been signed by the Dean of the Faculty into which the students intend to transfer. Upon receipt of such a Change of Registration form, the Registrar, on the advice of the Dean of the Faculty, will inform the students of the number of credit hours being transferred to their chosen academic program. Students should be aware that a change of Faculty is not automatic and will **not** be processed during registration periods; therefore students are strongly encouraged to file for a change of faculty by 15 June. Changes made from 15 June to 15 September will not affect the student's category and priority for registration purposes. Students on academic probation at the time of authorized transfer of Faculty or academic program automatically remain on academic probation.

Note: Students are advised that possession of the minimum qualifications does not guarantee admission to a particular academic program. Limits to the number of students who can be in a particular program at any one time exist and depend very much on the number of faculty members available in a particular academic unit.

16. Withdrawing from a Course

a. In the case of three (3) credit hour courses, after the time limits indicated in 13b above have expired, and provided the three (3) credit hour course still has one quarter of the instruction time remaining, students may withdraw from the course. In the case of six (6) credit hour courses, after the time limits indicated in 13b above have expired, and providing the tenth day of classes in the second semester has not passed, students may withdraw from the course. In such cases a grade of W will automatically be awarded. Students withdrawing from a course after these time limits automatically receive a grade of F.

b. A student who registers for a course and does not withdraw is considered to be taking the course, and if no grade is assigned by the instructor, a grade of F will be recorded automatically. Non-attendance at class or non-payment of tuition fees does not constitute an official withdrawal from a course, lab, or recitation for which the student initiated registration procedures.

c. For purposes of registration, sections of courses, labs, and recitations are considered the same as individual courses; hence academic regulations, procedures, and deadlines apply to all types of changes.

d. Students are advised that if they completely withdraw from all their courses prior to the end of the add/drop period, a \$50.00 processing/administrative fee will be levied.

e. Students who are granted a complete retroactive withdrawal (regardless of the number of courses involved) will be charged a \$50.00 processing/administrative fee.

Notes: (i) Students must withdraw through Banner Self-Service. Alternatively, a letter of withdrawal can be forwarded to the Registrar which must include the student's name, address, Saint Mary's I.D. number, and the courses (with section numbers if applicable), labs, and recitations involved in the withdrawal. Students must initiate the withdrawal from all courses, labs, and recitations. The automatic withdrawal from courses because of the withdrawal from another course which is a stated prerequisite does not occur. This same principle applies when students fail a course which is a prerequisite for another for which they have already registered. In these instances, students must initiate the withdrawal from the course(s) for which they lack the stated prerequisite. (ii) Students should note that the deadlines for academic withdrawal differ from those for financial adjustment and possible refund of tuition and related fees.

17. Retaking a Course

a. Students may retake any course. Although all grades, including failing grades, count in computing grade points for the year, each course counts only once as credit hours in the academic program.

b. In the cases where courses have been renumbered, changed in level, or where a six (6) credit hour course (formerly referred to as a "full course") has been split into two three (3) credit hour courses (formerly termed "half courses") or vice versa, a student who received credit hour recognition for the original course is not entitled to repeat the course in its new format or on its new level for additional credit hour recognition.

c. Students will not ordinarily be given credit hours for a course taken at another educational institution which they have already taken and failed at Saint Mary's.

18. Withdrawal for Academic Reasons

Students whose participation, work or progress is deemed to be unsatisfactory may have their registration terminated and be denied the right to continue at the University by the Dean of their Faculty.

19. Academic Responsibility

NOTE: Revisions to this regulation are pending.

a. University students are expected to have a reasonable measure of self-discipline and maturity. While the University's teaching resources are available for help and guidance, and instructors and staff will make every effort to assist students with academic or other problems, the final responsibility for success or failure in academic studies rests with the students.

At times there may be considerable pressure to achieve high grades. One may be tempted to obtain grades by dishonest means. The integrity of the University and of the degrees it awards is compromised by practices such as cheating and plagiarism. The University does not condone such acts under any circumstances and will take appropriate disciplinary action.

b. Plagiarism

Plagiarism is the presentation of words, ideas or techniques of another as one's own. Reference to or appropriation of another's work whether by direct quotation or paraphrase must be acknowledged by proper citation. When in doubt, one should seek the advice of the instructor before submitting the work. The above definition of plagiarism is not restricted to literary works and applies to all forms of information or ideas that belong to another (e.g., computer programs, mathematical solutions, scientific experiments, graphical images, or data). The University's sanctions on plagiarism [as delineated below in subsection (e)] are designed to address a most serious problem in post-secondary educational institutions. To that end, therefore, Saint Mary's University has assumed a pro-active stance and has a Sub Committee of the Senate's Quality of Teaching Committee to examine all aspects of plagiarism and to recommend pro-active measures to raise awareness and educate students and faculty members alike on this very serious problem area. During the 2002-2003 academic year, a *Faculty Handbook on Academic Integrity* was published by this Task Force and is still available.

Submission of the same piece of work for credit hours in more than one course is normally not permitted. The approval of the instructors of the courses involved must be obtained in advance.

c. Examinations

Cheating is the attempt to secure a grade by unethical means. Knowingly assisting someone to cheat is itself cheating. Cheating would include such practices as:

- (i) arranging for someone to impersonate oneself at an examination or the impersonation of another at an examination;
- (ii) requesting, providing or accepting unauthorized assistance on a test;
- (iii) possession of unauthorized materials at a test;
- (iv) unauthorized procurement of a copy of an exam.

Anyone observed committing one of the above offences is presumed guilty of cheating unless the student can establish his/her innocence.

d. Other

It is an offence to falsify any academic record or to use a falsified record. Notice is hereby provided that documents in a student's official file may be examined and routinely verified. Evidence of falsified or misleading documents will result in an investigation which in turn, may lead to disciplinary action including the possibility of dismissal from the University. The University reserves the right to share this information with the members of the Association of Universities and Colleges of Canada (A.U.C.C.).

It is an offence to tamper with University library materials or computer system resources in any way which would deprive others of their use. The unauthorized copying, reading or use of programs or files is not permitted.

e. Sanctions

Usually, on the first offence of cheating or plagiarism, a mark of zero will be assigned to the work in question. The student will not be permitted to withdraw from the course. The instructor will inform the student, Deans of the Faculty in which the student is registered and/or the Faculty in which the course is taught, and Registrar, in writing, of the offence.

In the event of a second offence, or serious first offence, the University may impose one or more of the following sanctions:

- (i) a grade of F in the course;
- (ii) a record of the offence on the student's transcript;
- (iii) suspension from the University;
- (iv) dismissal from the University; and/or
- (v) revocation of degrees, diplomas or certificates.

Withdrawal from a course prior to the discovery of the offence does not restrict the University's right to take action.

Further information is found below in the *Student Discipline* sub-section of Section 8. Especially to be noted is subsection c: Authority of the President of the University.

20. Advanced Standing

a. University and Other Post-Secondary Institutions

After an official transcript has been received by the Registrar, and providing the students have identified the subject area(s) in which they intend to major or declare an area of concentration, students transferring from other recognized universities or post-secondary institutions to an academic program at Saint Mary's may be given advanced standing credit hours, if appropriate, in consultation with the Dean of the Faculty. To obtain a first baccalaureate degree or a diploma, the student must successfully complete a minimum of 50% of the credit hours required for their degree, diploma or certificate program at Saint Mary's. Among these credit hours, students must complete a minimum of 50% of the credit hours required for the major, honors or concentration at Saint Mary's. Note that the equivalency of courses conducted at other institutions is at the discretion of the Dean of the Faculty.

Notes:

(a) A request for advanced standing will not be considered after one year from the date of the student's first registration in an academic program at Saint Mary's.

(b) Advanced standing will be given only for courses with satisfactory grades as required by the relevant Saint Mary's program. In May 1995, Saint Mary's University signed the Pan-Canadian Protocol on Transfer Credits. As a result, students are able to transfer all first and second year courses which they have passed (even with a 50 or a D grade) to their academic program at Saint Mary's. In doing so, however, the clearly delineated regulations for graduation and entry into specific courses and programs remain as stated in this *Academic Calendar* and will not be adjusted to accommodate these transfer credit hours from other post-secondary institutions. In short, therefore, students who have courses transferred in accordance with this Protocol may not always be able to apply them to their particular academic program(s). Effective 1 September 2001, all courses regardless of their level for which students received a passing grade [D (or equivalent) or higher] will be accepted for advanced standing credit hours. However, the Deans have the authority to stipulate a minimum grade which must have been attained to transfer a particular course. This regulation will not be applied on a retroactive basis. In graduate programs courses with grades of B- or lower will not be recognized for transfer purposes.

(c) Credit will not automatically be recognized for university courses completed more than ten (10) years prior to the students' return to University study. The Dean's assessment of the number of credit hours that students must complete to satisfy their academic program is final.

(d) Students receiving advanced/transfer credit hours are advised to consult carefully Academic Regulation 29 concerning the minimum number of credit hours at Saint Mary's University required to qualify for a distinction.

(e) On the formal Advanced Standing Evaluation Form and on the Letter of Permission to Transfer Course Form, the coding for courses for which there is no specific Saint Mary's University equivalent course is as follows:

- 1st 2 digits = course level
- T = transfer credit
- 4th digit = number of credit granted in this particular subject and level.
- FRCL = free elective
- NCEL = non-Commerce elective
- Example: 33T2 = a second 3000-level credit recognized.

b. Prior Learning Assessment and Recognition (PLAR)

PLAR recognizes learning acquired outside post-secondary institutional settings when that learning is comparable in scope and extent to University courses. Persons applying for PLAR for advanced standing are required to document that learning to the satisfaction of the academic unit in which the credit is sought and have it approved by the Dean of the Faculty in which the unit is

housed. For further information contact the Division of Continuing Education.

21. Transfer Credit Hours

a. While registered at Saint Mary's University, students may be authorized by the appropriate Dean to take a course(s) at another academic institution for transfer credit hours to an academic program at Saint Mary's. Students seeking such permission must apply to the Registrar in writing. The letter of application should state why the student wishes to take the course at another institution, how the requested course fits into the student's academic program, and whether it has been determined that no equivalent or other suitable course is available at Saint Mary's University. A full description of the course(s) for which transfer credit hours are requested must be included with the letter to the Registrar. The description from an academic calendar will suffice. The Registrar will notify the students of the Dean's decision and, if permission has been granted, will forward a Letter of Permission directly to the institution at which students are permitted to study. Students are responsible for completing the proper application and registration procedures at the designated institution. These same procedures apply to summer session courses.

b. Students who are permitted to take a course(s) at an institution other than Saint Mary's by means of a Letter of Permission are responsible for paying all appropriate fees to the institution at which they are taking the course(s). The only exception is a few formal exchange programs, details of which are available from Financial Services. These include, but are not limited to, the New England-Nova Scotia Student Exchange Program, exchange program with the University of Glasgow (Scotland), and the Canadian Universities Student Exchange Consortium (CUSEC).

c. In cases where the University has entered into a special arrangement with another educational institution for shared instruction in a particular program, the normal application and registration procedures will be followed.

d. In the case of distance education courses (including those by correspondence), the normal procedures for transfer credit hours are to be followed. In addition, proof must be presented that the institution offering the correspondence course also recognizes it for credit hour purposes toward an academic program.

e. Before transfer credit hours can be considered, students must have the institution concerned send to the Registrar an official transcript of the work undertaken.

f. Effective 1 September 2001, all courses which a student receives a passing grade [D (or equivalent) or higher] on Letter of Permission will be accepted for transfer credit hours. However, the Deans have the authority to stipulate a minimum grade which must be attained to transfer a particular course. This revision to this regulation cannot be applied on a retroactive basis.

g. Students should also note that in some departments a grade of C or higher is required if the course is to be considered as part of the students' major, area of concentration, honors, or minor program. For graduate programs, no transfer credit hours will be given for courses with grades below B (or the equivalent).

Note: Students should note that **at least 50%** of all credit hours for any academic program (degree, diploma, or certificate) must be taken at Saint Mary's.

h. Except under the above provisions, students may not register concurrently at Saint Mary's and at another academic institution. Should a student's concurrent registration be discovered, the University, on the advice of the Dean of the Faculty concerned, reserves the right to deny the student any credit hours taken at another institution and to cancel that student's acceptance and/or registration at Saint Mary's University.

i. Letters of Permission will not be authorized on a retroactive basis.

22. Advanced Standing Credit by Examination for Undergraduate Degree Programs

Such credits are no longer available.

23. Students Whose First Language Is Not English

In the majority of cases the primary language of instruction at Saint Mary's University is English. Therefore, students for whom English is not their first language and who do not have the facility to communicate well, both verbally and in writing, are strongly encouraged to register for English language training prior to registering in their academic program at the University.

24. Requirements of Two Academic Programs (Dual Program)

a. If students are endeavouring to satisfy the requirements of two academic programs at the University, it may not be possible to satisfy the requirements of both of these within the minimum number of credit hours stipulated for either or both of them. The two programs include, but are not limited to: dual degree programs; double major/concentration; major in one subject and honors in another; and degree and certificate programs. Students are advised that they must meet the specific requirements of each portion of their academic program or programs in order to qualify for graduation.

b. It is possible to satisfy simultaneously the requirements for two baccalaureate degrees in the Faculties of Arts, Commerce or Science. To formally declare their status as dual degree, students must complete the appropriate form in the Registrar's Office and have it signed by each appropriate Dean. Prior to signing this form, each Dean will assess the students' university course work to date and inform the Registrar in writing of other general requirements that must be completed in order to earn a degree within that Faculty. The Registrar, in turn, will officially notify the student. Specific program requirements should be discussed with the

Chairperson of the Department of the students' major or area of concentration. Students in a dual degree program are advised that in order to receive the two degrees at the same Convocation, they must meet the specific requirements of each portion of their academic program(s) and also **ACHIEVE A MINIMUM DEGREE GRADE POINT AVERAGE OF 3.00** in order to qualify for graduation. Dual degree students will receive both of their degrees at the same Convocation. Students who complete the requirement for only one degree and who graduate are considered to have discontinued the second degree program. Should they subsequently wish to resume their studies in the second faculty, they must reapply for admission and, if admitted, are considered to be pursuing a second undergraduate degree and hence required to follow the appropriate regulations and guidelines.

25. Second Undergraduate Degree

a. Students who hold a first baccalaureate degree may obtain a second baccalaureate degree in the same Faculty, but with a different major, or in a different Faculty and with a different major, by completing all requirements for that degree as specified by the Dean of that Faculty. The minimum number of credit hours required will be 50% of the number stipulated for a first undergraduate degree. Specifically, therefore, for a Bachelor of Arts degree with a Double Concentration and a Bachelor of Science degree with a concentration, a minimum of forty-five (45) credit hours will be required; for a Bachelor of Arts degree or a Science degree with either a major or honors, as well as a Bachelor of Commerce degree, the minimum number of credit hours will be sixty (60) credit hours. Students must also complete the regulations of the *Academic Calendar* in existence when they officially began their program. In so doing, they must complete all of their credit hours at Saint Mary's. Any credit hours that have been used to satisfy the requirements for any previous academic credentials will not be permitted to count again for this second baccalaureate degree.

b. All students who wish to register in a program leading to a second baccalaureate degree must complete the appropriate application form available from the Office of Admissions at least three months prior to the academic session in which they expect to officially register for that second degree program. Their application must include the subject(s) of their major(s).

c. Undergraduate Certificates and Diplomas as Second Credentials

(i) Students who already hold a Saint Mary's University degree and subsequently wish to obtain a Saint Mary's University undergraduate certificate or undergraduate diploma are required to apply officially to the Admissions Office at least three months prior to the time when they anticipate beginning this program. The academic administrator of that specific program will automatically evaluate the student's previous academic work and advise the Registrar officially of the precise courses remaining to qualify for this second credential. This evaluation is an integral part of the admission process and, hence, an

acceptance cannot be confirmed nor can a student register until this process has been completed.

(ii) Students who hold a degree from a recognized post-secondary institution other than Saint Mary's University are required to follow the admission procedures delineated above in (i). If admitted, the student must complete a minimum of 50% of the courses required for that academic program at Saint Mary's University, including all additional courses specified in individual program requirements.

(iii) In addition to regular degree programs, the undergraduate certificate programs to which this regulation applies are:

- Certificate of Chinese Studies (CER CHST)
- Certificate of Proficiency in French (CPRF)
- Certificate in German Language & Culture (CER GLST)
- Certificate of Human Resource Management (Management Option: HRMC or Psychology Option: HRMP)
- Certificate of Linguistics (CER LING)
- Certificate of Japanese Studies (CER JPST)
- Certificate of Spanish Language & Hispanic Culture (CER HPST)

The undergraduate diploma programs to which this regulation applies are:

- Diploma in Engineering (DIP EGNE)
- Diploma in Forensic Sciences (DIP FOR SCI)

(iv) Students are advised to check carefully the grade point average requirements for the specific certificate or diploma program in which they plan to enroll.

26. Certificate of Honors Equivalency

a. The Certificate of Honors Equivalency was established by the University Senate to provide a means of granting appropriate recognition to those Saint Mary's graduates who did not follow the regular honors program of the University but have subsequently completed all requirements for graduation in such a program, and having already received a degree, cannot have a second undergraduate degree in the same Faculty conferred upon them. To earn the Certificate of Honors Equivalency, students must complete all the requirements (or their equivalents) for the appropriate honors program.

b. Students who have earned a first undergraduate degree from another post-secondary institution may be admitted to the Certificate if they have achieved a cumulative grade point average of 3.00 or above. Admission requires the approval of the appropriate department chairperson and the Dean. Advanced standing will be granted in accordance with regulation 20 above. Students must complete at least 30 additional credit hours at Saint Mary's and satisfy all course and grade requirements for the honors program.

27. Convocation Dates, Degrees, Diplomas, and Certificates

a. Students **MUST** file an Application for Graduation from a specific academic program with the Registrar by the dates stipulated in the University Calendar of Events. As of 1 September 2001, there is no graduation fee. If, at the discretion of the Registrar, there are circumstances which

warrant waiving the stipulated deadline for filing the graduation application, the student will be assessed a \$25.00 administrative fee or permitted to wait until the next Convocation in order to graduate. If during the course of the student's final academic year at the University, a change is made in the Faculty or in the type of program in which the student is enrolled (i.e., from honors to major), it will be necessary for the student to officially withdraw their original application and reapply for graduation, and the above-noted deadlines will apply as will the Registrar's discretionary authority.

b. Normally there are three Convocations annually, two in May and one October/November. Once all requirements are completed, students must graduate at the next Convocation. Students are permitted to receive two parchments at one Convocation only in the following instances, namely, registered in a dual degree program (see Academic Regulation 24b above) or a degree and diploma/certificate program.

c. Students are required to obtain the academic regalia appropriate to their academic program at the times, dates and locations indicated in the *Graduation Booklet* which is mailed to all students who have filed an application for graduation and who qualify as potential graduates. This mailing occurs approximately six weeks prior to graduation. It is the students' responsibility to ensure that they have received a copy of the publication.

Students will not be permitted to convocate if they are not attired appropriately and in the academic regalia designed for their particular academic program at Saint Mary's University.

d. The parchment shows the academic designation (i.e., degree, diploma, or certificate) as well as any academic distinction (as defined in Academic Regulation 29) which has been conferred but not the major, area of concentration, or minor. This, however, is noted in the students' official academic record and hence appears on any transcript issued, whether official or unofficial. The subject of honors is shown on the parchment.

e. The University grants the following degrees:

Bachelor of Arts	B.A.
Bachelor of Commerce	B.Comm.
Bachelor of Science	B.Sc.
Master of Arts	M.A.
Master of Business Administration	M.B.A.
Master of Finance	M.F.I.
Master of Management – Co-operatives & Credit Unions	M.M.C.
Master of Science	M.Sc.
Doctor of Philosophy	Ph.D.
Doctor of Civil Law, Honoris Causa	D.C.L.
Doctor of Commerce, Honoris Causa	D.Comm.
Doctor of Education, Honoris Causa	D.Ed.
Doctor of Fine Arts, Honoris Causa	D.F.A.
Doctor of Laws, Honoris Causa	LL.D.
Doctor of Letters, Honoris Causa	D.Litt.
Doctor of Science, Honoris Causa	D.Sc.

The University grants the following diplomas and certificates:

Certificate of Chinese Studies	CER CHST
Certificate of Proficiency in French	CPRF
Certificate of German Language and Culture	CER GLST
Certificate of Human Resource Management	CER HRM
Certificate of Human Resource Management (Psychology option)	CER HRP
Certificate of Honors Equivalency	CER HRMP
Certificate of Linguistics	CER LING
Certificate of Japanese Studies	CER JPST
Certificate of Spanish Language and Hispanic Culture	CER HPST
Co-operative Education Certificate	Coop
Diploma in Engineering	DIP EGNE
Diploma in Forensic Sciences	DIP FRSC
Graduate Diploma in Criminology	GRD DIP CRIM
Graduate Diploma in International Development Studies	GRD DIP IDST

f. Details of the University’s policies on the reissuing of parchments are available from the Registrar. If re-issued, the cost is \$50.00 plus applicable taxes for a total of \$57.50 (Canadian).

g. Students whose accounts with either or both of Financial Services or the Library Systems are in arrears may be denied the right to graduate until the debt is cleared.

28. Degree, Diploma, or Certificate in Absentia

Provided that candidates have officially notified the Registrar in writing at least ten days in advance that they will not be present at Convocation, they may receive their parchment in absentia. Failure to give such notification will result in a \$10.00 penalty, which must be paid before the parchment or any other proof of graduation will be prepared and released.

29. Distinctions

a. (i) In the undergraduate degree and diploma program, distinctions are awarded to successful candidates on the basis of the following grade point averages in respect of the courses specified in (b) below.

Program:	Grade	Distinction:
B.A., B.Sc., & B.Comm.	Point Average	Diploma in Engineering
summa cum laude	4.00–4.30	With greatest distinction
magna cum laude	3.85–3.99	With great distinction
cum laude	3.70–3.84	With distinction

(ii) Bachelor’s degree with honors: A Bachelor’s degree with honors will be awarded with the distinction “First Class” when the cumulative grade point average for all courses taken at Saint Mary’s is at least 4.00. Otherwise the honors degree will be awarded without special distinction.

b. The above-noted grade point averages will be calculated on the basis of all courses taken at Saint Mary’s. Students must have taken 75% (80% in Engineering) of their courses at Saint Mary’s to qualify for a distinction. In the case of

the honors degree, students must have taken a minimum of 75% of their courses at Saint Mary’s to qualify for a distinction. This “75%” stipulation as distinct from the previous “85%” became effective 1 September 2001 and will not be applied on a retroactive basis. In terms of specific academic programs, the details are as follows:

B.A. Concentration	69 credit hours	Major:	90 credit hours	Honors:	90 credit hours
B.Comm. Major:	90 credit hours	Honors:	90 credit hours		
B.Sc. Concentration:	69 credit hours	Major:	90 credit hours	Honors:	90 credit hours
B.Sc./Dip.Egn.	69 credit hours	Dip.Egn.	54 credit hours		

The only exception to this is when the student has earned the equivalent of thirty (30) credit hours at Centre international d’études françaises (C.I.D.E.F.) de l’Université catholique de l’ouest, Angers, France; and from exchange programs with which Saint Mary’s University has entered into formal agreements.

c. No distinctions are awarded in graduate and certificate programs.

d. In May 2002 as a Bicentennial project, the President’s Hall of Academic Excellence was established. Located directly outside the Office of the President (main wing, main floor, McNally Building) the Hall displays a listing of all the distinctions earned and medals won by graduating students as well as members of faculty. This will be an annual listing for those students who have graduated with academic excellence.

30. University Medals

At each Spring Convocation the following are presented:

a. Governor General’s Gold and Silver Academic Medals

These medals are awarded annually to the graduate (gold) and the undergraduate (silver) deemed to be the top candidates at their respective levels of study.

b. Faculty and Division Medals

In the Faculties of Arts, Science, and Commerce; and in the Division of Engineering, medals are awarded to the undergraduate students with the highest cumulative grade point average. Medals are also presented to the students with the highest cumulative grade point averages in the M.A. (IDS); M.Sc. (Applied Psychology); M.B.A., and E.M.B.A. graduate programs.

Notes: (a) In the case of undergraduate degrees and diplomas, the cumulative grade point averages will be calculated on the same basis as that for determining distinctions (see Academic Regulation 29). In the case of a tie, Senate will determine the recipient of the medal. In the case of graduate degrees, students’ entire graduate academic records will be considered.

(b) Students who graduate at Fall Convocation will be considered for medals at the next Spring Convocations.

31. Dean's Lists for Undergraduate Programs

Saint Mary's University recognizes students of high academic standing by placing them on the Dean's List. There are two systems by which students may qualify for placement on the Dean's List:

a. At the end of each academic year (i.e., on or about 1 May), full-time students whose grade point average indicates high academic achievement will be placed on the Dean's List and have that achievement recorded on their official academic records. To qualify for this recognition, students must have taken at least thirty (30) credit hours during that academic year, have achieved a minimum grade point average of 3.67, and received no "F" grades. In instances where Saint Mary's has authorized a student to enroll in a course(s) on a Letter of Permission which, when counted with courses taken at Saint Mary's in one academic year, totals at least thirty (30) credit hours and which gives the required minimum grade point average, students are invited to apply officially for placement on the Dean's List. Because the Student Information System (SIS) cannot easily identify these cases, a formal application form is required. These are available from the Registrar's Office.

b. (i) For students registered in less than thirty (30) credit hours in an academic year to qualify for placement on the Dean's List, they must have taken and completed overall at least thirty (30) credit hours. They must have achieved a minimum grade point average of 3.67 and received no "F" grades on these courses. After having been placed on the Dean's List, these students must take at least 30 additional credit hours to qualify again for placement on the Dean's List. Placement on the Dean's List will be assessed at the end of each academic year (i.e., on or about 1 May) and recorded on students' official academic records.

(ii) Because the Student Information System cannot easily identify those who qualify for placement on the Dean's List under Academic Regulation 31b (i) above, only those students must apply for placement on the Dean's List. Application forms are available from the Registrar's Office and can only be filed after final marks have been processed and officially received by the students.

c. On 15 January 2003, the Dean's List Display for the Sobey School of Business was unveiled on the first floor of the Sobey Building and is updated annually.

32. Students' Academic Records and Transcripts

a. Students' academic records, including their official University files, are the property of the University. Access to those records and release of information from them will be governed by the University's policies and by the laws of the Province (Nova Scotia's Freedom of Information and Protection of Privacy Act, S.N.S. 1993, chapter 5) and the country (Personal Information Protection and Electronic Documents Act). As the University is committed to the integrity of its student records, students are required to provide, on their Application for Admission, their complete legal name. Any requests to change that name, by means of alteration, deletion, substitution or addition, must be made

in writing to the Registrar and accompanied by appropriate supporting documentation. The University's official policy on this subject is contained in the pamphlet entitled, "Policy Regarding the Release of Information about Students". Copies are available from the Registrar.

In addition to the internal policies, procedures, and practices of the University and the requirements of the provincial FOI-POP legislation and the national PIPEDA legislation, as a public institution the University is mandated to collect and report annually to Statistics Canada through the Maritime Provinces Higher Education Commission (MPHEC). The types of information collected in this E.S.I.S. project; the uses to which this data is put; and the opting-out mechanism for those students who do not wish this material about them to be used in any fashion are available on request from Statistics' Canada's web site: <http://www.statcan.ca> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, ON K1A 0T6.

b. Students' transcripts of records are privileged information and to that end will not be released by the Registrar to any individual outside the University without the prior written permission of the students. As required by their appointment, academic administrators within the University have access to students' complete academic records.

c. To request a transcript, students must complete the appropriate form obtainable from the Registrar or mail or fax a letter of request to the Records Office. It is not possible to accept a transcript request over the telephone. Transcript requests are processed strictly in the order in which they are received. Although the normal processing time for both official and unofficial transcripts is the same and is approximately ten working days, additional time will be required at peak periods.

Commencing in the February 1998, a "Same Day/Next Day Transcript Service" was launched to provide students/alumni with an express service for ordering and receiving their transcripts. Details on these two services follows.

Same Day Transcript Service

Requests must be received at the Registrar's Office by 10:00 a.m. for pick-up, mailing or faxing by 4:00 p.m. the same day.

Next Day Transcript Service

This is offered within a 24 hour period during regular business hours. For example, if the request is received by 2:00 p.m. the transcript(s) will be ready for pick-up, mailing, or faxing by 2:00 p.m. the following day.

Costs

There is an additional service charge:

* SAME DAY \$12.00

* NEXT DAY \$10.00

This fee is **over and above** all other charges, i.e. the \$5 per transcript cost; faxing, and if applicable, courier charges. It is recommended that transcripts be picked-up when ready. Students who wish to have a transcript mailed should be

aware that outgoing mail does not leave the University after 1:30 p.m. daily.

Blackout Periods

These express transcript services will not be operational for the first 10 working days of January or May. Next Day and Same Day Transcript Service is **NOT** applicable to those individuals who attended Saint Mary's University prior to the 1973-74 academic year.

Further information as to timeframes and costs is available on request. Transcripts include the following information:

- (i) Faculty, program, major, area of concentration, minor, and/or honors;
- (ii) advanced standing and/or transfer credit hours;
- (iii) grades (failing as well as passing) in respect of all academic work attempted while registered at Saint Mary's.

d. Where appropriate, reference is also made to:

- (i) placement and continuance on, and removal of, academic probation;
- (ii) requirement to withdraw for academic weakness, or for non-academic (i.e., disciplinary) reasons;
- (iii) distinctions and scholarships, including placement on the Dean's List.

NOTE: All transcripts carry only the student's birth month and day, not the birth year.

e. The cost is \$5.00 per copy which must be received before the transcript is issued. Official transcripts are those forwarded directly from the Registrar's Office to an official third party. If detailed course descriptions are also required, there will be an additional fee of \$1.00 per description. Students whose accounts are in arrears will be denied transcripts until the debt is cleared.

f. Upon prepayment, the University is prepared to fax a transcript which has been ordered in the official manner. Students are advised to check beforehand with the receiving institution to ensure that a transcript received by fax will be acceptable. The prepaid fees for faxing a transcript are: \$7.00 – Halifax Metropolitan Area; \$10.00 – elsewhere in Canada; and \$20.00 – outside of Canada. Transcripts can

also be forwarded by courier if the requisite fee has been prepaid and complete instructions have been provided. Transcripts will be faxed or couriered only after the requisite fees have been received and processed at the University.

g. While the University takes every reasonable precaution to ensure the confidentiality of student records, students should be aware that the University is connected to a number of external electronic systems, and a number of academic and administrative offices have access, at least on a display basis, to the Student Information System. Copies of the "Policy Regarding the Release of Information about Students", as approved by Senate in April 1994, are available from the Registrar. Effective 23 November 2000, all post-secondary institutions in Nova Scotia are also governed by the Freedom of Information and Protection of Privacy legislation (FOI POP).

33. Safety and Responsibility in Officially-Sanctioned University Activities

Saint Mary's University has policies on the safety and responsibility of students in laboratories, on field courses/trips, in exchange programs/courses, and involved in other university-sanctioned activities. Copies of those policies are available through the Offices of the Deans of the Faculties, the Office of the Safety Coordinator, and the Office of the Director of International Activities. In courses where a safety policy is particularly relevant because of the special nature of the course, or because of the place of study, instructors will make it known to students in writing at the first class, or in the case of study programs outside Nova Scotia, before the program begins.

34. University Research Ethics Board (REB)

It is the responsibility of all members of the University community – students, faculty, administrators, and staff – carrying out research involving human subjects to seek approval from the University Research Ethics Board (REB) for their research. Student submissions to the REB should be made through the thesis supervisor. For further information, please consult the REB website: www.smu.ca/academic/reb.



On September 23, 2005, the University kicked off a year-long celebration of the Patrick Power Library's 30th anniversary. Left to right (back): Dr. Alexandra Dobrowolsky, Political Science Department; John Feehan, Saint Mary's Alumnus; Dr. John Reid, History Department; and Dr. Albert Mills, Management Department. Left to right (front): Dr. Charles Beaupre, Modern Languages and Classics Department; Madeleine Lefebvre, University Librarian; and Dr. Brian Bartlett, English Department.

Registration

1. Procedures *The Registration Book*

Registration procedures are the responsibility of the Registrar and will be made known to students, instructors and administrators in the official *Registration Book* published annually.

2. Registration Advisory Unit (R.A.U.)

This Unit provides ALL students with the opportunity to receive assistance in a number of registration-specific areas.

For students unfamiliar with the registration process, the following will be helpful – the Saint Mary's University course numbering systems and designators; how to develop your own personal class schedule; the basic requirements for each academic program; an overview of the academic philosophy of the University; and a detailed explanation of key specific academic regulations, policies, procedures, and deadlines, both academic and financial.

The R.A.U. operates annually during the periods of formal registration, late registration, and the official change of registration periods – i.e., from mid July to mid September and again during the first two weeks of January.

3. Change of Registration: Biographical Information

In addition to changes of courses, labs, and recitations, change of registration also consists of maintaining the accuracy of biographical information (i.e., addresses, and telephone numbers, name). Only students can initiate these changes through Banner Self-Service. Only the Registrar can officially process changes submitted in writing. Changes made in any other way, formally or informally, are not honored.

4. Registration in Dual Academic Programs

Students are advised that if they are registered in a dual academic program and opt to graduate with only one of these qualifications, they are assumed to have discontinued the second program. To reactivate their status, students must reapply for admission and qualify for the second program with at least the minimum number of credits specified for that second specific program (see Academic Regulations 24 and 25).

5. Registration in Directed Studies/Special Topics/Reading Courses

Before students can register for such a course(s), it is necessary for information to have already been received and processed in the Registrar's/Records Office with respect to the precise course number (and section

number, if applicable), and also the faculty member who will be responsible for the course. If you are planning to register for such a course during the 2006-2007 academic year, please ensure that you have made the necessary arrangements with the faculty member and that the Chairperson of the Department in which the course is offered has made this information available in writing to the Associate Registrar. Until this information has been received and processed, registration in that course cannot be undertaken. Attention to this detail will facilitate registration for all concerned.

6. Alterations to Academic Timetable

The University reserves the right to change the times and the academic instructor(s) of a course from those advertised in the official Timetable.

7. Cancellation of Courses

If the number of students registered for a course (or section of a course) is insufficient to warrant it being offered, that course may be cancelled by the Dean of the Faculty. Other circumstances may also require the cancellation of a course or a section thereof by the Dean of the Faculty and/or the Vice President, Academic and Research.

8. Addresses

During the academic year, all communications are mailed to local addresses. Therefore students are urged to keep theirs up-to-date in the Registrar's Office. During the summer months, communications are normally sent to the students' permanent addresses unless an alternate address has been filed with the Registrar prior to the advertised deadlines.

9. Identification Cards

At the time of first registration, students are required to obtain an I.D. card. These I.D. cards provide students with an official University identification which can be required for the writing of examinations and tests. [See Academic Regulation 8(e).] These cards also serve as Library cards, permit computer lab use, allow access to The Tower (Fitness and Recreation Centre), and enable students to qualify for discounts at some local businesses. There is no charge for the initial I.D. card.

Each subsequent year I.D. cards are validated by the Library at no cost. A replacement card costing \$15.00 for lost or damaged cards will be issued with proof of valid registration.

Students can obtain their I.D. card at the Library.



With the support of sponsors Manulife Financial and Exit Realty, members of the Saint Mary's Huskies Football Team recently assisted Habitat for Humanity with the construction of two homes in the Forest Hills area of Dartmouth, NS.

**Faculties and
Programs**

**Section
3**

Undergraduate Programs

Arts

Undergraduate Degree Requirements
Co-operative Education Programs
Dual Bachelor Degree Programs
Second Undergraduate Degrees

Commerce

Undergraduate Degree Requirements
Co-operative Education Programs
Dual Bachelor Degree Programs
Second Undergraduate Degrees

Science

Undergraduate Degree Requirements
Dual Bachelor Degree Programs
Second Undergraduate Degrees
Co-operative Education Programs
Diploma Programs:
Engineering,
Forensic Sciences

Education

Study Abroad Opportunities

Pre-Professional Programs

Graduate Programs

General Requirements

Arts

Master of Arts in Atlantic Canada Studies
Master of Arts in Criminology

Master of Arts in History
Master of Arts in International Development Studies
Master of Arts in Philosophy
Master of Arts in Women's Studies
Graduate Diploma in Criminology
Graduate Diploma in International Development Studies
Graduate Courses in Geography

Commerce

Executive Master of Business Administration
Master of Business Administration
Master of Business Administration – CMA
Master of Finance
Master of Management Co-operatives and Credit Unions
Doctor of Philosophy in Business Administration
(Management)

Science

Master of Science in Astronomy
Doctor of Philosophy in Astronomy
Master of Science in Applied Psychology
Master of Science in Applied Science
Doctor of Philosophy in Astronomy
Doctor of Philosophy in Industrial/Organizational (I/O)
Psychology
Master of Science in Applied Science

Education

Master of Education in Teaching English as a Second or
a Foreign Language
Post Degree Certification:
• Certificate in the Mathematical Sciences for
Education
• Certificate in Linguistics

Faculty of Arts

Dr. Esther E. Enns, Dean
Dr. Donald J. Naulls, Associate Dean
Dr. Renee Hulan, Associate Dean

General Information

The Faculty of Arts offers programs of study leading to the following degrees:

- Bachelor of Arts – Honours [one hundred and twenty (120) credit hours]
- Bachelor of Arts – Major [one hundred and twenty (120) credit hours]
- Bachelor of Arts – General (with Double Arts Concentrations) [ninety (90) credit hours]

These programs are all designed to foster knowledge and skills that can help students succeed in a wide range of professional and personal pursuits and to be effective citizens in local, national, and international communities.

Students can develop analytical skills, the ability to communicate thoughts effectively both orally and in writing, facility with the theories and research methods used in the Arts, a capacity to work together with those from different cultures and backgrounds, and the skills necessary for independent judgment and critical thinking.

Prospective students will normally seek admission to the *Bachelor of Arts – Major* program. This is a one hundred and twenty (120) credit hour program that combines a broad liberal arts education with in-depth study in a particular field. An alternative choice for an undergraduate degree is the fifteen-credit (ninety (90) credit hours) *Bachelor of Arts – General (with Double Arts Concentrations)*.

At a later stage, students who achieve high grades in the *Bachelor of Arts – Major* program may seek admission into the *Bachelor of Arts – Honours* program. This is an enhanced BA degree designed for students of above-average ability, especially for those who intend to proceed to

graduate work or seek a professional career related to the Honours subject(s). The Honours degree requires greater specialization and a higher level of performance than the Major degree.

In addition, undergraduate certificate programs are offered in Chinese Studies; French Language Proficiency; German Language and Culture; Japanese Studies; Linguistics and Spanish Language and Hispanic Culture. They are intended for undergraduate students, persons already holding degrees, and mature students with relevant experience.

Through the Faculty of Graduate Studies and Research, there are opportunities for students to complete a Master of Arts in the following areas: Atlantic Canada Studies, Criminology, History, International Development Studies, Philosophy, and Women's Studies. Graduate Diplomas are available in Criminology and International Development Studies as well as graduate-level courses in Geography.

Language Proficiency

For the Bachelor's degrees, students are expected to be able to express themselves clearly and cogently in the English language. To this end, instructors in all subjects attach great importance to clarity of expression and to the capacity to sustain a coherent argument in assessing written work. Students who are deficient in this area are therefore strongly advised to take immediate steps to remedy that deficiency. Saint Mary's University has established a Writing Centre, located in Burke 115, which offers students free, one-on-one assistance from peer tutors. Also, the University encourages students to become better readers and writers by requiring all students to take ENGL 1205 (Introduction to Literature). In Canada, a nation that is officially bilingual, there is a significant advantage in acquiring a working knowledge of the French language. Furthermore, in a world of increasing international mobility, there is particular advantage in acquiring competency in one or more international languages.

Faculty of Arts – Undergraduate Program Degree Requirements

Summary of Degree Requirements

Bachelor of Arts – Major

- Total number of credits required: one hundred and twenty (120) credit hours (see below – Arts regulation 1a)
- 2000 level or higher Arts credits required: sixty-six (66) credit hours
- General Arts Requirements: thirty (30) credit hours (see below – Arts regulation 3)
- Credits required for major: thirty-six (36) to forty-eight (48) credit hours (see below – Arts regulations 1b and 4a; also departmental/subject area requirements, found in Section 5)
- Program grade point average for major: a minimum of 2.00 (see below – Arts regulation 1c; also departmental/subject area requirements, found in Section 5)

- Degree grade point average for graduation: a minimum of 1.70.

Bachelor of Arts – General (Double Arts Concentrations)

- Total number of credits required: ninety (90) credit hours (see below – Arts regulation 1d)
- 2000 level or higher Arts credits required: forty-eight (48) credit hours
- General Arts Requirements: thirty (30) credit hours (see below – Arts regulation 3)
- Double Arts Concentration Requirement: forty-eight (48) credit hours with twenty-four (24) distinct credit hours in each of two Arts areas (credits are not double counted; cross-listed courses counted in only one area) (see below – Arts regulations 1e and 4b)
- Program Grade Point Average for the Double Arts Concentrations requirement: a minimum of 2.00 (See below – Arts regulation 1f)
- Degree Grade Point Average for graduation: a minimum of 1.70.

1a. Subject to the regulations set forth in this *Calendar* for the Bachelor of Arts degree with Major, students must complete the equivalent of one hundred and twenty (120) credit hours, with a minimum sixty-six (66) credit hours in Arts courses at the 2000 level or above. Students may also declare a Minor (see below – Arts regulation 6 a, b, c, d).

1b. In addition to satisfying the Basic Arts Requirement 3, students in the BA with Major must complete the equivalent of not fewer than thirty-six (36) credit hours in the major subject, but may count among these thirty-six (36) any relevant course(s) taken in fulfillment of requirement 3. Not fewer than twenty-four (24) of the thirty-six (36) credit hours must be at the 2000 level or above. No department may require more than forty-eight (48) credit hours in the major subject.

1c. For a Major to be formally recognized and placed on the record, students must have a minimum program grade point average of 2.00 (an average grade of C) in the courses specified in Requirement 1b and must have fulfilled any additional requirements specified by the department or the area. Students who fail to achieve this average may, provided they fulfill all other requirements, graduate as non-majors.

1d. Subject to the regulations set forth in this *Calendar* for the degree of Bachelor of Arts – General (Double Arts Concentrations) students must complete the equivalent of ninety (90) credit hours; with a minimum forty-eight (48) Arts credit hours at the 2000 level or above. Students may not declare a minor in any Arts areas; students are eligible to declare a Minor in non-Arts subjects and/or a Minor in Business (see below – Arts regulation 6 b, c). Cross-listed courses are applied to one Arts area. Students must complete the equivalent of twenty-four (24) distinct credit hours in each of their two designated Arts Concentrations.

1e. In addition to satisfying the Basic Arts Requirement 3, students in the B.A. General degree must complete the equivalent of not fewer than twenty-four (24) distinct credit

hours in two Arts areas for a total of forty-eight (48) credit hours; but may count among the twenty-four (24) credit hours any relevant course(s) taken in fulfillment of requirement 3. Not fewer than eighteen (18) of the twenty-four (24) credit hours in each of the two Arts areas for the Double Arts Concentrations Requirement must be at the 2000 level or above. No department or area may require more than twenty-four (24) credit hours toward the Double Arts Concentration Requirement.

If. For the Concentrations to be formally recognized and placed on the record, students must have a minimum program grade point average of 2.00 (an average grade of C) in the courses specified in requirement 1d, and must have fulfilled any additional requirements specified by the department or the areas of concentration. Students who fail to achieve this average may, provided they fulfill all other requirements, graduate without the “Double Arts Concentrations” designation.

Ig. Courses which begin with zero (0) are designed to prepare students for entry-level course work and will not be credited toward any degree, diploma, or certificate.

2. During the regular academic year, a full-time student frequently takes up to thirty (30) credit hours but may opt for an additional six (6) credit hours. Permission is not required for such an overload.

3. **For the Basic Arts Requirements** students must complete:

a. English 1205.1(2) or at the discretion of the Chairperson of the English Department, an alternative three (3) credit hours in English;

b. six (6) credit hours from one or two of the following: Philosophy 1200 (Critical Thinking) (No other Philosophy course satisfies this requirement.)
or Mathematics [including MGSC 1205.1(.2); MGSC 1206.1(.2); and CISO 1225.1(.2)]
or a language other than English
or a natural science (except Psychology);

c. the equivalent of nine (9) credit hours from at least TWO of the following humanities: Classics, English other than ENGL 1205.1(.2), History, Philosophy other than PHIL 1200.0, Religious Studies, and *Modern Languages courses on literature and/or culture*; and

d. the equivalent of twelve (12) credit hours from at least two of the following social sciences: Anthropology, Economics, Geography, Linguistics, Political Science, Psychology, and Sociology. (A maximum of six (6) credit hours will be counted from any one area).

4. Declaring the Major(s) and Arts Concentrations

a. **Bachelor of Arts with Major(s):** Not later than the completion of sixty (60) credit hours, students must declare the particular subject(s) in which they wish to major. The following are recognized as Arts subjects in which it is

possible to major: Anthropology, Asian Studies, Atlantic Canada Studies, Classics, Criminology, Economics, English, French, Geography, German Studies, Hispanic Studies, History, International Development Studies, Irish Studies, Linguistics, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, Sociology, and Women’s Studies. Details are available from the individual program chairpersons or coordinators. Alternative areas, tailored to the needs and interests of particular students, may be devised and approved by the Dean of the Faculty as an Independent Studies Major. Once a student’s major (or majors) has been declared, students’ programs must be approved annually and supervised by the departments/subject areas in which they are majoring or by the persons responsible for their major. While a subsequent change of Major or Arts Area is possible, students are advised that such a change may necessitate additional courses in order to meet graduation requirements. The regulations governing the major program will be those in effect at the time of declaration of the major. Students are strongly encouraged to declare their major prior to 1 May.

It is also possible to declare a double major, (i.e., two majors, one in each of two different subject areas), in which case the students must fulfill both faculty and departmental requirements in respect of each of the subjects declared. In some cases this may not be possible without exceeding the total number of credits normally required for graduation; but the Dean, with the approval of the appropriate departmental Chairpersons, may reduce these requirements in the light of a student’s overall record.

b. Bachelor of Arts – General (Double Arts Concentrations)

Not later than the completion of thirty (30) credit hours in Arts, students must declare the two (2) subject areas in the Faculty of Arts in which they wish to complete the Double Arts Concentration Requirement. The following are Arts subject areas: Anthropology, Asian Studies, Atlantic Canada Studies, Classics, Criminology, Economics, English, French, Geography, German Studies, Hispanic Studies, History, International Development Studies, Irish Studies, Linguistics, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, Sociology, and Women’s Studies. Details are available from the individual program Chairpersons or Coordinators. Alternative areas, tailored to the needs and interests of particular students, may be devised and approved by the Dean of the Faculty as an Independent area of study. Once a student’s two (2) areas of study toward their Double Arts Concentrations Requirement have been declared, students’ programs must be approved annually and supervised by the departments/subject areas or by the persons responsible for the area of study. While a subsequent change in the chosen areas of study for the Double Arts Concentrations Requirement is possible, students are advised that such a change may necessitate additional courses in order to meet graduation requirements. The regulations governing this program will be those in effect at the time of declaration. Students are strongly encouraged to declare the areas for the Double Arts Concentrations Requirement prior to 1 May.

5. Non-Arts Credits

Within the limits imposed by these regulations, students may count towards a Bachelor of Arts – Major or a Bachelor of Arts – General degree, the equivalent of up to eighteen (18) credit hours from outside the range of recognized Arts subjects as specified in requirement 4. Students registered in the Faculty of Arts should note that the following courses are acceptable as Arts credits as are all courses offered by the Faculty of Education and coded EDUC as well as the following specific courses offered by the Faculty of Commerce. These are MGMT 2383.1(.2); MGMT 2384.1(.2); MGSC 1205.1(.2); MGSC 1206.1(.2); MGSC 2207.1(.2); and CISY 1225.1(.2). Other Commerce (also Science and Education) courses to a maximum of eighteen (18) credit hours may be taken in a Bachelor of Arts program, but they cannot be counted as Arts credits.

6. Minors

a. Minors in Arts Subjects

Students completing a Bachelor of Arts with Major have the option of declaring minor fields in addition to major ones. Minors can be declared in most of the subject areas listed previously in Arts regulation 4, except for Criminology. A minor is also available in Film Studies. In addition, the University, in cooperation with the Nova Scotia College of Art and Design, Kings College, and Mount Saint Vincent University offers a minor in Film Studies. To satisfy the requirements for a minor, students must complete at least twenty-four (24) credit hours [at least thirty (30) credit hours in Business or Mathematics] in that particular subject area. At least twelve (12) of these credit hours must be at the 2000 level or above. For more specific departmental requirements, consult the departmental statements in Section 5 of the *Calendar*.

b. Minor in Non-Arts Subjects

Since the 1997-98 academic year, students in the Faculty of Arts have been permitted to declare a minor in a subject taught in the Faculty of Commerce (except Economics) or Faculty of Science from those academic units which currently offer this program option. The specific requirements for minor programs are those set forth by the host academic unit. Students may take a minor in another faculty; however, they must fulfill the requirements of the degree in which they are registered, including officially declaring and fulfilling the requirements for a major or honours. Students are advised that majors, honours, and minors in non-Arts subjects may result in more courses being required than the normal minimum stipulated for a Bachelor of Arts degree.

c. Minor in Business for Arts Students

A minor in the Faculty of Commerce is available for students pursuing a Bachelor of Arts with major, honours or double Arts concentrations. This consists of the equivalent of thirty (30) credit hours, namely:

ACCT 2241.1(.2) Introductory Financial Accounting I
 ACCT 2242.1(.2) Introductory Managerial Accounting II
 CMLW 2201.1(.2) Legal Aspects of Business
 COMM 2293.1(.2) Communications
 MGMT 1281.1(.2) Introduction to Business Management

MGMT 2383.1(.2) Micro Organizational Behaviour
 or MGMT 2384.1(.2) Macro Organizational Behaviour
 MKTG 2270.1(.2) Introduction to Marketing
 CISY 1225.1(.2) Introduction to Computer Applications
 Six (6) credit hours in Commerce subjects.

d. Inter-University Minor in Film Studies

A minor in Film Studies is available to undergraduate students in all three faculties. Details are found in Section 5 of this *Calendar*.

The regular “Declaration of Major/Minor/Concentration” form is to be used to declare a minor. Students must fulfill all requirements for any minor(s) which they officially declared in order to qualify for graduation, or officially (i.e., in writing) withdraw their declaration of a minor(s).

7. Satisfactory Standing

In conformity with Academic Regulation 7c (i) students must achieve a minimum degree grade point average of 1.70 in order to qualify for graduation.

8. Requirements for the Degree of Bachelor of Arts – Honours

a. The Faculty of Arts offers Honours programs in Anthropology, Atlantic Canada Studies, Asian Studies, Criminology, Economics, English, Geography, History, International Development Studies, Mathematics, French, Philosophy, Political Science, Psychology, Religious Studies, Sociology, and Women’s Studies. It is also possible to take double honours in any two of these subjects.

b. The following represent the minimum requirements for admission to, continuance in, and graduation from an honours program in Arts. For information about specific program requirements (which in some cases exceed these minimum requirements) consult the appropriate departmental and subject area statements.

9. Admission Requirements for Honours Program

a. Normally, after completing eighteen (18) credit hours in the discipline, or with the completion of sixty (60) credit hours, students should make application for admission to the honours program on the special form obtainable from the Registrar.

b. The prerequisite for honours is a minimum cumulative grade point average of 3.00. Students, however, will be assessed on the basis of their overall academic record.

10. Requirements for Continuance in and for Graduation with Honours

- a. Students must earn a minimum of one hundred and twenty (120) credit hours.
- b. To continue in the program, students must achieve a minimum degree grade point average of 3.00. Students are advised that some academic units have stipulated a higher minimum cumulative grade point average.
- c. To graduate, students must achieve a minimum degree grade point average of 3.00. Students are advised that some academic units have stipulated a higher minimum cumulative grade point average.
- d. Students must complete not fewer than sixty (60) credit hours in the honours subject, of which forty-eight (48) credit hours must be at the 2000 level or above. Each year the students' programs must have the approval of the Chairperson of the academic unit who may permit the substitution of up to twelve (12) credit hours from a related subject area as part of the sixty (60) credit hours required.
- e. In the courses presented to satisfy 10(d), students must have a minimum grade point average of 3.00 with grades of B or higher in at least forty-eight (48) credit hours and no grade lower than C (2.00).

11. Requirements for Graduation with Double Honours

- a. For a double honours degree, students must complete not fewer than forty-two (42) credit hours in each of two honours subjects. At least sixty (60) of these credit hours must be at the 2000 level or above, including a minimum of twenty-four (24) credit hours in each subject. Each year, the students' programs must have the approval of the Chairpersons of both departments involved.
- b. To continue in the program, students must achieve a minimum cumulative grade point average of 3.00.
- c. To graduate, students must achieve a minimum degree grade point average of 3.00.
- d. In the courses presented to satisfy 11(a), students must have a minimum grade point average of 3.00 with grades of B or higher in at least sixty-six (66) credit hours, and no grade lower than C (2.00).

12. Additional Requirements for Graduation with Honours and Double Honours

For honours, students must complete the requirements for the Bachelor of Arts degree as outlined in the *Academic Calendar* (see no. 3), and any additional requirements of the relevant academic unit.

13. Students who fail to meet the requirements for an honours degree but who otherwise meet the requirements for a degree with a major, on formal application, may be eligible to be awarded the general degree.

14. In addition to the overall grade point average noted in 10 above, every student in honours must attain a minimum grade point average of 3.00 in the honours subject(s), with grades of C in no more than twelve (12) credit hours, and no grade lower than C, in the same subject(s). Students are advised that some academic units have stipulated a higher minimum cumulative grade point average.

15. Co-operative Education Programs

At the present time, the only Co-operative Education program in the Faculty of Arts is in Psychology. The regulations are the same as those for the B.Sc..

Dual Bachelor Degree Programs

Since it is possible to pursue two bachelor degrees from Saint Mary's University, students may desire to arrange their courses so as to obtain a bachelor degree in any two of the following three Faculties – Arts, Science, or Commerce.

While the total time required is somewhat longer, such dual degree programs are quite feasible. In essence, students have to fulfill the degree requirements of each faculty with respect to required courses. Courses which are common to both degree programs and electives can be counted toward both degree programs.

Students who contemplate pursuing any dual degree program should consult with the Deans of both Faculties before embarking on their program of study.

If a student opts to graduate after completing only one of the degree programs, and subsequently wishes to complete the second program, the requirements are those for a second undergraduate degree as stated in Academic Regulation 24.

Second Undergraduate Degrees

At least half of the credits presented in fulfillment of a second undergraduate degree must have been taken at Saint Mary's after the conferring of the first degree. Students wishing to complete a second undergraduate degree at Saint Mary's should consult Academic Regulation 25, Section 2 of this *Academic Calendar*.

Sobey School of Business

Dr. David Wicks, Acting Dean
 Dr. Jeff Power, Acting Associate Dean
 Dr. Gordon Fullerton, Acting Associate Dean, Masters Programs

General Information

Frank H. Sobey, a Canadian entrepreneur whose dedication, creativity and hard work built an extensive retail empire, including Canada's second largest food retailer, is the inspiration of the Sobey School of Business. The leading business school in Atlantic Canada, the Sobey School offers a full range of graduate and undergraduate programs:

- Bachelor of Commerce
- Bachelor of Commerce (Honours) in Economics
- Certificate in Human Resource Management
- Master of Business Administration
- Master of Business Administration / Certified Management Accountant
- Master of Finance (restricted admission)
- Master of Management – Co-operatives and Credit Unions (restricted admission)
- Executive Master of Business Administration
- Doctor of Philosophy in Business Administration (Management)

The four-year Bachelor of Commerce program provides a strong foundation of general knowledge and skills, followed by an opportunity to specialize. After the two-year foundation program, students choose a major area of study in Accounting, Computing and Information Systems, Economics, Finance, General Business Studies, Global Business Management, Human Resource Management and Industrial Relations, Management, Marketing, or Small Business and Entrepreneurship. A cooperative education option, placements at the Sobey Business Development Centre and study-abroad opportunities are available to qualified students.

A certificate program in Human Resource Management can be completed independently or concurrently with a Bachelor of Commerce. For information on these programs see Section 5 of the Calendar: Department of Management.

The two-year MBA program provides a solid foundation in business and economics to prepare managers in business, government, and not-for-profit organizations. The MBA is a generalist degree, although concentrations are offered in Finance, Human Resource Management, Information Systems, International Business, Marketing, and Management Consulting. Students with a strong undergraduate degree in business may complete a 12 month accelerated MBA. Interested students can earn a Certified Management Accountant designation and an MBA degree concurrently. An Executive Master of Business Administration program is offered to qualified middle and senior managers. A Master of Finance program prepares students for careers as financial analysts and portfolio managers in

the People's Republic of China. A web-delivered Master of Management is offered to managers of co-operatives and credit unions around the globe. For detailed descriptions, see Graduate Programs: Sobey School of Business.

The doctoral program in Business Administration (Management) prepares researchers for academe, the public sector, and private industry. The program focuses on human resource management and organizational behaviour. For a detailed description, see Graduate Programs: Sobey School of Business.

Sobey School of Business – Undergraduate Programs

Acting Associate Dean: Dr. Jeff Power
 Program Manager: Ms. Lois Wasteneys

Bachelor of Commerce

The following requirements apply to all entering Commerce students.

1. a. The Bachelor of Commerce program consists of one hundred and twenty (120) credit hours beyond Nova Scotia Grade 12 (or equivalent). Students lacking the equivalent of Nova Scotia Grade 12 may be required to complete additional courses as specified by the Dean. Courses beginning with zero (0) are designated preparatory and will not be credited toward any degree, diploma or certificate.

b. Nova Scotia Community College (NSCC) students who have completed, within a five year period from the date of admission to Saint Mary's, a one or two year certificate and/or selected diploma programs and have been granted admission to the Faculty of Commerce may be granted advanced standing credits. Contact the Office of the Sobey School of Business for details.

c. To receive a Saint Mary's University Bachelor of Commerce, transfer students must complete all requirements for the degree as stipulated in this *Academic Calendar*.

2. In conformity with academic regulation 7c (i) students must achieve a minimum degree grade point average of 1.70 in order to qualify for graduation. Honours and co-operative education students must attain a minimum degree grade point average of 3.00.

3. During the regular academic year a full time student will normally take the equivalent of thirty (30) credit hours. (See academic regulation 1.)

4. For the degree of Bachelor of Commerce, each student is required to complete successfully the courses listed in regulation 6 below in Year 1 and Year 2. Students are expected to select a major at the end of Year 2. Requirements for Year 3 and Year 4 depend upon the major selected. Courses for each major are given in regulation 7.

Credit value of each course is indicated in parenthesis after the course number. They are arranged by year as a guide to students in preparing their individual programs of study.

5. a. ENGL 1205.1(.2) is required of all students.

b. Nova Scotia Grade 12 Academic Mathematics (or equivalent) is a prerequisite for MGSC 1205.1(.2) and 1206.1(.2). In the event that students did not have Nova Scotia Grade 12 Academic Mathematics on admission, they are required to upgrade their mathematical knowledge prior to taking MGSC 1205.1 (.2) and 1206.1 (.2).

c. All undergraduate Commerce students are required to successfully complete at least twenty-four (24) credit hours offered outside of the Sobey School of Business. Non-Commerce courses taken in lieu of Commerce courses cannot be counted as non-Commerce electives.

6. Requirements for Year 1 and Year 2

Students required to complete additional courses due to background deficiencies should consult the Undergraduate Program Manager.

Year 1

CISY 1225.1(.2) Introduction to Computer Applications
MGSC 1205.1(.2) Quantitative Methods I
MGSC 1206.1(.2) Quantitative Methods II
MGMT 1281.1(.2) Introduction to Business Management
ECON 1201.1(.2) Principles of Economics: Micro
ECON 1202.1(.2) Principles of Economics: Macro
ENGL 1205.1(.2) An Introduction to Literature
Nine (9) non-Commerce elective credit hours

Note: Students who are planning to major in Global Business Management are advised to take a language course for six (6) credit hours of their non-Commerce elective.

Year 2

MGSC 2207.1(.2) Introductory Statistics
ACCT 2241.1(.2) Introductory Financial Accounting
ACCT 2242.1(.2) Introductory Managerial Accounting
MKTG 2270.1(.2) Introduction to Marketing
MGMT 2383.1(.2) Organizational Behaviour Micro
MGMT 2384.1(.2) Organizational Behaviour Macro
CMLW 2201.1(.2) Legal Aspects of Business – Part I
COMM 2293.1(.2) Communications
Three (3) credit hours in Economics electives – see note below
Three (3) credit hours in non-Commerce electives

Notes:

- (i) It is recommended that students planning to major in Economics take ECON 3300.1(.2) or ECON 3301.1(.2).
- (ii) Students who are interested in a Human Resource Management major are advised to take ECON 3340.1(.2).
- (iii) Other Commerce students may take any three (3) credit hour courses in Economics for which they have the necessary prerequisites.

7. Requirements for Year 3 and Year 4

Students are also required to complete a major in Accounting, Computing and Information Systems, Economics, Finance, Global Business Management, Management,

Marketing, Human Resource Management and Industrial Relations, General Business Studies, or Small Business and Entrepreneurship. Students are expected to choose a major by the end of Year 2. Further details on the required courses for these majors can be found in Section 5, Description of Courses, in this *Calendar*.

It is possible for students to double major in two areas. Students must fulfill the requirements for both. This may require more than 120 credit hours for the degree. **Students may not combine the General Business Studies major with any other major.**

MGMT 3480.1 (.2) is a compulsory course that must be taken in third or fourth year. With permission of the Department of Management Chairperson, it can under some circumstances also be taken in second year.

The Year 3 and Year 4 requirements are listed below by major and programs where applicable.

Note: A Non-Commerce elective is a course taken in the Faculties of Arts or Science. A free elective is a course taken in any Faculty.

a. Accounting Major

Year 3

ACCT 3323.1(.2) Management Information Systems I
ACCT 3333.1(.2) Cost Management: Measurement Systems
ACCT 3334.1(.2) Cost Management: Systems Evaluation
ACCT 3341.1(.2) Intermediate Financial Accounting I
ACCT 3342.1(.2) Intermediate Financial Accounting II
ACCT 3345.1(.2) Financial Accounting Theory
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Three (3) credit hours in free electives

Year 4

ACCT 4455.1(.2) Financial Accounting Seminar
or
ACCT 4470.1(.2) Management Accounting Seminar
Six (6) credit hours in Accounting electives – see note (i) below
MGMT 4489.1(.2) Strategic Management
Twelve (12) credit hours in non-Commerce electives
Six (6) credit hours in free electives – see note (ii) below

Notes:

- (i) CISY 2324.1(.2), CISY 3326.1(.2), or CISY 4435.1(.2) as well as ACCT 3357.1(.2) or any 4000 level course in Accounting not used to fulfill other requirements may be used to satisfy this requirement.
- (ii) CMLW 3202.1(.2) is normally required by professional accounting associations and may be taken as a free elective.

b. Economics Major

Year 3

Three (3) credit hours in Economics electives at the 3000 level or above
ECON 3300.1(.2) Intermediate Microeconomic Theory – see note below
ECON 3301.1(.2) Intermediate Macroeconomic Theory – see note below

ECON 4400.1(.2) Advanced Microeconomic Theory
or
ECON 4401.1(.2) Advanced Macroeconomic Theory
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Six (6) credit hours in humanities or language electives
[Classics, History, Philosophy (except PHIL 1200.0),
Religious Studies, English, or Modern Languages]
Three (3) credit hours in free electives

Note: It is recommended that students planning to major in Economics take ECON 3300.1 (.2) or 3301.1 (.2) in Year 2.

Year 4

Three (3) credit hours in Economics electives at 4000 level
Six (6) credit hours Economics electives at 3000 level or
above
MGMT 4489.1(.2) Strategic Management
Six (6) credit hours in social sciences (excluding
Economics) elective [Anthropology, Geography, Political
Science, Sociology, or Psychology]
Twelve (12) credit hours in free electives

c. Computing and Information Systems Major

Year 3

ACCT 3323.1(.2) Management Information Systems
CISY 2320.1(.2) Business Applications Programming
CISY 3326.1(.2) Database Programming
CISY 3327.1(.2) Web Information Systems
CISY 3328.1(.2) Computer Organization
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Six (6) credit hours in non-commerce electives

Year 4

CISY 4425.1(.2) System Analysis and Design
CISY 4435.1(.2) Information Systems Projects & Practice
CISY 4436.1(.2) Communication Networks and Security
MGMT 4489.1(.2) Strategic Management
Six (6) credit hours in non-commerce electives
Twelve (12) credit hours in free electives

d. Finance Major

Year 3

ACCT 3343.1(.2) Financial Accounting Analysis
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Three (3) credit hours in Commerce electives at 3000 level
or above
Six (6) credit hours in non-commerce electives
Nine (9) credit hours in free electives

Year 4

FINA 4463.1(.2) Financial Management
FINA 4466.1(.2) Investments
FINA 4467.1(.2) Portfolio Management
MGMT 4489.1(.2) Strategic Management
Six (6) credit hours in Finance electives at 4000 level

except FINA 4491.1(.2) [ACCT 4445.1(.2) and ECON
4403.1(.2) may be used to satisfy this requirement.]
Six (6) credit hours in non-commerce electives
Six (6) credit hours in free electives

e. Management Major

Year 3

ACCT 3332.1(.2) Planning and Control
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
MGSC 3317.1(.2) Operations Management
Three (3) credit hours in Accounting electives
Six (6) credit hours in Marketing electives
Three (3) credit hours in Commerce electives
Three (3) credit hours in free electives

Year 4

MGMT 3385.1(.2) Human Resource Management
MGMT 3386.1(.2) Industrial Relations
MGMT 4481.1(.2) Organization Theory: Structure, Process,
Analysis and Design
MGMT 4489.1(.2) Strategic Management
Three (3) credit hours in Finance electives
Twelve (12) credit hours in non-Commerce electives
Three (3) credit hours in free electives

f. Marketing Major

Year 3

FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
MKTG 3376.1(.2) Consumer Behaviour
MKTG 3378.1(.2) Marketing Research
MKTG 3379.1(.2) Marketing Management
Nine (9) credit hours in non-commerce electives
Three (3) credit hours in free electives

Year 4

MGMT 4489.1(.2) Strategic Management
MKTG 4479.1(.2) Marketing Policy
Six (6) credit hours in Marketing electives
Six (6) credit hours in non-commerce electives
Twelve (12) credit hours free electives

g. Human Resource Management and Industrial Relations Major

Year 3

ACCT 3332.1(.2) Planning and Control
ECON 3340.1(.2) Human Resource Economics
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3385.1(.2) Human Resource Management
MGMT 3386.1(.2) Industrial Relations
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Nine (9) credit hours in free electives – see note below

Year 4

MGMT 4482.1(.2) Staffing and Selection
MGMT 4483.1(.2) Management Skills I
MGMT 4485.1(.2) Wage and Salary Administration

MGMT 4486.1(.2) Training and Development
MGMT 4489.1(.2) Strategic Management
Twelve (12) credit hours in non-commerce electives
Three (3) credit hours in free electives

Notes:

- (i) If ECON 3340.1(.2) was used to satisfy the required Economics elective in Year 2, the number of free electives credits is increased to nine (9) credit hours.
- (ii) Students who successfully complete the above requirements for the Human Resource Management major will automatically be granted the Certificate in Human Resource Management.

h. General Business Studies Major

Students may not combine the General Business Studies Major with any other major.

Year 3

ACCT 3332.1(.2) Planning and Control
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
Nine (9) credit hours in Commerce electives at 3000 level or above
Six (6) credit hours in non-commerce electives
Three (3) credit hours in free electives

Year 4

MGMT 4489.1(.2) Strategic Management
Nine (9) credit hours in Commerce electives at 3000 level or above
Six (6) credit hours in non-commerce electives
Twelve (12) credit hours in free electives

i. Small Business and Entrepreneurship Major

Year 3

ACCT 3332.1(.2) Planning and Control
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3389.1(.2) Structuring the Start-Up
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
MGMT 4494.1(.2) Entrepreneurship: Theory and Concepts
Six (6) credit hours in non-Commerce electives
Six (6) credit hours in free electives

Year 4

MGMT 3380.1(.2) Family Business
MGMT 4487.1(.2) New Venture Opportunities
MGMT 4489.1(.2) Strategic Management
MGMT 4495.1(.2) Small Business Performance Improvement
Six (6) credit hours in non-Commerce electives
Twelve (12) credit hours in free electives

j. Global Business Management Major

Complete details on this major are described in the “Global Business Management” entry in Section 5 of this *Calendar*. This program is administered by the Department of Management. Students are advised that they should take

their language requirements as early as possible in their program so that later they will have increased flexibility in choosing their courses. Students are responsible to schedule their classes to meet prerequisite requirements for their advanced courses.

Year 3

ACCT 3332.1(.2) Planning and Control
ACCT 3357.1(.2) International Accounting
FINA 2360.1(.2) Business Finance I
FINA 3361.1(.2) Business Finance II
MGMT 3480.1(.2) Ethical Responsibilities of Organizations
MKTG 3375.1(.2) International Marketing
Six (6) credit hours in Modern Language (except English) electives [Arabic, Chinese, French, German, Japanese, or Spanish] – see notes (i), (iii) and (iv) below
Six (6) credit hours in Geographic electives – see note (ii) below

Year 4

FINA 4476.1(.2) International Finance
MGMT 4488.1(.2) International Business
MGMT 4489.1(.2) Strategic Management
Six (6) credit hours in Modern Language (except English) electives [Arabic, Chinese, French, German, Japanese, or Spanish] – see notes (i), (iii) and (iv) below
Six (6) credit hours in Geographic electives – see note (iv) below
Six (6) credit hours in cognate electives – see note (v) below
Three (3) credit hours in free electives

Notes:

- (i) If the non-Commerce elective in Year 1 was a Modern Language, then this requirement can be replaced with six (6) credit hours in free electives.
- (ii) Six (6) credit hours in electives must be selected from the following regions: Africa, Americas, Asia, or Europe. Approved courses for each region are listed in the entry “Global Business Management” in Section 5 of this *Calendar*.
- (iii) Credit must be in the same language as Year 3 language credit.
- (iv) Six (6) credit hours in electives must be selected from one of the following areas: Africa, Americas, Asia, or Europe.
- (v) Six (6) credit hours in electives must be selected from the approved list of cognate credits found in the “Global Business Management” entry in Section 5 of this *Calendar*. If ECON 3310.1(.2), ECON 3312.1(.2), ECON 3315.1(.2), ECON 3365.1(.2), ECON 4410.1(.2), ECON 4412.1(.2), ECON 4413.1(.2), or ECON 4414.1(.2) was used to satisfy the Economics elective in Year 2, the number of free electives at the 2000 level or above is increased by three (3) credit hours.
- (vi) In cases where a student is fluent in two languages, other courses relevant to the major may be substituted for the language credits with the approval of the Program Coordinator.
- (vii) Notwithstanding the course substitutions possible in (i), (v), and (vi) above, all students must complete at least twenty-four (24) credit hours in non-Commerce electives.

Bachelor of Commerce Degree (Honours – Economics)

1. Admission Requirements

a. Minimum grade point average of 3.00 at the end of Year 2.

b. Students must make application for admission to the Honours program on the special form obtainable from the Registrar no later than the last day of registration at the beginning of Year 3. They must obtain the approval of the Chairperson of the Economics Department and of the Dean of Sobey School of Business.

2. Requirements for Continuance and Graduation

a. To continue in the program and to graduate, students must maintain a minimum cumulative grade point average of 3.00.

b. The specific course requirements of the program are:

Year 1

CISY 1225.1(.2) Introduction to Computer Applications
 MGSC 1205.1(.2) Introduction to Quantitative Methods I
 *MGSC 1206.1(.2) Introduction to Quantitative Methods II
 MGMT 1281.1(.2) Introduction to Business Management
 *ECON 1201.1(.2) Principles of Economics: Micro
 *ECON 1202.1(.2) Principles of Economics: Macro
 ENGL 1205.1(.2) An Introduction to Literature
 Six (6) credit hours in humanities electives [Classics, History, Philosophy (except PHIL 1200.0), Religious Studies, English, or Modern Languages]
 Three (3) credit hours in non-Commerce electives

Year 2

*MGSC 2207.1(.2) Introductory Statistics
 ACCT 2241.1(.2) Introductory Financial Accounting
 ACCT 2242.1(.2) Introductory Managerial Accounting
 MKTG 2270.1(.2) Introduction to Marketing
 MGMT 2383.1(.2) Organizational Behaviour Micro
 MGMT 2384.1(.2) Organizational Behaviour Macro
 CMLW 2201.1(.2) Legal Aspects of Business – Part I
 COMM 2293.1(.2) Communications
 *ECON 3300.1(.2) Intermediate Microeconomic Theory
 *ECON 3301.1(.2) Intermediate Macroeconomic Theory

Year 3

FINA 2360.1(.2) Business Finance I
 FINA 3361.1(.2) Business Finance II
 *ECON 3302.1(.2) Mathematical Economics
 *ECON 3303.1(.2) Intermediate Economic Statistics
 *ECON 4400.1(.2) Advanced Microeconomic Theory
 *ECON 4401.1(.2) Advanced Macroeconomic Theory
 MGMT 3480.1(.2) Ethical Responsibilities of Organizations
 * Three (3) credit hours in Economics electives
 Six (6) credit hours in social science electives (Anthropology, Geography, Political Science, Sociology, or Psychology but not Economics)

Year 4

MGMT 4489.1(.2) Strategic Management
 *ECON 4403.1(.2) Econometrics
 *ECON 4404.1(.2) Special Topics in Microeconomics
 or
 *ECON 4405.1(.2) Special Topics in Macroeconomics
 *ECON 4498.1(.2) Research Seminar in Economics
 *ECON 4499.1(.2) Honours Project in Economics or another three (3) credit hours in an advanced economics course approved by the chairperson
 *Fifteen (15) credit hours in Economics electives

c. For courses marked with an asterisk (*), no grade below a C is acceptable and at least forty-eight (48) credit hours must have a grade of B or higher.

d. With the approval of the Chairperson of the Economics Department, a student may be permitted to substitute up to twelve (12) credit hours from a related subject for Year 3 and Year 4 required Economics courses.

e. With the approval of the Chairperson of the Economics Department, a student may substitute nine (9) credit hours from the Department of Mathematics and Computing Science for ECON 3302.1(.2), 3303.1(.2), and 4403.1(.2).

f. Commerce students doing an honours in economics are permitted to count nine (9) economics credit hours at the 3000-level or above as non-commerce electives.

Minors for Students in the Sobey School of Business or offered by the Sobey School of Business for Non-Commerce Students

Students in the Sobey School of Business are permitted to declare a minor in a subject taught in the Faculty of Arts or Faculty of Science from those academic units which currently offer this program option. The specific requirements for minor programs are those set forth by the host academic unit. While students may take a minor in another Faculty, they must fulfill the requirements of the degree in which they are registered, including officially declaring and fulfilling the requirements for a major or honours (or in the case of Science, a concentration).

A minor in Business is available for students pursuing a Bachelor of Arts or Bachelor of Science degree. This minor consists of the equivalent of thirty (30) credit hours, namely:

ACCT 2241.1(.2) Introductory Financial Accounting
 ACCT 2242.1(.2) Introductory Managerial Accounting
 CISY 1225.1(.2) Introduction to Computer Applications
 CMLW 2201.1(.2) Legal Aspects of Business I
 COMM 2293.1(.2) Communications
 MGMT 1281.1(.2) Introduction to Business Management
 MGMT 2383.1(.2) Micro Organizational Behaviour
 or MGMT 2384.1(.2) Macro Organizational Behaviour
 MKTG 2270.1(.2) Introduction to Marketing
 Six (6) credit hours in electives in Commerce subjects

Notes:

(i) This minor is not available to students pursuing a Bachelor of Commerce degree. The regular “Declaration of Major/Minor/Concentration” form is to be used to declare a minor. Students must fulfill all requirements for any minor(s) which they officially declared in order to qualify for graduation, or officially (i.e., in writing) withdraw their declaration of a minor(s).

(ii) A minimum cumulative grade point average of 2.00 is required for the minor in Business.

Cooperative Education Programs

Sobey School of Business

Cooperative Education Advisor Karen Lightstone

The Sobey School of Business offers cooperative education options to the Bachelor of Commerce program. Cooperative education is a dynamic approach to university education which integrates academic classroom studies with related practical work experiences outside the formal university environment. The principle upon which this concept is based is that learning and individual development are greatly enhanced when the concepts studied in the classroom are periodically applied, tested and observed by the students in meaningful work situations. Through this program, participating businesses have an excellent opportunity to observe and influence the education of bright enthusiastic students. They also benefit from the access gained to university faculty and expertise, while university faculty and students become aware of the concerns of business and the varied problems which they face. Ms. Mary Ellen MacEachern serves as Liaison Officer of the Cooperative Education Programs.

1. Admission Requirements for Undergraduate Cooperative Education Programs

- a. Enrolment in the cooperative education option is limited and admission is on a competitive basis. The requirements listed below are the normal minimums. Satisfying these requirements does not guarantee admission.
- b. Students are considered for admission to the cooperative education option in the Faculty of Commerce after the completion of forty-five (45) credit hours. Normally, this will occur at the end of the first semester of the second year.
- c. The normal admission requirement to the cooperative education program in a regular Bachelor of Commerce program is a minimum cumulative grade point average of 3.00.
- d. Candidates will be admitted to a cooperative education program on the basis of their interest, aptitude, and assessed ability to combine successfully the academic requirements of a major program together with the special work-term requirements of the program.

2. Requirements for Continuance in and Graduation from the Cooperative Education Program

a. Students must complete all of the regular requirements for a Bachelor of Commerce (see regulations 1 through 7 in the Bachelor of Commerce section of the *Calendar*). Students are advised that for some majors, pursuing a cooperative education option may complicate course scheduling and therefore delay degree completion. It is the student’s responsibility to schedule their courses to satisfy major requirements.

b. In addition to the above requirements, students must officially register for and complete three work experiences.

c. To continue in and graduate from the cooperative education program, students must earn a minimum grade point average of 3.00.

3. Policies and Regulations Governing Cooperative Education Work Terms

a. The University will make every effort to locate work term positions for co-operative education students in academically related areas of employment, but cannot guarantee placements. Employment settings may also be identified by cooperative education students, but require the approval of the Commerce Cooperative Education Program Advisor.

b. The satisfactory fulfillment of cooperative education work terms require:

- (i) the completion of three terms of work experience in academically related paid employment situations of 13 to 16 weeks duration. Under certain circumstances, and with the approval of the appropriate department, students may be permitted to satisfy their work terms requirements in an unpaid position. Self-employment will be considered.
- (ii) a satisfactory employer evaluation for each cooperative education work term (self-employed students will be evaluated by an individual selected by the department);
- (iii) the satisfactory completion of a written report submitted within 30 days after the end of each work term detailing the student’s work experience.

c. A notation will be included on students’ academic transcripts following satisfactory completion of each work term.

d. Graduating students who have successfully completed their co-operative work term requirements will have this noted on their academic transcripts. If, in addition, all other normal academic requirements are fulfilled, a “Cooperative Education” notation will be printed on their parchments.

e. Students may be required to withdraw from the co-operative education option of their degree if:

- (i) they are dismissed from, quit, or fail to accept an appropriate and approved cooperative work term position;
- (ii) they fail to submit or successfully complete a work term report;

(iii) they do not maintain the required grade point average necessary for continuance in the Cooperative Education Program;

(iv) in the judgment of the faculty, they are no longer suited for the particular requirements of the Co-operative Education Program.

f. Students who voluntarily withdraw from or who are required to withdraw from the Cooperative Education Program may remain enrolled in and continue with the major or honours degree program offered by their department.

g. Cooperative Education students will be expected to attend any special seminars or colloquia developed by the Sobey School of Business, or the Cooperative Education Department, which deal with employment orientation and the application of formal academic study to work experiences.

h. Academic study during work terms is discouraged. No more than six (6) credit hours may be taken during a work term. Up to six (6) credit hours within the student's major subject may be taken on a Letter of Permission at another institution. This waiver of normal University policy is permitted only for study during work terms and only if the courses cannot be taken at Saint Mary's University due to program sequencing.

4. Registration and Fees for Cooperative Education

a. Students are required to register for all work terms, according to normal registration procedures, including all stipulated deadlines. Work terms will be officially designated on students' transcripts as:

Work Term 1 = COOP 1000.1(.2)
 Work Term 2 = COOP 2000.1(.2)
 Work Term 3 = COOP 3000.1(.2)

b. Students pay for their academic courses and work terms as they take them.

5. Timing and Sequencing of Work Terms

The basic principles behind a co-op education are that (a) work terms should build upon the studies in the preceding semester(s) and (b) work terms should enrich subsequent study terms. Ideally, work terms and study terms should alternate after the student has an academic foundation suitable for the first work term.

a. Normally, the first work term will commence after the completion of the requirements for years 1 and 2 of the Bachelor of Commerce degree program.

b. A "study term" is a semester of full-time study [minimum of 3 courses (nine (9) credit hours)]. Normally students must end their program with a study term.

c. Normally, at least one work term must be in the fall or winter semester. That is, students are not permitted to complete all work terms in the summer.

d. Back to back work terms are permissible with prior approval of the Commerce Co-op Advisor. These work terms must be with different employers or require significantly different job descriptions if with the same employer. Normally, students must make application to the Sobey School of Business Cooperative Education Advisor not less than one month before the start of the second work term, providing justification for back to back work terms and a job description for the second work term.

e. Three work terms in succession, with no intervening full-time study term, are not permitted.

f. Students may "stop out" for a semester, i.e., have a semester that is neither a work term nor a study term. Students must make application to the Commerce Co-op Advisor at least one month before the start of the "stop out" semester.

Dual Bachelor Degree Programs

Since it is possible to pursue two bachelor degrees from Saint Mary's University, students may desire to arrange their courses so as to obtain a bachelor degree in any two of the following three Faculties – Arts, Science, or Commerce.

While the total time required is somewhat longer, such dual degree programs are quite feasible. Students must fulfill the degree requirements of each faculty with respect to required courses. Courses which are common to both degree programs and electives can be counted toward both degree programs.

Students who contemplate pursuing any dual degree program should consult with the Deans of both Faculties before embarking on their program of study.

If a student opts to graduate after completing only one of the degree programs, and subsequently wishes to complete the second program, the requirements are those for a second undergraduate degree as stated in academic regulation 24.

Second Undergraduate Degrees

At least half of the credits presented in fulfillment of a second undergraduate degree must have been taken at Saint Mary's after the conferring of the first degree. Students wishing to complete a second undergraduate degree at Saint Mary's should consult Academic Regulation 25, Section 2 of this *Academic Calendar*.

Information concerning the Sobey School of Business' programs at the graduate level is found later in this *Academic Calendar*.

Faculty of Science

Dr. David H. S. Richardson, Dean
 Dr. William A. Bridgeo, Dean Emeritus
 Dr. Douglas H. Williamson, Dean Emeritus

General Information

Students electing to pursue a program leading to the Bachelor of Science degree should consider which of three programs best suits their aspirations.

Honours

The honours program demands a minimum grade of C in all courses followed in the honours subject. (Particular requirements for the honours in Environmental Studies are found in this *Academic Calendar*, Section 5, “Environmental Studies”). These honours programs are designed primarily for students who wish to proceed to graduate work or who wish to obtain professional status in the area of the honours subject. Students of above-average ability are urged to contact the Chair of the Department in which they wish to follow an honours program before the end of Year 3 for application details. Formal application for admission to an honours program must be made on a form available in the Registrar’s Office.

Major

The major program demands a minimum grade of C in all courses in the major subject. (Particular requirements for the major in Environmental Studies are found in this *Academic Calendar*, Section 5, “Environmental Studies”). The major program is designed to meet the needs of those students who wish to be employed in work related to the area of their major. It will be useful to those wishing to practice as technicians or technical officers. Additionally, this program permits students to prepare adequately for continued study at the graduate level, if warranted by performance and motivation.

General

The general program is designed to give a person a good educational background for life in today’s technological world, and an understanding of the importance of the relationship between science and society. The general program is broader in scope than the major or honours programs, and students are encouraged to supplement their science studies with courses in the humanities and social sciences.

Faculty of Science – Undergraduate Programs

The following are considered “science subjects” at Saint Mary’s University: Astronomy, Biology, Chemistry, Computing Science, Environmental Studies, Geology, Mathematics, Physics and Psychology.

Bachelor of Science – General (With a Concentration)

1. A concentration program can be taken in the following disciplines: Biology, Chemistry, Computing Science,

Geography, Geology, Mathematics, Physics or Psychology. Subject to the regulations set forth in this *Academic Calendar*, students must complete ninety (90) credit hours. Courses beginning with zero (0) are designed to prepare students for entry level course work and will not be credited towards any academic program.

Note: Students should note that at least 50% of all courses for any academic program must be taken at Saint Mary’s University and at least 50% of all courses taken in the concentration subject must be taken at Saint Mary’s University.

2. Students will normally take thirty (30) credit hours during the regular academic year.

3. For the degree of Bachelor of Science, students must successfully complete:

a. three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities: Classics, English other than ENGL 1205.1(.2), History, Philosophy, Religious Studies and Modern Languages (courses on literature and/or culture). Students planning to apply to professional schools, which require six (6) credit hours of writing components, are advised to take English 1205 (Introduction to Literature) and three (3) credit hour courses in English from among the ENGL 2300 to ENGL 2393 courses. These courses have been designated by the Department of English as having a major writing component

b. six (6) credit hours in Mathematics or Computing Science: either MATH 1210.1(.2) and one of MATH 1211.1(.2) or MATH 1216.1(.2); or CSCI 1226.1(.2) and CSCI 1227.1(.2);

c. twelve (12) credit hours in Arts subjects and/or Economics [except ECON 1205.1(.2), ECON 1206.1(.2), ECON 2207.1(.2)]; excluding Mathematics and Psychology. With respect to this regulation, all courses taught in Geography are considered Arts courses and all courses taught in Psychology [including PSYC 3348.1(.2)/WMST 3348.1(.2)] and Mathematics are considered Science courses and cannot fulfill this requirement. These twelve (12) credit hours are in addition to requirement (a) above;

d. not less than thirty (30) or more than forty-two (42) science credit hours in their area of concentration;

e. twenty-four (24) science credit hours not in the subject of concentration and in addition to the required Mathematics or Computing Science courses (see note below); excluding Geography, Engineering and Environmental Studies. With respect to this regulation, all courses taught in Psychology and Mathematics are considered Science courses and all courses taught in Geography are considered Arts courses and cannot fulfill this requirement; and

f. sufficient electives to complete the ninety (90) credit hours required for a general Bachelor of Science; and achieve a minimum degree grade point average of 1.70 in order to qualify for graduation with a Bachelor of Science degree.

Note: Students in the Faculty of Science are NOT permitted to use the following courses as “other sciences” in fulfilling the requirements of their academic program:

ASTR 1217.1(.2) Life in the Universe
 BIOL/ENVS 1203.0 Biology and the Human Environment
 CHEM 1220.1(.2) Chemistry and Industry
 CHEM 1221.1(.2) Chemistry of Life
 CHEM 2380.1(.2) Communications in Chemistry
 FRSC 2200.1(.2) Basic Sciences for Forensics I
 FRSC 2201.1(.2) Basic Sciences for Forensics II
 GEOL 1202.1(.2) Planet Earth: Atlantic Canada Perspective
 GEOL 1203.1(.2) Atlantic Canada: The Last Four Billion Years
 GEOL 1210.1(.2) Dinosaurs and Their World
 MATH 1190.1(.2) Pre-Calculus Review
 MATH 1202.1(.2) Concepts and Topics in Mathematics
 MATH 1203.1(.2) Concepts and Topics in High School Mathematics
 MATH 1207.1(.2) Survey of Statistics
 PSYC 1200.1(.2) Introduction to Psychology
 And excluding Geography, Engineering and Environmental Studies courses.

Bachelor of Science – Major

4. A major program can be taken in the following disciplines: Astrophysics, Biology, Chemistry, Computing Science, Environmental Studies, Geography, Geology, Mathematics, Physics or Psychology. Subject to the regulations set forth in this *Academic Calendar*, students must complete one hundred and twenty (120) credit hours. Courses beginning with zero (0) are designed to prepare students for entry level course work and will not be credited towards any academic program.

Note: Students should note that at least 50% of all courses for any academic program must be taken at Saint Mary’s University and at least 50% of all courses taken in the major subject must be taken at Saint Mary’s University.

5. Students will normally take thirty (30) credit hours during the regular academic year.

6. To earn a degree of Bachelor of Science with a major, students must successfully complete:

a. three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in the humanities [see 3(a) above];

b. six (6) credit hours in Mathematics or Computing Science: either MATH 1210.1(.2) and one of MATH 1211.1(.2) or MATH 1216.1(.2); or CSCI 1226.1(.2) and CSCI 1227.1(.2). For some Science majors, CSCI

1226.1(.2)/1227.1(.2) are not acceptable (see Section 5 in this *Calendar*);

c. twelve (12) credit hours in Arts subjects and/or Economics [except ECON 1205.1(.2), ECON 1206.1(.2), ECON 2207.1(.2)]; excluding Mathematics and Psychology. With respect to this regulation, all courses taught in Geography are considered Arts courses and all courses taught in Psychology [including PSYC 3348.1(.2)/WMST 3348.1(.2)] and Mathematics are considered Science courses and cannot fulfill this requirement. These twelve (12) credit hours are in addition to requirement (a) above; in addition to ENGL 1205.1(.2);

d. not less than forty-two (42) or more than fifty-four (54) credit hours in the major subject. The Astrophysics major requires forty-two (42) credit hours in Physics and eighteen (18) credit hours in Astronomy, namely, ASTR 1205 and ASTR 1206 plus twelve (12) credit hours at the 2000 level or above (or equivalent). The Computing Science major requires fifty-four (54) credit hours with a CSCI or MATH course designation, in addition to the Faculty of Science requirement 6(b);

e. twenty-four (24) science credit hours — not in the subject of major and excluding the following courses: ASTR 1217.1(.2); BIOL/ENVS 1203.0; CHEM 1220.1(.2), CHEM 1221.1(.2), CHEM 2380.1(.2); FRSC 2200.1(.2), FRSC 2201.1(.2); GEOL 1202.1(.2), GEOL 1203.1(.2), GEOL 1210.1(.2) ; MATH 1190.1(.2), MATH 1202.1(.2), MATH 1203.1(.2), MATH 1207.1(.2); and PSYC 1200.1(.2) — and in addition to the required Mathematics or Computing Science credit [six (6) credit hours]; excluding Geography, Engineering and Environmental Studies. With respect to this regulation, all courses taught in Psychology and Mathematics are considered Science courses and all courses taught in Geography are considered Arts courses and cannot fulfill this requirement;

f. sufficient elective credits to complete the one hundred and twenty (120) credit hours are required for a Bachelor of Science with a major; and achieve a minimum degree grade point average of 1.70 in order to qualify for graduation with a Bachelor of Science degree;

g. an additional three (3) credit hours in Mathematics or Computing Science is required for the major in chemistry; and

h. students must obtain a grade of at least C in all those courses used to satisfy section 6(d) above and any other courses in the major required by the academic unit unless given a written waiver by the Dean of Science, acting in consultation with the academic unit concerned.

Bachelor of Science – Double Major

7. With the approval of the chair of the academic units involved, students may pursue a double major program in any two science subjects (except Astrophysics). In addition to satisfying the requirements for the Bachelor of Science major (see above), students must complete the following:

Note: Students should note that at least 50% of all courses for any academic program must be taken at Saint Mary's University and at least 50% of all courses taken in the major subjects must be taken at Saint Mary's University.

- a. at least thirty-six (36) credit hours in each major subject;
 - b. twelve (12) science credit hours not in the major subjects and in addition to the required Mathematics or Computing Science credit [six (6) credit hours]; excluding Geography, Engineering and Environmental Studies. With respect to this regulation, all courses taught in Psychology and Mathematics are considered Science courses and all courses taught in Geography are considered Arts courses and cannot fulfill this requirement;
 - c. sufficient electives to complete the one hundred and twenty (120) credit hours required for a Bachelor of Science with a double major [exclusion list under Major 6(e) applies]; and achieve a minimum degree grade point average of 1.70 in order to qualify for graduation with a Bachelor of Science;
 - d. students must obtain a grade of at least C in all those courses used to satisfy section 7(a) above and any other courses in the major required by the academic unit unless given a written waiver by the Dean of Science, acting in consultation with the academic unit concerned.
8. Students programs must be approved by the department(s) in which the major is taken and must satisfy any core programs specified by the department(s) and approved by the Faculty of Science. These requirements may be waived in special cases by the Dean of Science who may approve a special program for the student in consultation with the department(s) concerned.
9. Students must obtain a program grade point average of at least 2.00 in the major subjects.

Bachelor of Science – Major and Minor

10. With the approval of the departments involved, students may pursue a major-minor program in any two science subjects (except astrophysics). Science students may also pursue a minor in another faculty (see details later in this section of the *Academic Calendar*). In addition to satisfying requirements for the Bachelor of Science major (see above), students must complete the following course requirements:

Note: Students should note that at least 50% of all courses for any academic program must be taken at Saint Mary's University and at least 50% of all courses taken in the major and minor subjects must be taken at Saint Mary's University.

- a. at least forty-two (42) credit hours in the major subject;
- b. at least thirty (30) credit hours in the minor subject;
- c. twelve (12) science credit hours not in the major or minor subjects, in addition to the required Mathematics or Computing Science credit [six (6) credit hours]; excluding Geography, Engineering and Environmental Studies. With respect to this regulation, all courses taught in Psychology and Mathematics are considered Science courses and all courses taught in Geography are considered Arts courses and cannot fulfill this requirement;
- d. sufficient electives to complete the one hundred and twenty (120) credit hours required for a Bachelor of Science with a major-minor;
- e. in addition, students must obtain a grade of not less than C in every course in both the major and the minor subjects. A student obtaining a grade of less than C in any such course will be permitted to continue in the major-minor program only with the approval of the Dean of Science, acting in consultation with the departments concerned.

Note: In conformity with academic regulation 7c (i) students must achieve a minimum degree grade point average of 1.70 in order to qualify for graduation with a Bachelor of Science degree – with a concentration, major, double major, or major-minor.

Bachelor of Science – Honours and Double Honours

11. An honours program can be taken in the following disciplines: Astrophysics, Biology, Chemistry, Computing Science, Environmental Studies, Geography, Geology, Mathematics, Physics or Psychology; or as a combination of any two of these subjects (except Astrophysics). Students who plan to take an honours program must have the approval of the honours department(s) and the Dean.

Note: Students should note that at least 50% of all courses for any academic program must be taken at Saint Mary's University and at least 50% of all courses taken in the honours and double honours subjects must be taken at Saint Mary's University.

12. For the Bachelor of Science degree with honours, students must complete the requirements for a major [i.e., 6(a), 6(b), and 6(c) above] and the following:

- a. sixty (60) to seventy-two (72) credit hours in the honours subject, or in double honours [see Science Regulation 12(d)]. The exceptions are: Astrophysics at least fifty-seven (57) credit hours in Physics and twenty-one (21) credit hours in Astronomy, namely, ASTR 1205 and ASTR 1206 plus fifteen (15) credit hours in Astronomy at the 2000 level or above (or equivalent); and Computing Science, in which a total of seventy-eight (78) credit hours in CSCI and MATH credits are required, in addition to the Faculty of Science requirement 6(b);
- b. twenty-four (24) credit hours not in the honours subject [six (6) credit hours in double honours, eighteen (18) credit

hours in Astrophysics and Computing Science] in addition to the required Mathematics and Computing Science credit [six (6) credit hours]; excluding Geography, Engineering and Environmental Studies. With respect to this regulation, all courses taught in Psychology and Mathematics are considered Science courses and all courses taught in Geography are considered Arts courses and cannot fulfill this requirement; [exclusion list under Major 6(e) apply];

c. sufficient electives to complete the one hundred and twenty (120) credit hours are required for a Bachelor of Science with honours.

d. For a double honours program, students must complete forty-eight (48) credit hours in the subject in which they are completing their thesis. (This includes the thesis and seminar course where relevant.) Students must complete forty-two (42) credit hours in their second honours subject, six (6) credit hours in another science, twelve (12) credit hours in Arts, as well as the required three (3) credit hours for English [ENGL 1205.1(.2)] and three (3) credit hours in the humanities, six (6) credit hours in Mathematics or Computing Science [MATH 1210.1(.2) and one of MATH 1211.1(.2) or MATH 1216.1(.2); or CSCI 1226.1(.2) and CSCI 1227.1(.2)] as stipulated in the departmental regulations] for a minimum of one hundred and twenty (120) credit hours. Entry into this double honours program requires approval by the chairs of the two departments and the Dean of Science.

e. For an honours and major program, students must complete sixty (60) credit hours in their honours subject. Students must complete thirty-six (36) credit hours in their major subjects, twelve (12) credit hours in another science, twelve (12) credit hours in Arts, as well as the required three (3) credit hours for English [ENGL 1205.1(.2)] and three (3) credit hours in the humanities, and six (6) credit hours in Mathematics or Computing Science [MATH 1210.1(.2) and one of MATH 1211.1(.2) or MATH 1216.1(.2); or CSCI 1226.1(.2) and CSCI 1227.1(.2)] as stipulated in the departmental regulations] for a minimum of one hundred and thirty-two (132) credit hours.

13. Students' academic programs must be approved by the department(s) involved.

14. For a Bachelor of Science degree with honours, students must obtain a degree grade point average of at least 3.00 in those courses used to satisfy the requirements of section 12, above. In cases where a course has been taken more than once for upgrading purposes, only the latest instance of the course will be used to evaluate graduation standing.

Bachelor of Science (Major in Computing Science and Business Administration)

For details on this program, please consult the "Computing Science and Business Administration" entry under Mathematics and Computing Science in Section 5 of this *Academic Calendar*.

Bachelor of Science (Major in Geography)

For details on this program please consult the "Geography" entry in Section 5 of this *Academic Calendar*.

Bachelor of Science (Geology/Commerce)

For details on this program, please consult the "Geology" entry in Section 5 of this *Academic Calendar*.

Combined Co-operative Education Program in Commerce/Geology

Students enrolled in the combined commerce/geology major/honours may also pursue a co-op option in this dual program. Applications to and completion of this combined option is the same as those for other Science co-op major/honours programs.

Bachelor of Science (Major/Honours in Geology/Geography)

For details on this program, please consult the "Geology" entry in Section 5 of this *Academic Calendar*.

Bachelor of Science (Major/Honours in Environmental Studies)

For details on this program, please consult the "Environmental Studies" entry in Section 5 of this *Academic Calendar*.

Dual Bachelor Degree Programs

Since it is possible to pursue two bachelor degrees from Saint Mary's University, students may desire to arrange their courses so as to obtain a bachelor degree in any two of the following three Faculties – Arts, Commerce, or Science.

While the total time required is somewhat longer, such dual degree programs are quite feasible. In essence, students have to fulfill the degree requirements of each Faculty with respect to required courses. Courses which are common to both degree programs and electives can be counted toward both degree programs. The minimum degree grade point average for graduation is 3.00.

Students who contemplate pursuing any dual degree program should consult with the Deans of both Faculties before embarking on their program of study.

If a student opts to graduate after completing only one of the degree programs, and subsequently wishes to complete the second program, the requirements are those for a second undergraduate degree as stated in academic regulation 24.

Minor for Students in the Faculty of Science

Students in the Faculty of Science are permitted to declare a minor in a subject taught in the Faculty of Arts or Faculty of Commerce from those academic units which currently offer this program option. The specific requirements for minor programs will be those set forth by the host academic unit and that while students may take a minor in another Faculty, they must fulfill the requirements of the degree in which they are registered, including officially declaring and fulfilling the requirements for a major or honours (or in the case of Science, a concentration).

A minor in Film Studies is available to undergraduate students in all three faculties. Details are found in Section 5 of the *Calendar*.

A minor in the Sobey School of Business is available for students pursuing a Bachelor of Arts or Bachelor of Science degree. This consists of the equivalent of thirty (30) credit hours, namely:

ACCT 2241.1(.2) Introductory Financial Accounting I
ACCT 2242.1(.2) Introductory Managerial Accounting II
CMLW 2201.1(.2) Legal Aspects of Business I
COMM 2293.1(.2) Communications
MGMT 1281.1(.2) Introduction to Business Management
MGMT 2383.1(.2) Micro Organizational Behaviour or
MGMT 3384.1(.2) Macro Organizational Behaviour
MKTG 2270.1(.2) Introduction to Marketing
CISY 1225.1(.2) Introduction to Computer Applications
Six (6) credit hours in Commerce subjects

A minimum program grade point average of 2.00 is required for the minor in Business.

The regular “Declaration of Major/Minor/Concentration” form is to be used to declare a minor. Students must fulfill all requirements for any minor(s) which they officially declared in order to qualify for graduation, or officially (i.e., in writing) withdraw their declaration of a minor(s).

Second Undergraduate Degrees

At least half of the credits presented in fulfillment of a second undergraduate degree must have been taken at Saint Mary’s after the conferring of the first degree. Students wishing to complete a second undergraduate degree at Saint Mary’s should consult Academic Regulation 25, Section 2 of this *Academic Calendar*.

Cooperative Education Programs (Major and Honours)

Mary Ellen MacEachern, Liaison Officer, Cooperative Education Programs

The Faculty of Science offers Cooperative Education programs in Biology, Chemistry, Environmental Studies, Geology, Computing Science and Psychology. Cooperative Education is a dynamic approach to university education which integrates academic classroom studies with related practical work experiences in the major subject. The principle upon which this concept is based is that learning and individual development are greatly enhanced when the concepts studied in the classroom are periodically applied, tested and observed by the students in meaningful work situations. Through this program, participating industries have an excellent opportunity to observe and influence the education of bright enthusiastic students. They also benefit from the access gained to university faculty and expertise, while university faculty and students become aware of the concerns of industry and the technical problems which they face.

A “Cooperative Education” notation is entered on the parchments and academic transcripts of undergraduate students who successfully complete Cooperative Education requirements in addition to their regular degree requirements.

Admission Requirements for Undergraduate Cooperative Education Programs

- a. Application for admission to the program is normally after the first semester of Year 1. Final decision on admission to the program is made at the end of the second semester.
- b. Students should make application for admission to the Cooperative Education program on a special form obtainable from the Cooperative Education Office. Students will be admitted to the Cooperative Education program on the basis of their formal academic achievement and interviews with the Liaison Officer of the Co-operative Education Programs, and the appropriate departmental Co-operative Education Advisor.
- c. The normal prerequisite for admission to the Cooperative Education program in a regular Bachelor of Science program is a minimum cumulative grade point average of 2.50 and a minimum grade point average of 3.00 in the course(s) of the student’s declared major subject(s).
- d. Students will be admitted to the Cooperative Education program on the basis of their interest, aptitude and assessed ability to combine successfully the academic requirements of a major or honours science program together with the special work term requirements of the Cooperative Education program they wish to enter.

Requirements for Continuance in and Graduation from the Co-operative Education Program

- a. Students must complete all of the regular requirements for a Bachelor of Science degree (see regulations 1 through 14 above). Since individual programs may have specific additional requirements for Cooperative Education students, students should consult the appropriate departmental section of this Calendar for a description of these regulations.
- b. In addition to the above requirements, students must officially register for and complete a minimum of three work terms as specified by the department of their major program (see regulations below and departmental Cooperative Education regulations). Official registration is on the regular registration forms available from the Registrar’s Office.
- c. To continue in and graduate from the Cooperative Education program, students must earn a minimum program grade point average of 2.50 with a minimum grade point average of 3.00 in all courses in their major subject(s).

Policies and Regulations Governing Cooperative Education Work Terms

- a. The University will make every effort to locate work term positions for Cooperative Education students in academically related areas of employment, but cannot guarantee placements. Employment settings may also be identified by Cooperative Education students, but require the approval of the Liaison Officer, Cooperative Education Programs, in consultation with the appropriate departmental Cooperative Education Advisor.

b. The satisfactory fulfillment of Cooperative Education work terms require:

- (i) the completion of a minimum of three terms of work experience in academically related paid employment situations of 13 to 16 weeks duration. Under certain circumstances, and with the approval of the appropriate department, students may be permitted to satisfy their work terms requirements in an unpaid position.
- (ii) a satisfactory employer evaluation for each Cooperative Education work term;
- (iii) the satisfactory completion of a written report submitted within 30 days after the end of each work term detailing the student's work experience in accordance with departmental standards and expectations.

c. A notation will be included on students' academic transcripts following satisfactory completion of each work term.

d. Graduating students who have successfully completed their Co-operative work term requirements will have this noted on their academic transcripts. If, in addition, all other normal academic requirements are fulfilled, a "Cooperative Education" notation will be printed on their parchments.

e. Students may be required to withdraw from the Cooperative Education program if:

- (i) they are dismissed from, quit or fail to accept an appropriate and approved Cooperative work term position;
- (ii) they fail to submit or successfully complete a work term report;
- (iii) they do not maintain the required grade point average necessary for continuance in the Cooperative Education program;
- (iv) in the judgment of their department, they are no longer suited for the particular requirements of the Cooperative Education program.

f. Students who voluntarily withdraw from or who are required to withdraw from the Cooperative Education program may remain enrolled in and continue with the major or honours degree program offered by their department.

g. Cooperative Education students will be expected to attend any special seminars or colloquia developed by the Cooperative Education Office which deals with employment orientation and the application of formal academic study to work experiences.

h. Since academic study during work terms is discouraged, registration in any courses during a work term requires the approval of the Dean of Science or appropriate departmental Cooperative Education Advisor. If approval is granted, no more than six (6) credit hours may be taken during a work term.

Fees for Cooperative Education

a. Students are required to register for all work terms at the Registrar's Office, according to normal registration procedures, including all stipulated deadlines. Work terms will be officially designated on students' transcripts as:

Work Term 1 = COP 1000.1(.2)
 Work Term 2 = COP 2000.1(.2)
 Work Term 3 = COP 3000.1(.2)

b. Students pay for their academic courses and work terms as they take them.

In general, the Cooperative Education program takes one year longer to complete than the corresponding traditional program, but the academic content of both is the same. Students may, with the permission of the Department, transfer from the Cooperative Education program to the non Cooperative Education program.

Information concerning the Faculty of Science's programs at the graduate level is found later in this *Academic Calendar*

Division of Engineering

Dr. A. Seaman, External Director

General Information

Engineering studies at Saint Mary's University provides the first two years of the Bachelor of Engineering degree in association with Dalhousie University. Students follow a program for the discipline of their choice leading to a Diploma of Engineering, or a Bachelor of Science with Diploma in Engineering, upon completion of their courses at Saint Mary's.

Entrance Requirements

Nova Scotia Grade 12 (or equivalent) including the following five courses with an average of at least 65%:

1. English 12 academic
2. Pre-calculus Mathematics 12 academic
3. Physics 12 academic
4. Chemistry 12 academic
5. One other Grade 12 academic or an approved open course. For more information, please consult "Admissions" in Section 2 of this *Calendar*.

Requirements for the Diploma in Engineering

Year One:	Definitions:
MATH 1210	Intro Calculus I
MATH 1211	Intro Calculus II
CHEM 1210.1(.2)	General Chemistry I
CHEM 1213.1(.2)	General Chemistry II for Engineers
PHYS 1210	University Physics I
PHYS 1211	University Physics II
ENGL 1205	Intro to Literature (Humanities I)
EGNE 1206	Graphics (Design I)
EGNE 1203	Statics (Mechanics I)
EGNE 1204	Computer Methods for Engineers
EGNE 1209	Engineering Economics
Humanities	Humanities II

Note: To qualify for the Diploma in Engineering, a student is required to achieve a minimum grade point average of 2.0.

Year Two:

Students must declare their chosen discipline at the end of year one. The second year curriculum is specialized for each discipline. The seven choices are listed below, followed by a complete list of courses. Each course is followed by the numbers, one to seven, for each discipline that requires it.

1. Environmental Engineering
2. Biosystems Engineering
3. Chemical Engineering (Note that Saint Mary's does not provide all courses required)
4. Electrical Engineering
5. Civil Engineering
4. Industrial, Metallurgical & Mining Engineering
7. Mechanical Engineering

Courses: Definitions:	Disciplines:	
MATH 2301 (Linear Algebra)		All
MATH 2303 (Math III)		All
MATH 2311 (Math IV)		3, 4, 5, 6
Hum./Soc.Sci. III Free Elective		1, 2, 5, 6, 7
Hum./Soc.Sci. IV Free Elective		7 only
BIOL 1201/1202 Principles of Biology		1 & 2
CHEM 2344 Organic Chemistry I		1, 2, 3
GEOL 1214.1(2) Introduction to Earth Materials	1	
GEOL 1215.1(2) Introduction to Earth Process	1	
EGNE 2301 Mechanics II		2, 5, 6, 7
EGNE 2303 Fluid Mechanics		1,2,3,5,6,7
EGNE 2304 Mechanics of Deformable Bodies		2, 5, 6, 7
EGNE 2305 Digital Logic		4 only
EGNE 2306 Thermodynamics		3, 4, 5, 6, 7
EGNE 2307 Design II		4 & 7
EGNE 2308 Electric Circuits I		All
EGNE 2309 Probability and Statistics		All
EGNE 2310 Technical Communications		4, 5, 6
EGNE 2311 Circuit Analysis II		4 only
CSCI 2301 Data Structures and Numerical Methods		4 only

Notes:

(a) Chemical Engineering requires nine (9) credit hours, (Chemical Process Industries, Fundamentals of Chemical Engineering, and Fundamentals of Environmental Engineering) which are offered only at Dalhousie university but which may be taken by Saint Mary's students using a Letter of Permission procedure. See academic regulation 21 in Section 2 of this *Academic Calendar*.

(b) To qualify for the Diploma in Engineering, a student is required to achieve a minimum grade point average of 2.0.

(c) Credits for spoken language instruction do not qualify as Humanities/Social Sciences.

Three Year Bachelor of Science (General) plus Diploma of Engineering

This program entails an extra year of thirty (30) credit hours as listed below:

- six (6) credit hours in Mathematics electives at the 3400-level or above.
- six (6) credit hours in Chemistry electives at 2300 level or above
- six (6) credit hours in Physics or Biology electives at 2300 level or above
- twelve (12) credit hours in Humanities or Social Sciences

elective credits at 1200 level or above

Four Year Bachelor of Science with Major in Mathematics plus Diploma in Engineering

This program requires the student to complete the Engineering Diploma program for their particular discipline of choice, plus sufficient mathematics courses chosen in consultation with the Department of Mathematics to complete a major in Mathematics, plus sufficient electives to complete one hundred and twenty (120) credit hours consistent with the requirements for the Bachelor of Science degree. Students who anticipate taking this option are advised to substitute CSCI 1226 and 1227 for ENGE 1204, and consult with the Department of Mathematics and Computing Science before registering for any 3000-level math course or EGNE 2309.

Note: It is also possible to arrange a four year program consisting of Diploma in Engineering and Bachelor of Science degree with other concentrations.

Entrance to Dalhousie

With a Saint Mary's University Diploma of Engineering and without additional examination students may enter Dalhousie University, and obtain the degree of Bachelor of Engineering on successful completion of the Dalhousie's portion of the Bachelor of Engineering Degree. This will normally require an additional two years of study, and students will normally be admitted to the discipline they have selected for the second year Diploma program. However, all Departments at Dalhousie are subject to a maximum number of annual admissions, and therefore available seats will be allotted on the basis of academic standing. Students with low academic standings may be offered alternative departments. Dalhousie will treat students from the Associated University programs in the same manner as students who entered the program as freshmen at Dalhousie University. Academic merit will be the only deciding factor on admission to disciplines.

Objectives

Saint Mary's University offers the first two years of an engineering degree program accredited by the Association of Professional Engineers of the Provinces through the Canadian Accreditation Board, which will assist students in developing the following qualities:

- a basic understanding of scientific principles
- a foundation in engineering mathematics
- a competence in engineering design and technical communication
- creativity
- social understanding
- an appreciation for continued learning

Diploma in Forensic Sciences

Dr. Paul Erickson Program Coordinator

Forensic science encompasses the methodology and interpretation of data collected in the investigation of deaths, or other events, which could be criminal in nature. In Canada,

police forces are regularly involved in forensic investigations, but there are others, e.g., medical personnel, dentists, biologists, criminologists and anthropologists, who are interested in, or can benefit from, training in forensic sciences.

This program is designed to give the student a strong grounding in the different science disciplines (e.g., biology, chemistry, and physics) that form the basis of the techniques used in forensic investigations. This science basis is provided through introductory and specialty courses offered from Departments in the Science Faculty. Students may broaden their knowledge by choosing from a list of complementary courses offered by Departments in the other Faculties (e.g., anthropology, sociology). Experts in forensic techniques will expose students to the application of this knowledge, primarily through the Application of Forensic Techniques course [FRSC 3300.1(.2)].

This Diploma program is housed in the Department of Biology where a Program Coordinator oversees the program.

Admission

Entry to this Diploma program is by permission of the Program Coordinator. To be admitted, students must be enrolled in a Saint Mary's University degree program in the Faculty of Arts, Commerce, or Science, have completed thirty (30) credit hours with a grade point average of at least 3.00 and declared a major. Application is made in writing, by **March 1** to the Program Coordinator and must include a brief statement describing reasons for choosing the program and any work-related experience or goals. Because of the significant interest in forensic science, the number of qualified students permitted entry to this Program may have to be limited. Those admitted to this Diploma program, are regarded as being in a dual academic program and are required, therefore, to follow the rules and regulations stipulated for this status. (**Reference Academic Regulation 24.**)

Police officers and mature students with work-related experience in forensic science may be admitted directly to this Diploma program without being admitted to a degree program.

Note: These are the only two categories of applicants who can pursue the Diploma program alone without being enrolled concurrently in a degree program.

Graduation

The requirement of a minimum cumulative grade point average of 3.00 applies to all students in this Diploma program.

Requirements for the Diploma in Forensic Sciences [sixty (60) credit hours]

1. Required courses [twenty-seven (27)]

- *FRSC 2200.1(.2) Basic Sciences for Forensics I
- *FRSC 2201.1(.2) Basic Sciences for Forensics II
- BIOL 1201.1(.2) Molecular and Cell Biology
- BIOL 1202.1 (.2) Organismal and Ecological Biology
- CHEM 1210.1(.2) General Chemistry and
- CHEM 1212.1(.2) Chemistry for Life Sciences
- *FRSC 3300.1(.2) Application of Forensic Techniques
- *BIOL 2307.1(.2) Genetics

BIOL 4419.1(.2) Molecular Biology

Group A – Science-intensive courses [twenty-one (21) to twenty-four (24) credit hours]

- ANTH 3373.1(.2) Fieldwork in Archaeology
- ANTH 4464.1(.2) Advanced Fieldwork in Archaeology
- ANTH 3471.1(.2) Forensic Anthropology 1
- ANTH 3472.1(.2) Forensic Anthropology 2
- *BIOL 2322.1(.2) General Physiology I
- *BIOL 2323.1(.2) General Physiology II
- BIOL 3327.1(.2) Anatomy and Functional Morphology of Vertebrates
- BIOL 2398.1(.2) Introduction to Microbiology
- BIOL 3426.1(.2) Animal Tissues
- *BIOL 2427.1(.2) Introductory Entomology
- CHEM 2332.1(.2) Introductory Analytical Chemistry: Wet Methods
- CHEM 2333.1(.2) Introductory Analytical Chemistry: Instrumental Methods
- CHEM 2344.1(.2) Organic Chemistry I
- CHEM 2345.1(.2) Organic Chemistry II A
- OR
- CHEM 2346.1(.2) Organic Chemistry IIB
- CHEM 3451.1(.2) Introductory Biochemistry
- PHYS 1235.1(.2) Physics for Life Sciences I
- PHYS 1236.1(.2) Physics for Life Sciences II

3. Electives [nine (9) – twelve (12) credit hours], diploma students may qualify for up to six (6) credit hours based on prior training]

- ANTH 3374.1(.2) Archaeology Laboratory
- ANTH 4465.1(.2) Advanced Archaeology Laboratory
- BIOL 2308.1 (.2) Biostatistics
- BIOL 4408.1(.2) Embryology
- CRIM 2303.1(.2) Crime and Society, entry to this course may be restricted
- CRIM 2304.1(.2) Canadian Criminal Justice System, entry to this course may be restricted
- GEOG 2316.1 (.2) Map and Air Photo
- GEOG 3386.1(.2) Concepts in Geographical Information Systems (G.I.S.)
- PSYC 1210.1(.2) Mind and Brain
- PSYC 1230.1(.2) Memory
- PSYC 3320.1(.2) Psychology and Law
- *PSYC 3355.1(.2) Cognitive Psychology
- *PSYC 1260.1(.2) Personality: Normal and Abnormal

Note: students must satisfy all prerequisites for entry into these courses.

Courses marked * may be offered on-line. For more information contact the Department of Continuing Education.

Study Abroad Opportunities

Saint Mary's University believes that exposure to other cultures in the national and international community is an important part of a university education. Graduates with international and cross-cultural experience will be well placed to participate in the global economy. Thus, Saint Mary's students are encouraged to take advantage of on-campus opportunities to gain such experience and to undertake a part of their study in another country or another part of Canada.

International programs may take the form of a field trip, a semester-long residence at another institution, or a volunteer work opportunity. Most programs are open to students from any academic program of study. Credits earned from these programs are applicable to the extent that they fulfill the requirements of each student's own degree program.

To make the most of these opportunities students are encouraged to:

- Begin with some of the many courses available at Saint Mary's which focus on global issues or which develop foreign language skills.
- Plan well in advance, to allow time for academic, logistical, financial, and travel arrangements.
- Investigate the options available. Each program is unique, and the range of opportunities for students is different each year. As a first step, students should consult the information available on the web pages for International Learning www.smu.ca/international/international-learning. This information provides guidance in choosing an international program, details the options which are made possible through agreements with university partners in other countries, and provides information about applying for funding support.
- Consult with a faculty advisor about how an international experience can be recognized for academic credit and what works best for a specific program of study.

General inquiries and requests for assistance can be addressed to the Project Manager for International Mobility at mobility.international@smu.ca

The list of Saint Mary's partner universities and opportunities for study abroad continues to grow. Opportunities for study abroad are made possible through agreements with institutions such as:

University of Western Sydney, Australia
Xiamen University, People's Republic of China
Université Catholique de l'ouest, France
Constance University of Applied Sciences, Germany
Hokkaido University of Education, Japan
Kumamoto Guaken University, Japan
Universidad La Salle, Mexico
University of KwaZulu Natal, South Africa
Sun Yat-sen University, Taiwan

Through the AVP and SMUSA, Inc. International Mobility Awards the Vice President, Academic and Research, and SMUSA, Inc. provide modest amounts of funding to encourage participation by students who would not otherwise have such opportunities.

In addition, in January 2004, the University received a very generous donation from Richard Homburg to fund the Homburg International Mobility Awards. These awards were established to assist full-time and part-time Saint Mary's University undergraduate and graduate students from Atlantic Canada to participate in approved international study abroad programs or other international experiences which:

- form or contribute substantially to the student's program of study, with an overseas duration of one semester or more
- entail learning or improving knowledge of a language other than the student's primary language.

Details on these and other sources of funding for study abroad are available at www.smu.ca/international/international-learning

Pre-Professional Programs

Professional Schools

Students who intend to continue studies at professional schools, such as Theology, Law, Medicine, Architecture, Education, and Dentistry, should ensure that their plan of studies includes courses needed for admission to the appropriate professional schools. Calendars of professional schools may be consulted in the Library, but students should also seek information from the professional schools directly as admission requirements may change.

Though not strictly required by some professional schools, it is recommended that the student complete an undergraduate degree, usually with a major or honours program, before seeking admission to a professional school. Students taking a program as preparation for entrance to professional schools are urged from the beginning to place special emphasis on a high standard of performance. Prerequisite course requirements apply and students should ensure they meet the application deadline and complete tests, such as the MCAT in time to make the application deadline.

Pre-Medical

Students intending to study medicine should have a solid academic record (i.e., at least an A- average) for admission into medical school and, in the case of Dalhousie Medical School, take five (5.0) credits per year for each of the two years prior to admission to medical school.

The following subjects are the normal minimum requirements of many Canadian medical schools: Biology, Chemistry, Physics and English, each of an academic year's duration. Students should extend their studies beyond the minimum requirements and include microbiology, physiology, etc., and biochemistry as well as a course in the humanities and social sciences in their program. In addition to the academic factors, medical schools also take into consideration other criteria such as the Medical College Admission Test, volunteer work, interviews, and factors such as emotional stability, social values, leadership, personal maturity, motivation, life experience, etc.

Dalhousie University requires applicants to hold a university degree. The student should write for information and consult the academic calendar of the university to which medical school admission is sought.

Pre-Dental

The preceding information is equally applicable to the Pre-Dental program. Students interested in complete information should write for information and consult the academic calendar of the university to which admission is sought.

Pre-Optometry

The University of Waterloo's School of Optometry accepts students from the Atlantic Provinces to its program of Optometry.

Applicants must complete at least one year of university study with courses in Chemistry, Physics, Biology, Mathematics and Psychology. Information and applications are obtainable from the University of Waterloo.

Pre-Veterinary

Applicants seeking admission to the Atlantic Veterinary College, Charlottetown, P.E.I., must have at least two years of university study, including mathematics, biology, chemistry, physics, and English, with at least a B+ average and complete the necessary volunteer work with a veterinarian. Students may also apply to Ontario Veterinary College and University of Guelph. The University of Saskatchewan also accepts competitive students into their Veterinary Medicine program. The University of British Columbia offers a two-year Pre-Veterinary program leading to a four-year Veterinary program at the University of Saskatchewan.

Prospective students should contact the veterinary college of their choice for specific information.

Pre-Occupational Therapy/Physiotherapy

Interested students should consult the School of Occupational Therapy/Physiotherapy, Dalhousie University, to determine acceptable prerequisite courses. Since enrolment in the program is limited, applicants should note that admission is on a competitive basis with preference given to residents of the Atlantic Provinces. Selection is based on completion of at least one year of university science courses, including Biology, Chemistry or Physics, Statistics, English, and Psychology. Application packages are available through the Registrar's Office, Dalhousie University.

Pre-Law

Students applying for admission to the Law School are required to submit results of the Law Schools Admission Test (LSAT) of the Educational Testing Service, Princeton, New Jersey. Information for taking this test at Canadian universities can be obtained from the Law School. Dalhousie University considers applications from students who have completed at least two full years' studies in a program leading to the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce. Applications are considered as they are received or in the month of June.

Pre-Architecture/Environmental Design Studies

Saint Mary's University offers the first two years of study for students interested in pursuing a Bachelor of Environmental Design Studies. The following are the minimum academic requirements for admission to that program at Dalhousie University:

- two years (10.0 credits) of university study in any academic program with a minimum GPA of 2.5;
- one full-year class (or equivalent) in mathematics; Calculus is recommended, but a math-based class in Physics, Economics or Statistics also may be acceptable; and
- a portfolio of work (10-15 items) that demonstrates creative ability and/or artistic skill (for example, free-hand sketches, precision drawings, paintings, furniture, sculpture, craft objects, creative photography, construction projects, etc.). Photographs should be used for larger items. This may be fulfilled by taking a course in foundation drawing at the Nova Scotia College of Art and Design University.

Pre-Theological Courses

Students who are candidates for the Christian Ministry are in most cases required to obtain a Bachelor of Arts degree, or its equivalent, before proceeding to Theology. Normally the Bachelor of Arts degree will be followed by three years in Theology. Requirements may vary somewhat from one denomination to another, but generally speaking, students are advised to select a broad range of subjects from such departments as English, History, Philosophy, Classics,

Psychology and Sociology, along with some course in Religious Studies. A working knowledge of Greek is desirable for students entering Theology.

Pre-Education

Students intending to pursue a career in teaching must apply to enter a Bachelor of Education program after completing a Bachelor's degree in Arts, Science, or Commerce. Those persons who wish to teach at the secondary school level should undertake a program in the first Bachelor's degree that will develop sound academic preparation in a subject area normally taught at the secondary school level. Students wishing to teach at the elementary level should develop a program in the first Bachelor's degree which has a breadth of academic courses. Students who plan on applying to enter a Bachelor of Education program should determine the course requirements for the particular university where they plan to attend as well as the details of the requirements for teacher certification from the governing body of the geographical area in which they hope/intend to teach. See the Education entry in Section 5 for details on the articulation program with the University of Maine.

Student Counselling for Pre-Professional Programs

Because of the keen competition for admission to graduate and professional schools, students who are interested in applying to graduate or professional schools are urged to contact the Office of the Dean of Science for information.

Faculty of Graduate Studies and Research

Dean	Dr. J. Kevin Vessey
Secretary to the Dean	Dianne Spalding
Graduate Studies Officer	Heather Taylor
Research Grants Officer	Margaret Schenk

The Faculty of Graduate Studies and Research oversees the programs in graduate studies offered in Arts, Commerce, and Science.

The University offers programs of study leading to graduate certifications in the following academic areas:

- Master of Arts in Atlantic Canada Studies
- Master of Arts in Criminology
- Master of Arts in History
- Master of Arts in International Development Studies
- Master of Arts in Philosophy
- Master of Arts in Women's Studies
- Master of Business Administration
- Master of Business Administration – Certified Management Accountant
- Master of Finance
- Master of Management – Co-operatives and Credit Unions

- Master of Science in Astronomy

- Master of Science in Applied Psychology
- Master of Science in Applied Science
- Doctor of Philosophy in Astronomy
- Doctor of Philosophy in Business Administration (Management)
- Doctor of Philosophy in Industrial/Organizational Psychology
- Graduate Diploma in International Development Studies
- Graduate Diploma in Criminology
- Graduate Courses in Geography

Each student's program is administered by the Faculty of Graduate Studies and Research and the academic unit concerned. Each student shall comply with the general regulations, the degree requirements, and any additional requirements of the appropriate academic unit. Academic requirements vary depending on the student's particular academic program.

1. Qualifications for Admission

a. Admission is limited and at the discretion of the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research. General, as well as program-specific

admission requirements have been established as a guide to applicants. Possession of these minimum requirements does not establish the right of the applicant to be admitted or readmitted to the University. The University reserves the right to accept or reject any applicant. An acceptance is valid for the starting date and semester identified in the letter of acceptance. It cannot be advanced or deferred. An applicant who does not register for the specified initial semester must reapply for admission. Admission is not guaranteed. Once admitted to the University, the student agrees to abide by any and all rules and regulations affecting students officially passed and duly promulgated. The student agrees that failure to abide by such regulations and rules may result in expulsion from the University without refund of tuition or any other fees paid by the student to the University. To be considered, an applicant shall hold a bachelor's degree or its equivalent from an institution recognized by the Senate and shall have a knowledge of the proposed field of specialization satisfactory to the graduate program concerned.

b. Preference will be given to applicants who hold an honours degree. In addition, admission will be granted only to those students who show a high promise of success in post-graduate study as demonstrated by the results of appropriate tests and their records of previous academic accomplishment. See the regulations listed under each graduate program for specific additional minimum requirements for admission to that program.

c. Applicants whose first language is not English, and who have not attended an English language secondary school, are required to take one of the standardized English language proficiency tests as outlined in Section 2 (i) of Recruitment and Admissions Services of the Academic Calendar. In general, these are defined as minimum TOEFL scores of 550 on paper-based exam, 213 on the computer-based exam, or 80 on the internet-based (iBT) exam. In addition, the CAEL (Canadian Academic English Language Assessment) test is acceptable at a minimum score of 60. See the section of the MBA and Ph.D. Business Administration (Management) for specific language requirements for these programs.

The language of instruction for all graduate programs is English. Likewise, all theses will be written and examined in English. The only exception to this policy is where the nature of the scholarly topic requires that the thesis be written, in whole or in part, in a language other than English. The rare exceptions for use of a language other than English in a thesis must have approval in writing from the student's supervisor, the Program Coordinator, and the Dean of the FGSR. The Supervisor and Program Coordinator must also ensure that qualified thesis examiners, fluent in the language presented in the thesis, are available for examination of the thesis. Even if the thesis is written, in whole or in part, in a language other than English, the thesis examination will be carried out in English.

2. Procedure for Admission

a. Application for admission shall be made to the Faculty of Graduate Studies and Research. Applicants shall arrange to have forwarded an official transcript of their academic record and letters of recommendation from at least two persons in a position to judge the applicant's capacity for graduate study. Several programs require additional information. Details may be obtained by consulting the Faculty website at <http://fgsr.smu.ca> or by requesting application materials for the program of interest.

Normally The submission date for application forms and all supporting documents must be received by the Faculty of Graduate Studies and Research to the FGSR Office varies with program, but unless otherwise stated, is before February 1 of the academic year prior to the one for which admission is sought. However, because some graduate programs have different submission dates and firm deadlines after which applicants will not be considered, applicants Submission of the application by the required date is particularly important if the applicant wishes to be considered for financial support. Applicants are advised to check carefully the detailed description of the individual graduate programs within the Academic Calendar.

b. Successful applicants will be notified by the Dean of the Faculty of Graduate Studies and Research.

3. Registration

a. Registration of students in graduate programs shall take place at times indicated in this Academic Calendar and the Registration Book, published annually, approximately mid-to late July.

b. Students are not permitted to register until they have received notification of acceptance.

c. Depending upon the policy of the individual graduate program, students are designated as full-time or part-time. For descriptions of full-time versus part-time study, applicants are advised to check carefully Subsection 5, below, and the detailed description of the individual graduate programs within the Academic Calendar. For those programs which allow either full-time or part-time registrations, the status of an individual student will be identified in their letter of acceptance. Changes to a student's status after acceptance requires permission of the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research.

4. Payment of Fees

Due to changes in the fee structure since the start of the 2004-05 Academic Year, fee payments for graduate programs may either be on a Per-Course-Fee Basis or a Program-Fee Basis. For all MA and M.Sc. students who started their programs prior to September 2004, and for all current students enrolled in the MBA program, fees per semester are based upon the enrolled courses that semester (i.e. Per-Course-Fee Basis). All other graduate students (i.e.

those who have started their MA and M.Sc. programs after September 2004, and students in PhD, MBA-CMA, EMBA and Masters of Finance programs) have their fees assessed on Program-Fee Basis. Program-Fee students are charged a fee for their entire program, charged once, or in multiple instalments over their programs (for details, see Fee Tables in Section 6 of the Academic Calendar and in the Registration Guide or contact the Faculty of Graduate Studies and Research).

Important note: For the proper assignment of fees and scholarship funds to students in Program-Fee Based graduate programs, students must be registered in FGSR9000 for every semester in which they are in their graduate program. This includes all semesters within students' maximum time-for completion, as well as semesters within extension periods (i.e. for students who are granted extensions to their graduate programs).

For the proper assignment of fees and scholarship funds to students in Per-Course-Fee Based graduate programs, students must be registered in course work, or for those who have completed their in-class course work, in the appropriate Thesis Continuation course (e.g. THES9999).

5. Definitions of Full-time and Part-time Graduate Students

a. For all graduate students who started their programs prior to September 2004, and for students enrolled in the MBA, program, full-time or part-time status is identified by course load within the semester (see section Academic Regulation 1). In general, a student taking at least nine (9) credit hours within a semester will be considered full-time for that semester while students registered in less than nine (9) credit hours per semester will be considered part-time for that semester.

For all other graduate students than those identified above, full-time/part-time status is defined as below:

(i) **FULL-TIME:** a student who is enrolled in a program of study, who makes demands upon the resources of the institution by enrolling in courses, engaging in research, and/or writing a thesis/report under continuing supervision. These students will normally be geographically available to the university, will visit the campus regularly, and will not be engaged in full-time employment (on or off campus) while registered as full-time students (except while undertaking program defined requirements such as co-op work semesters, practica, and internships), and will be in pursuit of their studies as a full-time occupation.

(ii) **FULL-TIME CONTINUING:** a student who is enrolled in a full-time program of study who is beyond their minimum time-for-completion (see below), who makes demands upon the resources of an institution by enrolling in courses, engaging in research, and/or writing a thesis/report under continuing supervision. These students will normally be geographically available to the university, will visit the campus regularly, will not be engaged in full-time employment (on or off campus) and will be in pursuit of their studies as a full-time occupation.

(iii) **PART-TIME:** a student who is enrolled part-time in a program of study in an approved graduate degree, certificate, or diploma program. These students will normally be engaged in completing 50% or less of the program requirements per semester.

(iv) **PART-TIME CONTINUING:** a student who is enrolled part-time in a program of study, who has exceeded the expected length of their program.

Regarding full-time (FT) and part-time (PT) status, please note the following important points. As of September 2004, graduate students will be designated as full-time (FT) or part-time (PT) by their Graduate Program Coordinators.

Following admission, changes in registration status from FT to PT or vice-versa will be allowed ONLY with the permission of the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research (FGSR) and only when the student's situation changes so as to satisfy the above definitions.

Only during the minimum time-for-completion of the program will FT students be eligible for funding from the FGSR. PT students are not eligible for funding from the FGSR. Normally students who receive a FGSR Fellowship or FGSR Graduate Award will receive their funds (less fees) in three instalments, one at the beginning of each semester, provided they have registered early (please see Registration Guide for the exact dates).

6. Times-for-Completion of Graduate Programs

a. As of September 2004, the normal academic year of the FGSR is composed of three 4-month semesters running from September 1 to August 31. Full-time students will normally complete their studies through a series of consecutive 4- month semesters. (e.g., three semesters will constitute 12 months of continuous full-time study; six semesters will constitute 24 months of continuous full-time study).

b. The FGSR has established normal minimum (often referred to as residency period) and maximum completion times for each program (see following table). Normally, FT students will complete their program within the defined time periods. For PT students, the minimum period will be double that defined for FT students.

If a student (FT or PT) does not complete the program within the minimum period, they must register as a FT Continuing or PT Continuing student until they complete the program, provided they do not exceed the maximum time for completion of a program.

If a student (FT or PT) does not complete their program within the maximum period, they are not entitled to continue their program, unless they have applied for and been granted an Extension to their graduate program (see below).

Minimum and Maximum Time-for-Completion of Programs

Graduate Program	Minimum number of years (semesters)		Maximum number of years (semesters)	
	Full-time	Part-time	Full-time	Full-time
MA Atlantic Canada Studies	2 (6)	4 (12)	6 (18)	6 (18)
MA Criminology	2 (6)	4 (12)	5 (15)	7 (21)
MA History	1 (3)	2 (6)	4 (12)	5 (15)
MA Intrnl. Dev. Studies (Category I)	2 (6)	4 (12)	5 (15)	7 (21)
MA Intrnl. Dev. Studies (Category II)	1 (3)	2 (6)	4 (12)	5 (15)
MA Philosophy	1 (3)	2 (6)	4 (12)	5 (15)
MA Women's Studies	2 (6)	4 (12)	5 (15)	7 (21)
Grad Diploma – Criminology	1 (3)	2 (6)	4 (12)	5 (15)
Grad Diploma – Intrnl. Dev. Studies*	1 (3)	NA	1 (3)	NA
Masters of Finance*	1.2 (3.5)	NA	1.2 (3.5)	NA
Executive MBA*	2 (6)	NA	2 (6)	NA
MBA	2 (6)	4 (12)	5 (15)	7 (21)
MBA (Accelerated)	1 (3)	2 (6)	4 (12)	5 (15)
MBA – CMA**	NA	3 (9)	NA	6 (18)
MSc Astronomy	2 (6)	4 (12)	5 (15)	7 (21)
MSc Applied Psychology	2 (6)	4 (12)	5 (15)	7 (21)
MSc Applied Science	2 (6)	4 (12)	5 (15)	7 (21)
PhD Astronomy	4 (12)	8 (24)	10 (30)	10 (30)
PhD Business Admin. – Management	3 (9)	NA	6.3 (19)	NA
PhD Ind./Org. Psychology	3 (9)	6 (18)	10 (30)	10 (30)

*Full-time “lock-step” program with defined courses in a prescribed sequence.

**Part-time “lock-step” program with defined courses in a prescribed sequence.

NA = Not Applicable

7. Extensions to Graduate Programs

a. Circumstances may sometimes justify an extension to a student's graduate program beyond the normal maximum time-for-completion identified above. An extension to a graduate program may be considered under any of the following conditions which have interfered with the student's ability to complete her/his Program within the normal maximum time-for-completion:

- (i) Illness, family strife, or unforeseen family responsibilities*
- (ii) Pursuit of an employment opportunity which makes a positive contribution to the student's Graduate Program*
- (iii) Unforeseen difficulties in pursuit of the thesis research beyond the control of the student.

***Note:** In cases (i) and (ii) above, it is highly preferable that students apply for Leave of Absences (see below) from their Programs at the time of the incident/situation.

b. A student applying for an Extension should submit a written request on the appropriate FGSR form (available on <http://fgsr.smu.ca/>) to their Program Coordinator. The request should include a letter of support from the student's research Supervisor or Supervisory Committee, together

with a letter describing in detail the reasons for the requested leave and supporting documentation, where applicable, certifying the facts surrounding the request. After the Program Coordinator has reviewed and approved the Leave application, it will then be forwarded to the Faculty of Graduate Studies and Research. The Dean of Graduate Studies and Research will notify the student of the decision on their application.

c. Extension to a Program will be for a maximum of 1 year in length per request. Extensions can be granted only twice for Master's programs and only three times for PhD programs. Students at or beyond their normal maximum Program period who are denied Extensions will not be able to continue their Graduate Programs. Students who do not complete their Programs within the maximum number of allowable Extensions will not be able to continue their Graduate Programs. Extensions will not be granted retroactively to a student who has failed to register for one or more previous semesters and is beyond their normal maximum Program period.

8. Leave of Absences

Leave of Absences from graduate programs for periods of up to a maximum of 1 year may be granted. Requests for a Leave of Absence (forms available from the FGSR office and website) must be supported by documentation

explaining exceptional personal circumstances which would prevent research and/or coursework being undertaken during the period of time for which the leave applies. The decision of the Dean of the Faculty of Graduate Studies and Research is final. If a leave of absence is granted, the student is considered to be inactive in the program during the period of exemption but must pay the appropriate fees as outlined in Section 6 of the Academic Calendar. Time spent away from one's graduate program while on a Leave of Absence, does not contribute to the time-for-completion. Students returning from a leave of absence must re-activate their status by filing an application for Visiting, Upgrading and Reactivation Students (available from the FGSR office and website).

9. Program Withdrawals

To withdraw from a graduate program for non-academic reasons, students must apply to the Faculty of Graduate Studies and Research in writing through their Program Coordinator. After a withdrawal from a graduate program, if a student who wants to be readmitted and is in a position to resume their/her/his studies, she/he is required to reapply for admission. The Program Coordinator will be responsible for recommending the terms of readmission, including the outstanding academic requirements and the deadline for completion of the entire graduate program. The final decision on approval for readmission will be made by the Dean of Graduate Studies and Research.

10. Program of Study and Research

a. Students entering with an honours degree (or equivalent) must complete a minimum number of credit hours of course work as defined by the program (see detailed descriptions of programs below) and, where applicable, submit an acceptable thesis/masters research project. In some programs, a master's degree or graduate diploma may consist of course-work only and no thesis (e.g., M.Sc. in Astronomy). The course requirements for such non-thesis programs are described in the detailed description of the program below. Courses in all programs must be at the 5000 level or above, but where advisable, courses at the 4000 level may be included in a program, provided that the requirements applying to graduate students in such courses are of a graduate standard.

b. On the recommendation of the appropriate Program Coordinator and the Dean of the Faculty of Graduate Studies and Research, a maximum of twenty percent (20%) of the credits required for a graduate degree in Astronomy, Philosophy, History, Psychology, and Atlantic Canada Studies at Saint Mary's can be recognized for graduate courses previously completed at another recognized academic institution and not previously used in the fulfillment of the requirements for another degree. In the case of the MBA program, the maximum number of such transfer credits is thirty (30) credit hours; for the Master of Science in Applied Science the number is six (6) credit hours.

c. A student may be required to audit a course as part of the program of study.

d. Where required, a student shall submit a thesis on a subject approved by the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research in which research has been conducted under the direction of a supervisor appointed by the appropriate Program Committee. An oral defence in the presence of an Examining Committee appointed by the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research is mandatory. Details on the oral defence process for each program is available through the FGSR and the individual Program Coordinators.

e. Changes in either the program of courses or the topic of the thesis require the approval of the Program Committee.

11. Evaluation

In order to qualify for a Master's graduate degree a student must obtain a grade point average of at least 3.00. Failure of any course ordinarily will require withdrawal from the program. In exceptional circumstances, the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research may allow the student to remain in the program. In such a case, failure of a second course will require withdrawal from the program.

a. Letter grades and grade points for graduate courses will be assigned as follows. These are the grade points for six (6) semester hours. Three (3) semester hour courses carry 50% of these grade points.

A+	= 4.00	= Excellent
A	= 4.00	= Excellent
A-	= 3.67	= Very Good
B+	= 3.33	= Good
B	= 3.00	= Satisfactory
B-	= 2.67	= Below graduate standard
C	= 2.00	= Marginal pass
F	= 0.00	= Failure
P	= —	= Pass
IP	= —	= In Progress

The P (Pass) grade is only applicable for evaluation of theses in programs which grade the theses according to a pass/fail regime. The P grade is not calculated in grade point averages. The IP (In Progress) grade is applicable for graduate level courses, thesis, dissertation, major research paper/project (MBA), and practicum courses; also for Co-operative Education work terms; and undergraduate honours courses. For all graduate thesis, dissertation major research paper/projects and practicum courses, this grade can remain in effect until the expiration of the timeline for the completion of the individual student's entire graduate program. For all other graduate courses, the IP grade is valid only for a maximum of twelve months beyond the last day of classes in the semester in which the course was taught. Thereafter, it becomes an F ("failure") which is calculated into the calculation of a student's grade point averages. The IP grade is not calculated in grade point averages.

b. The following grades shall be given when appropriate but will not be calculated in the grade point or cumulative grade point average:

Aegrotat	AE
Authorized withdrawal from a course	W
In progress	IP
Pass	P
Satisfactory	S

Note: This “S” grade is reserved exclusively for SMBA 0010.1(.2)/0020.1(.2). Grades earned on advanced standing and transfer courses are also not included in the calculation of averages.

c. In the case of advanced standing and transfer courses, credit will not be awarded for less than a grade of B (or the equivalent). This is applicable also to courses taken based upon Letters of Permission.

d. In addition to evaluation by course work, students A student may be required to provide updates to their the Supervisor/Supervisory Committee on the progress of their thesis research. If required, a student will be given a minimum of thirty (30) days notice to provide an update to the Supervisor/Supervisory Committee. The update will be in the form of a meeting at which the student will present the written report on the research activities/progress and address questions and comments of the Supervisor/Supervisory Committee on the report and research progress.

The Supervisor will prepare a report on the student’s progress using the form available from FGSR. The report must be witnessed by the student’s signature and the student is free to make comments regarding the report. The report, which will include an evaluation at one of the three assessment levels indicated below, will be sent to the Program Coordinator for signature and forwarded to the Dean of the Faculty of Graduate Studies and Research. These evaluations become part of the student’s record within the FGSR, but are not recorded on the student’s transcript.

The progress in a student’s program can be assessed at three levels:

- Satisfactory
- Unsatisfactory – In Need of Improvement
- Not Acceptable

The actions coming forth from the assignment of the above grades are:

Satisfactory: The students’ progress in their research relevant to the period of time working pursuing the research is at least sufficient in terms of quality and quantity. In the assessment, leeway must be given for problems that may arise in pursuit of the research which are beyond the reasonable control of the student. With a Satisfactory rating, the student is recommended for continuation of his/her Program.

Unsatisfactory – In Need of Improvement: Progress is not satisfactory. The students’ progress in their research relevant to the period of time working pursuing the research is insufficient in terms of quality and/or quantity. A With an “Unsatisfactory” rating, the Supervisor’s report on the

progress of the student must include a timeline (e.g. up to a minimum of 4 months; maximum of 12 months) must accompany this recommendation with milestones/outcomes for the student to achieve within the specified period. After the specified period in the timeline, another update will be provided by the student per the procedures identified above. If the expected outcomes have been achieved successfully met, a student will achieve assigned a “Satisfactory” rating. If the milestones are not achieved, the student’s case will be reviewed by the Supervisory Committee, the Program Coordinator If the expected outcomes are not achieved in a satisfactory manner, the Supervisor’s new report on the student’s progress will include an assessment of “Not Acceptable.”

Not Acceptable: If the expected outcomes are not achieved and the Dean of Faculty of Graduate Studies and Research. More remedial action may be taken, or the student could be rated Not Acceptable.

Not Acceptable: The progress is not acceptable and the Supervisor/Supervisory Committee concludes that the student will not successfully complete their Program. An evaluation of succeed in completing the Program, the Supervisor/Supervisory Committee will note the rating of “Not Acceptable is sent” in the Supervisor’s report and forward this report to the Program Coordinator who. The Program Coordinator will review the case and make a an independent recommendation to the Dean of Graduate Studies and Research. Upon the recommendation to of the Dean of Faculty of Graduate Studies and Research. Normally, the student will be required to withdraw from their Program. Students who have received an evaluation of “Not Acceptable” and have received notice of a requirement to withdraw have up to thirty (30) days to make an appeal in writing which will be considered by the Executive Senate Committee of the Faculty of Graduate Studies and Research. (NB: A student on Academic Appeals. (NOTE: The Supervisor/Supervisory Committee cannot gochange a student’s assessment directly from a “Satisfactory” rating to “Not Acceptable”; if”. If a student’s progress has been determined to be less than fully satisfactory, the student must be rated “Unsatisfactory – In Need of Improvement” and actions as defined above taken before a rating of “Not Acceptable” could be considered.)

12. Thesis/Major Research Project (if required)

a. To be eligible for graduation at Spring Convocation, the student’s completed thesis/major research paper/project must be submitted with the consent of the Supervisor/Supervisory Committee to the Program Coordinator with enough time for the thesis to be distributed, reviewed, examined in an oral defence, revised, copied and submitted to the Registrar before Senate meets to approve the list of spring graduates. Although this date varies each year, a good rule is that the thesis should be submitted one month before the end of classes. For Fall Convocation, a general rule is the thesis should be submitted by August 15. Students should contact the FGSR Office to be informed of the specific recommended date for submission of the thesis to enable processing time for Convocation.

b. The thesis/major research paper/project must be ruled acceptable by the Examining Committee appointed by the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research. Any suggestions by the Committee concerning corrections, additions and other necessary changes must be either completed or formally refuted by the student to the satisfaction of the Examining Committee before the thesis/major research project can be accepted. For details on the examination/defence procedures for thesis/major research paper/project, students should contact their Program Coordinator.

c. The Student's Responsibilities

- (i) The thesis/major research project must be submitted in the following form:
- (a) Paper: Good quality bond paper, 21.5 cm (8 1/2") x 28 cm (11")
 - (b) Typescript: Double spaced
 - (c) Margins:
 - Left hand margin: 4 cm (1 1/2")
 - All other margins: 2.5 cm (1")
 - (d) Abstract:
 - Length: maximum 300 words for doctoral theses, 150 words for master's theses, and 300 words for Honours theses and Major Research Projects
 - Must be in typescript
 - Should bear the title "Abstract/Executive Summary" and include the name of the author, the title of the thesis/major research paper/project and the date of submission.
 - (e) Your title page must include the names of all advisors/examiners but cannot contain any original signatures. You must include a separate Signature Page: A page designed to contain the signature of all members of the Examining Committee, including any external examiners, if applicable. Only one copy of the Signature Page should be submitted. It will not be bound in any copies of the thesis.
- (ii) The student must also meet any additional requirements of the Program concerned.
- (iii) The student must pay the binding fee for three copies of the accepted thesis/major research paper/project at the Financial Services Office at the current rate. These copies are for the library, archives, and department; if the student wants personal copies they must submit and pay for additional copies. Note that EMBA students must submit five copies, one of which is a student copy. After all copies have been paid for, the original binding fee receipt is to be submitted to the Registrar's Office along with the three required copies (one original and two (2) copies) of the thesis/major research paper/project, plus any additional personal copies paid for. A duplicate receipt for this amount must accompany the unbound thesis/major research paper/project when delivered to the Library, as proof of payment.

(iv) All theses must include copyright permission letters (if copyrighted material is being reproduced) and Research Ethics Board Certificates (if issued). For Doctoral and Master's degree students, a completed "Permission to

Microfilm" form must also accompany the above. This form, from the National Library of Canada, Canadian Theses Division, is available from Information Services in the Library. It grants permission for the microfilming of the thesis/major research paper/project and the sale of the microfilm. A UMI form must also be included. All thesis instructions and all required forms are part of the "Format and Binding Procedures"/"Binding Data Sheet" package available at the Library's information desk, and online at www.smu.ca/administration/archives/theses.html.

d. The Library's Responsibilities

- (i) The Library arranges for the binding of all accepted theses/major research papers/projects.
- (ii) Original copies of Master's theses/major research paper/projects are sent to the National Library in Ottawa for microfilming before they are bound and placed in the archives.
- (iii) Copies of the theses/major research paper/projects are bound and distributed as follows:
- (a) One copy is sent to the student's Department;
 - (b) One copy is catalogued and made available through the General Collection of the library; and
 - (c) One copy (the original) is placed in archives and remains as non-circulating material.
- (iv) The Library will accept for binding additional copies of a thesis/major research paper/project only if the student provides the extra copies and pays the additional binding fee. (Proof of payment in the form of a duplicate receipt must accompany additional copies.)
- (v) Copies of the student's Signature Page, as well as any REB forms or copyright letters that contain original signatures will be kept of file at the University Archives.

13. Academic Regulations

Section 2 of this *Academic Calendar* contains the University's academic regulations. While many of these pertain primarily to undergraduate students, the attention of students in graduate programs is specifically directed to the following regulations:

2. Auditing Courses
4. Grading System
5. Undergraduate Rating, Grades and Grade Points (all except subsections a. and c.)
6. Grade Point Average
7. Standing Required
8. Examinations
9. Evaluations
10. Special Examinations
11. Academic Appeals
12. Credit Hours without Final Examination
13. Course Changes
16. Withdrawing from a Course
17. Retaking a Course

18. Withdrawal for Academic Reasons
19. Academic Responsibility
20. Advanced Standing
21. Transfer Credit Hours
27. Convocation Dates, Degrees, Diplomas, and Certificates
28. Degree, Diploma, or Certificate in Absentia
30. University Medals
32. Students' Academic Records and Transcripts
33. Safety and Responsibility in Officially-Sanctioned University Activities
34. University Research Ethics Board (REB)

Graduate students are also advised that the information in the registration portion of Section 2 of the *Academic Calendar* applies, in most instances, to them. Academic advising for graduate students is provided in the first instance by the thesis supervisor or Program Coordinator. If problems cannot be resolved within the program, then advice may be sought from the Dean of the Faculty of Graduate Studies and Research.

14. Specific Requirements of the Individual Graduate Programs

In addition to the above requirements, students must comply with any additional requirements of the Program concerned. These are delineated below and also in Section 5 of the *Academic Calendar*.

15. Financial Regulations

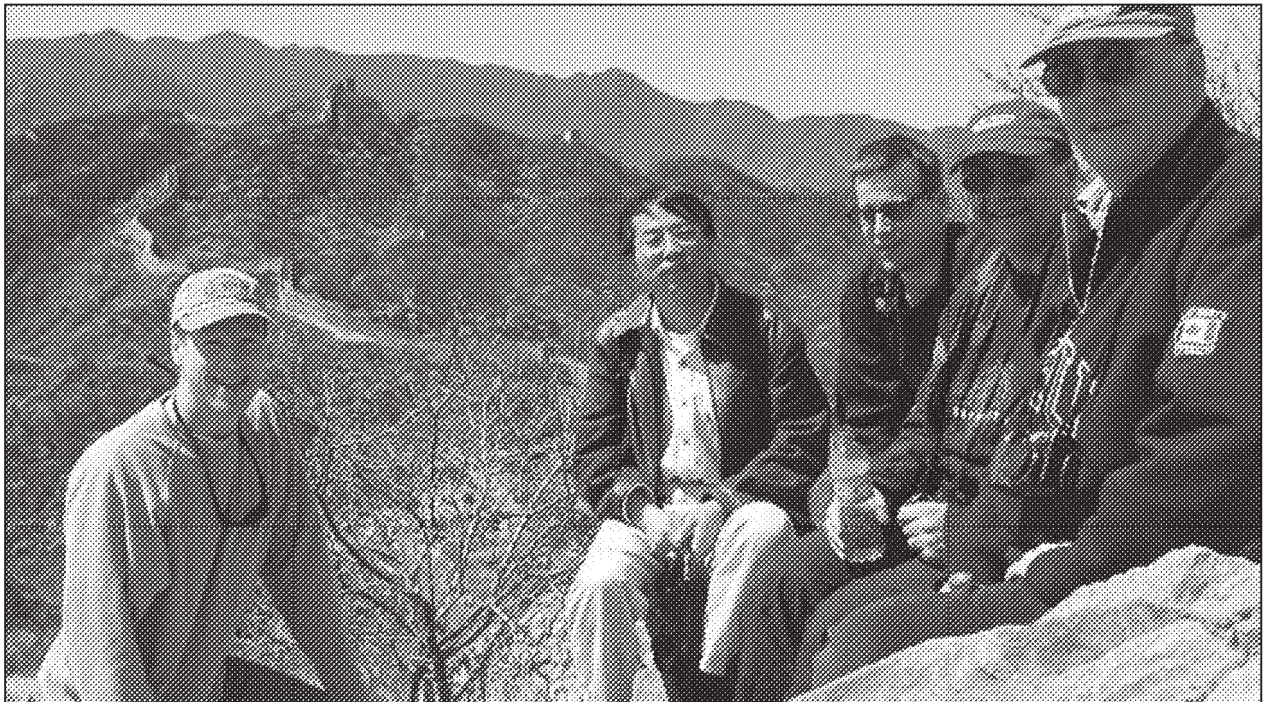
Please consult Section 6 of the *Academic Calendar* for details on all applicable fees. Only during the minimum time-for-completion of the

program will full-time students be eligible for funding from the Faculty of Graduate Studies and Research (FGSR). Part-time students are not eligible for funding from the FGSR. Normally students who receive a FGSR Fellowship or FGSR Graduate Award will receive their funds (less fees) in three instalments, one at the beginning of each semester, provided they have registered early.

Please note that in order to receive graduate funding students must be registered as a full-time student. Should a graduate student's status as a registered, full-time student change (e.g. due to withdrawal, leave of absence, change to part-time status, etc.) their graduate funding will be withdrawn, effective the date of the change of status. In such instances, graduate funding paid to the student in advance payments must be repaid to Saint Mary's University on a prorated basis.

IMPORTANT: For the proper assignment of fees and scholarship funds to students in Program-Fee Based graduate programs (see Subsection 4. Payment of Fees, above), students must be registered in FGSR9000 for every semester in which they are in their graduate program. This includes all semesters within students' maximum time-for-completion, as well as semesters within extension periods (i.e. for students who are granted extensions to their graduate programs).

For the proper assignment of fees and scholarship funds to students in Per-Course-Fee Based graduate programs (see Subsection 4. Payment of Fees, above), students must be registered in course work, or for those who have completed their in-class course work, in the appropriate Thesis Continuation course (e.g. THES9999).



Left to right: Saint Mary's Biology professors Drs. Hugh Broders, Zhongmin Dong, Jeremy Lundholm, Doug Strongman and David Cone visit the Great Wall of China during a recent visit in which they explored potential areas of research collaboration with Shaanxi Normal University.

Graduate Programs: Arts

The Faculty of Arts offers graduate programs in six areas – Atlantic Canada Studies, Criminology (both a Master's degree and a Graduate Diploma), History, International Development Studies (both a Master's degree and a Graduate Diploma), Philosophy, and Women's Studies.

Master of Arts in Atlantic Canada Studies

Committee on Atlantic Canada Studies

M. Harry, Coordinator	English
G. Barrett	Sociology
J. Chamard	Management
T. Charles	Finance, Information Systems and Management Science
L. Christiansen-Ruffman	Sociology
D. Cone	Biology
S. Davis	Anthropology
J. Hill	English
C. Howell	History
R. Hulan	English
M. MacDonald	Economics
A. MacLeod	English
R. McCalla	Geography
H. McGee	Anthropology
H. Millward	Geography
J. Morrison	History
D. Naulls	Political Science
N. Neatby	Irish Studies
P. Ó Siadhail	Irish Studies
V. Owen	Geology
D. Perrier	Sociology
J. Reid	History
A. Seaman	English
R. Twomey	History
M. Vance	History
M. VanderPlaat	Sociology
H. Veltmeyer	Sociology
P. Twohig	Canada Research Chair in ACST

Saint Mary's University offers an interdisciplinary program in Atlantic Canada Studies (ACST) that integrates the teaching and research expertise of 27 faculty members in fourteen different Departments.

The program was established in 1975 in response to a clearly defined need for regional research and as a unique experiment within the growing area of Canadian studies. At the time, a study of higher education had concluded that there was a remarkable level of ignorance in Canada about the Atlantic Region.

There are sound intellectual and practical reasons for pursuing an interdisciplinary program of regional studies. It offers a unique combination of social-scientific and cultural-historical perspectives. The program takes an interdisciplinary approach to three areas of specialization: the culture, political economy, and resource development of the region. Students learn to apply the conceptual

perspectives and analytical tools of one or more academic disciplines in their research and study.

There are particular advantages to an interdisciplinary approach to further study. This applies, for instance, to people employed by government at various levels. It also applies to managers in public and private enterprise, members of the teaching profession, business people, policy makers, and individuals whose occupation requires them to deal with social, economic, political, or cultural problems. For many of these people, a broad understanding of the region's political economy and culture is vital.

Canada Research Chair in Atlantic Canada Studies

Dr. Peter L. Twohig holds the Canada Research Chair in Atlantic Canada Studies. His research focuses on the history of health in Atlantic Canada and on contemporary health care issues. In addition, Dr. Twohig is interested in interdisciplinary research and research methods.

Opportunities are available for highly qualified graduate students interested in pursuing research on health (broadly defined), social policy, professional work (such as medicine, nursing, allied health workers, teaching, etc.) and/or the education of such persons, or qualitative research methods (particularly interview-based research) to work under Dr. Twohig's supervision.

The general requirements for the Master's degree apply to the graduate program in ACST.

Specifically, the Master's degree in ACST involves the following considerations and includes the following requirements:

1. The normal qualification for entry into the two-year Master's program is an honours degree in ACST, or a degree which the ACST Committee deems to be equivalent (i.e., to include at minimum a grade point average of at least B in the candidate's final sixty (60) credit hours taken at university). At the discretion of the Committee, a student may be admitted to the program subject to the prior completion of such qualifying work as the Committee shall prescribe. Once the student has embarked full-time on the Master of Arts program, the normal goal is completion within 24 months, although in some cases thesis work may extend beyond this time period. The degree may also be taken through part-time study.
2. The ACST Coordinator will work with all Master's students from the earliest stages of their participation in the graduate program to determine the area of a thesis topic and to select a thesis supervisor. The thesis supervisor will be the Graduate Faculty Advisor for the duration of a given student's participation in the program.
3. For the Master of Arts in ACST, all students must complete an acceptable thesis. It is not possible to satisfy the requirement for a thesis by means of extra course work.

4. Students are expected to produce a thesis which shows both originality and the analytical-critical skills of sound research and interpretation. The topic must deal directly with an Atlantic Canada subject matter.

5. All students must present and defend a thesis proposal and ultimately a thesis, before a Thesis Examining Committee. This Committee consists of a thesis supervisor, the ACST Graduate Studies Coordinator (or appointee), and a third reader acceptable to the thesis supervisor and the ACST Committee.

6. Students must complete twenty-four (24) credit hours at the 6000 level approved for the ACST graduate program. Twelve (12) of these credit hours must be selected from the following ACST seminars:

- ACST 6620.0 Culture of Atlantic Canada
- ACST 6630.0 Seminar on Atlantic Canada Ecology and Resources
- ACST 6640.0 Atlantic Canada Political Economy Seminar
- ACST 6660.0 History and Society: The Atlantic Provinces Seminar

7. All students, as part of their twenty-four (24) credit hour program, must complete ACST 6690.0. Credit for the course will be determined when the student satisfies the thesis supervisor that both thesis research and all other preparation for the successful handling of the thesis topic have been completed. Supervisors may require a demonstration of language competence or extra course work as preparation for the treatment of certain thesis topics.

The following constitute the offerings in this graduate program. Detailed course descriptions are found in Section 5 of this *Calendar*.

- 6620.0 Culture of Atlantic Canada
- 6630.0 Seminar on Atlantic Canada Ecology and Resources
- 6640.0 Atlantic Canada Political Economy Seminar
- 6650.0 Directed Reading
- 6660.0 History and Society: The Atlantic Provinces Seminar
- 6690.0 Thesis Research

Master of Arts in Criminology

Graduate Criminology Committee

Madine VanderPlaat, Chairperson	Sociology/Criminology
D. Crocker, Graduate Coordinator	Sociology/Criminology
S. Bell	Sociology/Criminology
K. Bonnycastle	Sociology/Criminology
M. Byers	Sociology/Criminology
M. Ighodaro	Sociology/Criminology
V. Johnson	Sociology/Criminology
J. McMullan	Sociology/Criminology
D. Perrier	Sociology/ Criminology
M. Rajiva	Sociology/Criminology

S. Schneider	Sociology/ Criminology
A. Schulte-Bockholt	ociology/Criminology
E. Tastsoglou	Sociology/Criminology
R. Westhaver	Sociology/Criminology

Affiliated Professors	
P. Erickson	Anthropology
T. Chorney	English
E. Keeble	Political Science
R. Konopasky	Psychology
E. Lee	Finance, Information Systems and Management Science
C. MacDonald	Philosophy
S. Malton	English
T. O'Malley	IDS
T. Peckmann	Anthropology
S. Smith	Psychology
V. Stinson	Psychology
S. Wein	Philosophy

The Master of Arts in Criminology will offer students an opportunity for advanced critical work in areas such as the social construction of crime and criminality; policing; punishment; socio-legal studies; social justice; and governance and regulation. The Program will provide students with the analytical and research skills necessary for further graduate study, research, or teaching; policy research and practice; or employment in government/non-government agencies and the private sector.

The Department of Sociology and Criminology at Saint Mary's University has established an excellent scholarly and professional reputation in the field of critical criminology.

Students may be admitted to a qualifying year in those situations where they meet all the requirements for admission but are lacking sufficient background in criminology to study at the Master's level. In these instances, a program of study will be worked out with the Graduate Program Coordinator and students will be admitted to the Master's program upon successful completion at an appropriate grade level of this qualifying year program.

1. Admission Requirements

The following conditions must be satisfied to be eligible for admission to the Master of Arts degree program in criminology or a qualifying year.

- a. Students who have earned an honours baccalaureate undergraduate degree in criminology (or equivalent), or an honours baccalaureate undergraduate degree with a concentration in criminology (or equivalent) may be admitted to a twenty-four (24) credit hour Master of Arts degree program. Only in exceptional circumstances will a student with an undergraduate degree with an advanced major be admitted.
- b. All applicants must have achieved a minimum cumulative grade point average of 3.30 (B+) in their overall academic record.

- c. Applicants must submit official transcripts; a statement that specifies areas of preparation and interest for their thesis; a sample of written work and three letters of recommendation from individuals who can attest to their academic competence and/or ability to pursue graduate work.
- d. All applicants whose native language is not English and whose undergraduate education was conducted in a language other than English, must fulfill the language requirement as set out in the Academic Regulations and Information section of the *Calendar*.
- e. The Graduate Criminology Committee of the Department of Sociology and Criminology will review the files of all applicants and make final decisions about admission into the Master of Arts degree program or a qualifying year.
- f. In addition, applicants admitted to the qualifying year must have their courses approved by the Criminology Graduate Studies Coordinator.
- g. A student in the thirty (30) credit hour qualifying year must make formal application to the Master of Arts degree program by February 1 of their qualifying year and must have attained a minimum cumulative grade point average of 3.30 (B+) to be considered for admission to the Master of Arts degree program.

2. Degree Requirements

Requirements for continuance in and graduation with a Master of Arts degree:

- a. Students must earn at least twenty-four (24) credit hours.
- b. Students must receive credit for the following:
- (i) CRIM 6600.0 Advanced Seminar in Criminology;
- (ii) CRIM 6601.1(.2) Advanced Criminological Theory;
- (iii) CRIM 6602.1(.2) Advanced Research Methodology in Criminology;
- (iv) six (6) credit hours at the 6000 level, relevant to the student's area of interest from among the following courses: CRIM 6603.1(.2); CRIM 6604.1(.2); CRIM 6605.0, CRIM 6606.1(.2); CRIM 6607.1(.2); CRIM 6608.0; CRIM 6609.1(.2); CRIM 6610.1(.2); and CRIM 6611.0;
- (v) CRIM 6615.0 Thesis Research.
- c. Students must attain a minimum grade of B+ in each course and an overall degree grade point average of 3.30 to graduate in this Master of Arts degree program.
- d. Each student must meet the following thesis (CRIM 6615.0) requirements:
- (i) to produce a thesis which shows both originality and the analytical/critical skills of research and interpretation;

(ii) to form a Thesis Committee which will consist of a Thesis Supervisor and one faculty member.

(iii) to have a thesis proposal submitted to and approved by the Thesis Committee and Criminology Graduate Studies Coordinator prior to commencement of the research;

(iv) to defend the thesis before an Examining Committee consisting of the Thesis Committee, the Criminology Graduate Studies Coordinator, and one outside reader chosen by the Thesis Committee in consultation with the Criminology Graduate Studies Coordinator and the student. In instances where the Criminology Graduate Studies Coordinator is a member of the Thesis Committee, the Criminology Graduate Studies Coordinator will appoint a representative on the Examining Committee; and

(v) to defend the thesis publicly.

e. All degree requirements must be completed within five years of entry into the Master of Arts degree program.

Graduate Courses

The following constitute the offerings in this graduate program. Detailed descriptions are found in Section 5 of this *Academic Calendar*.

CRIM 6600.0 Advanced Seminar in Criminology
 CRIM 6601.1(.2) Advanced Criminological Theory
 CRIM 6602.1(.2) Advanced Research Methodology in Criminology
 CRIM 6603.1(.2)/6604.1(.2) and 6605.0 Advanced Topics in Criminology
 CRIM 6606.1(.2)/6607.1(.2) and 6608.0 Directed Readings in Criminology
 CRIM 6609.1(.2)/6610.1(.2) and 6611.0 Selected Topics in Criminology
 CRIM 6615.0 Thesis Research

Master of Arts in History

Chairperson, Professor	C. Howell
Professors	E. Haigh, J. Morrison, J. Reid, R. Twomey
Associate Professors	W. Mills, N. Neatby, B. Sewell, T. Stretton, M. Vance
Assistant Professors	R. Barbosa, L. Warner
Adjunct Professor	R. Perrins
Professors Emeriti	O. Carrigan, J. MacCormack

The Department of History has a variety of research areas with particular strengths in Atlantic Canada and Quebec, Asia, Modern Europe and the transatlantic region of the Americas, Britain and Europe from the 16th century through to the 20th century.

Thematic approaches include:

- Imperialism, nationalism and colonialism
- Sport, health, leisure and tourism

- Social, political and intellectual movements
- Youth, education, family and gender
- Law and society
- Public and oral history

The History M.A. program at Saint Mary's combines course work and thesis research and caters to both full and part time students. For full-time students, we award fellowships of up to \$15,000 funded by Saint Mary's University and the research grants of professors in the department.

Admission requirements

To be eligible for admission to the M.A. in History, applicants are normally required to possess a Bachelor of Arts degree with Honours in History, or its equivalent, from a recognized university or college. Candidates with other types of qualifications should contact the Graduate Coordinator of the Department of History before submitting an application.

Applicants to the M.A. in History are asked to submit a thesis research proposal, a writing sample, a curriculum vitae, and a list of any scholarly awards, publications or conference papers with their application forms.

As part of the application process each student accepted into the program is assigned to a Supervisor who is the main point of contact for researching and writing the thesis. A successful application depends in part on faculty sabbatical leave and the availability of a potential supervisor in the applicant's chosen area of specialization.

Deadlines for receipt of applications:

Applicants requesting fellowships or financial assistance **15 March**. The final deadline for applications is **15 May**.

Requirements for the M.A. in History

The University's general requirements for the Master of Arts degree apply to the graduate students in the Department of History. Please see the Faculty of Graduate Studies and

Research section of the *Academic Calendar* for these regulations.

1. Candidates must complete twelve (12) History credit hours at the 6000 level in addition to HIST 6650.0 and 6690.0. The program of each student must be approved by the Department.
2. All Master of Arts candidates in History, whether studying on a full or part-time basis, must register for HIST 6650.0 and 6690.0 in their first semester.
3. The student will be required to demonstrate a reading knowledge of at least one language other than English. The Department will accept the equivalent of no less than a satisfactory grade in Saint Mary's 2000-level undergraduate language courses, or a pass in the Department of Modern Language's French Proficiency Exam. French is normally required of students intending to write a thesis on any aspect of Canadian history.

4. The subject of the thesis must be decided in consultation with the thesis advisor.

5. Upon completion of the thesis, the student undertakes an oral defence open to all members of the university community. Two months prior to this defence, the Department of History will select a thesis examination committee. Student requests for particular examiners will be considered, but cannot be guaranteed.

Graduate History Courses

The Graduate Coordinator oversees the History M.A. program and runs the core Seminar in Advanced Historiography (HIST 6650.0). The class is intended to familiarize students with research and bibliographical techniques as well as a variety of theories of history, in order to provide each student with the skills necessary to begin to research and write the Masters thesis.

The Supervisor guides the student through Thesis Research (HIST 6690.0) from the student's arrival at Saint Mary's until the completion of the thesis. In their first semester at Saint Mary's, History graduate students present their thesis proposals to a meeting of Department members and fellow students. The discussion is designed to offer comments and constructive criticism to each candidate and the proposals are evaluated on a pass/fail basis.

The Department offers both six (6) credit hours and three (3) credit hour courses at the 6000 level. In addition to the twelve (12) required credit hours – HIST 6650.0 (Seminar in Advanced Historiography) and HIST 6690.0 (Thesis Research) graduate students choose twelve (12) credit hours from the available 6000 level seminars.

Each year, in addition to the 6000 level seminars listed below, Selected Topics seminars are offered in subject areas ranging from Public History to Early Modern England. Detailed course descriptions can be found in Section 5 of his *Calendar*.

The following constitute the offerings in the graduate program. Detailed course descriptions are found in Section 5 of this *Calendar*.

- 6608.0 Seminar in Intellectual and Global History
 - 6610.0 Global History: History and Historians
 - 6611.0 Modern East Asia: Selected Problems in Modernization
 - 6615.0 Seminar in Historiography
 - 6619.0 Seminar in Modern European History
 - 6620.0 The Two World Wars
 - 6622.0 Seminar in American History
 - 6624.0 The U.S.S.R.
 - 6625.0 Seminar in Irish and Scottish Immigration
 - 6635.0 North-eastern North America, 1480-1720
 - 6527.1(.2) Biography and History
 - 6660.0 History and Society: The Atlantic Provinces Seminar
 - 6670.1(.2) – 6674.1(.2); 6675.0 Selected Topics Seminar
- These seminars change each year. Students are encouraged to visit the Department of History website for the latest information on selected topics courses:
www.smu.ca/academic/arts/history.

6689.1(.2) Reading Course in History – Selected Topics in Irish History

6695.1(.2)-6699.1(.2) Reading Courses in History

Master of Arts in International Development Studies

Program Committee on International Development Studies

A. O'Malley, Coordinator International Development Studies

R. Barbosa History

J. Chamard Management

T. Charles Finance, Information Systems and Management Science

A. M. Dalton Religious Studies

S. Dansereau International Development Studies

J. Devlin International Development Studies

M. Doucet Political Science

M. Ighodaro Sociology and Criminology

D. Leclaire International Activities

J. Morrison History

A. Schulte-Bockholt Sociology and Criminology

N. Sharif Economics

A. Spires Modern Languages

E. Tastsoglou Sociology and Criminology

H. Veltmeyer Sociology and Criminology

S. Wein Philosophy

Adjunct Professors J. Petras, J. Kirk, C. Amaratunga, D. Black, J. Kirk, R. McKinnell, J. Parpart, J. Petras, T. Shaw, J. Tellez

Note: In addition to the above IDST Program Committee members and Adjunct Professors, there are several other Saint Mary's faculty members teaching IDST related courses.

The graduate degree program is an interdisciplinary program comprising a core program of development analysis, practitioner skills, and policy-oriented courses in the field of International Development Studies. The IDS graduate Program makes considerable use of the techniques and concepts of social science disciplines such as Economics, Anthropology, Sociology and Political Science to analyze and assess development problems, but also views the contributions of History, Management, Geography, Philosophy, Religious Studies and Modern Languages, among others, as important sources of explanations and understandings which advance our knowledge of international development. The IDS Program recognizes a significant number of approved, cross-listed courses in other University departments as creditable to its program.

The interdisciplinary IDS Program provides an environment in which a combination of seminars and guided individual research are strongly focused on analyzing the problems experienced by developing countries in the Caribbean, Latin America, Asia and Africa, and Oceania regions. Together with associated courses, the IDS Program focuses not only on practical policies for remedying these problems, but also on the conceptual frameworks that explain how such problems are derived from the social, cultural, economic,

historical and political structures and forces that underlie them. An important concern of the program is with evaluating the development strategies pursued by social movements and governments in developing countries and regions. An evaluation of the different models and strategies for national and regional development, as well as an evaluation of models for local bottom-up development, in an increasingly global context, forms an essential part of a student's training within the Program.

The IDS Masters program of study will be useful to those seeking employment in national and international settings, for which knowledge of global development issues, policies and practices is increasingly needed. Such employers would include many federal government offices (CIDA, Foreign Affairs, Industry, Trade), multilateral development agencies, crown and parastatal corporations, immigration services, non-governmental organizations and professions such as teaching, journalism, development planning, public administration and business.

Requirements

The general requirements for completing a Master's degree at Saint Mary's University appearing in this section of the *Academic Calendar* also apply to the Masters program in International Development Studies (MIDS).

To obtain a Master of Arts degree in International Development Studies, all students must complete a thesis under the direction of a supervisor and a thesis committee of at least two readers, and must, with the approval of this committee, provide a public presentation of the results of their research so that the benefits of their study may be disseminated and discussed by the University community and interested members of the public at large. Students whose professional goals require graduate-level studies without a thesis are encouraged to pursue the IDS Program's one-year Graduate Diploma in International Development Studies.

The IDS Program encourages students to pursue thesis topics that cover a wide spectrum of student interests. Topics may range from applied, development practitioner-oriented studies—such as project management assessment of an NGO, assessing local community practices in sustainable waste management, or assessing a regional development agency's policies regarding objectives and deliverables—to broader, structural analyses of the dynamics of the global order, global sustainable development policies, popular responses to global policy regimes, or national/regional responses to socioeconomic restructuring or migration. Most graduate students elect to carry out fieldwork overseas—using contacts derived from their own initiative or through IDS Program university linkages and networks—so there is ample opportunity to acquire field experience in the context of the student's thesis research.

The IDS Master's Program is able to offer financial support to students on a competitive basis, although students should note that such support is only available to full-time students.

Due to the sequential nature of many IDS graduate seminars, the IDS Program is unable to accept any students for January admission to the MIDS. Note that the Faculty of Graduate Studies and Research academic year begins on September 1 and ends on August 31, and consists of three, four-month semesters. Students are not required to be in residence at the University during the third (summer) semester.

All graduate students in the IDS Program are required to participate in the IDS Program Speakers Series, which provides a forum for students to discuss central development issues with invited guests from multilateral agencies, NGOs, academia, and the private sector.

Details of Program requirements, current areas of specialization and ancillary matters may be found in the comprehensive International Development Studies Handbook, available from the Program secretary or the IDS website (www.arts.smu.ca/ids).

CATEGORY I (42 credit hours)

Students who have earned an honours baccalaureate undergraduate degree (or its equivalent) with a minor concentration in International Development Studies or relevant social sciences, or who have earned a baccalaureate undergraduate degree and can demonstrate to the satisfaction of the Admissions Committee that they have had considerable practical experience in the field of international development, may be admitted into the forty-two (42) credit hour regular program. The IDS Program reserves the right to add up to three (3) credit hours to this course load should the incoming student show evidence of a specific gap in undergraduate preparation.

The course requirements for this six (6) semester, two-year program are successful completion of the following courses together with nine (9) credit hours in electives chosen for their relevance to the student's intended area of research (see the IDS *List of Approved Courses*):

- IDST 5543.1 Seminar: Conceptual Foundations
- IDST 5544.2 Seminar: Contemporary Issues
- IDST 6601.1 Dynamics of Development: Frameworks of Analysis
- IDST 6602.2 Dynamics of Development: Critical Issues
- IDST 6644.1(.2) Macroeconomic Development
- IDST 6620.1(.2) Advanced Research Methods
- IDST 6663.1(.2), (Regional Specialization course)
- or 6662.1(.2), or 6661.1(.2)
- IDST 6664.1(.2), (Area Specialization course)
- or 6622.1(.2), or 6623.1(.2)
- IDST 6692.1(.2) Thesis Design
- IDST 6690.0 Thesis Course.

A typical Category I student schedule would be:

Semester I

- Seminar: Conceptual Foundations of Development
- Elective
- Area or Regional Specialization course
- Macroeconomic Development (Speakers Series)

Semester II

- Seminar: Contemporary Issues
- Elective
- Area or Regional Specialization course
- Advanced Research Methods (Speakers Series)

Semester III

- Thesis Outline Preparation (Directed Reading/Internship Option)

Semester IV

- Dynamics of Development: Frameworks of Analysis
- Thesis Design
- Thesis Course (Speakers Series)

Semester V

- Dynamics of Development: Critical Issues/Debates
- Directed Reading or Elective
- Thesis Course (Speakers Series)

Semester VI

- Thesis Fieldwork/Write-up

CATEGORY II (27 credit hours)

Students who have earned an honours baccalaureate undergraduate degree with a major concentration in International Development Studies may be admitted directly into a twenty-seven (27) credit hour accelerated program. The IDS Program reserves the right to add up to three (3) credit hours to this course load should the incoming student show evidence of a specific gap in undergraduate preparation.

The course requirements for this program are successful completion of the following courses together with six (6) credit hours in electives chosen for their relevance to the student's intended area of research (see the IDS *List of Approved Courses*):

- IDST 6601.1 Dynamics of Development: Frameworks of Analysis
- IDST 6602.2 Dynamics of Development: Critical Issues
- IDST 6620.1(.2) Advanced Research Methods
- IDST 6663.1(.2), (Regional Specialization courses)
- 6662.1(.2), or 6661.1(.2)
- IDST 6664.1(.2), (Area Specialization course)
- or 6622.1(.2), or 6623.1(.2)
- IDST 6692.1(.2) Thesis Design
- IDST 6690.0 Thesis.

A typical Category II student schedule would be:

Semester I

Dynamics of Development: Frameworks of Analysis
Thesis Design
Regional Course
Elective
Thesis Course
(Speaker Series)

Semester II

Dynamics of Development: Critical Issues/Debates
Advanced Research Methods
Area Course
Elective
Thesis Course
(Speakers Series)

Semester III

Thesis Fieldwork/Write-up

Restrictions/Conditions

1. A minimum average grade of B (or equivalent) is required for graduation.
2. All degree requirements must be completed within five years of the date of first registration in the program.
3. Selected courses offered by associated academic units departments at Saint Mary's University will be chosen from an approved list and/or in consultation with the International Development Studies Coordinator.
4. The IDS Program may allow a graduate student to take courses for credit at other university-level institutions. However, approval of the IDS Coordinator must be obtained for such courses, and in no case shall such courses exceed two in number without further special permission of the IDS Program.

Application

1. Applicants must submit: official academic transcripts, a statement that specifies areas of preparation and interest, and three letters of recommendation from individuals who can attest to the applicant's academic or professional competence relevant to graduate studies in international development.
2. A minimum score of 550 on the TOEFL is required of all international applicants whose native language is not English and/or whose undergraduate education was in a language other than English.
3. The Admissions Committee of the IDS Program carefully reviews the files of all applicants, and recommends admission to the Program on a competitive basis. Successful applicants will be advised of the category of their admission and the credit requirements of their program in the Letter of Acceptance.

Master of Arts in Philosophy

Chairperson	J. MacKinnon
Undergraduate Advisor	L. Gannett
Graduate Programme Coordinator	C. MacDonald
Professor	S. Wein
Associate Professors	S. Crooks, J. MacKinnon, P. March, M. Mercer
Assistant Professors	R. Ansell, L. Gannett, C. MacDonald
Professors Emeriti	R. Beis, W. Grennan, A. Monahan, W.A. Stewart, S.J.

The University's general requirements for admission for graduate studies and for the Masters degree apply to the Department of Philosophy. The particular requirements of the Department are available at the Department's website.

1. Admission Requirements

- a. Only students who have earned an honours degree in Philosophy, or the equivalent, will be admitted to the one-year program. Other students must first obtain the equivalent of an honours degree in Philosophy.
- b. The Departmental Graduate Studies Committee will review applicants' files and make recommendations to the Department on admissions. The Committee must be satisfied that there is a member of the Department able and willing to act as a thesis supervisor. The Department will make final decisions on admissions.

2. Degree Requirements

- a. The student will take a total of twenty-four (24) credit hours at the 6000-level, 6 credit hours of which will be earned through writing a thesis (6697.0 Master's Thesis). Typically graduate students will attend undergraduate classes, and in all cases they will follow an independent syllabus agreed on between the Graduate Officer, the course instructor, and the student.
- b. As soon as possible after acceptance into the Master of Arts program, the student will submit a formal thesis proposal to the Departmental Graduate Studies Committee. In consultation with the student and faculty members concerned, and subject to Departmental approval, the Graduate Officer will appoint a thesis supervisor for each graduate student and authorize each student to proceed with the writing of the thesis. Normally the thesis will have a length of approximately 20,000 words (eighty pages). The thesis must exhibit an understanding of the issues with which it deals, an ability to construct cogent arguments concerning them, and an ability to make cogent criticisms of positions and arguments.
- c. When the thesis is completed, the student will submit it to the Departmental Graduate Studies Committee, which

will, subject to Departmental approval, appoint three examiners, one of whom will normally be the thesis supervisor. Copies of the thesis will be made available in advance to the examiners. The Graduate Officer will set a time for the thesis defence, to which members of the academic community will be invited. Following the thesis defence, the examiners will report their assessment to the Graduate Officer and the student in writing.

The following constitute the offerings in this graduate program. Detailed course descriptions are found in Section 5 of this Calendar.

6000.0 Metaphysics
 6601.1(.2) Honours/Graduate Seminar
 6602.1(.2) Philosophy of Language: Meaning
 6604.1(.2) Theory of Knowledge: Foundations
 6605.1(.2) Theory of Knowledge: Ethics of Belief
 6510.1(.2) Advanced Topics in Applied Ethics
 6611.1(.2) Political Thought: The Classic Texts
 6612.1(.2) Contemporary Political Philosophy
 6415.1(.2) Argumentation Theory
 6616.1(.2) Advanced Logic and Methodology
 6625.1(.2) International Justice
 6627.1(.2) Philosophy of Mind: The Classic Texts
 6628.1(.2) Philosophy of Mind: Contemporary Issues
 6642.1(.2) Early Modern Philosophy: The Rationalists
 6643.1(.2) Early Modern Philosophy: The Empiricists
 6644.1(.2) Later Modern Philosophy: Kant
 6645.1(.2) Greek Philosophy: The Presocratics and Plato
 6646.1(.2) Greek Philosophy: Aristotle and the Hellenists
 6648.1(.2) Aesthetics: The Classical Tradition
 6649.1(.2) Aesthetics: Contemporary Debates
 6652.1(.2) Philosophy of Science
 6654.1(.2) Philosophy of History
 6655.1(.2) Existentialism: The 19th Century
 6656.1(.2) Existentialism: The 20th Century
 6665.0 Analytic Philosophy
 6671.1(.2) Meta-ethics
 6672.1(.2) Foundation of Ethics
 6679.0 Senior Seminar
 6680.0 Philosophical Issues in Feminism
 6685.1(.2)-6689.1(.2); 6690.0-6695.0 Reading Courses in Philosophy
 6697.0 Master's Thesis

Master of Arts in Women's Studies

(offered jointly by Mount Saint Vincent University and Saint Mary's University)

Faculty

Coordinator of Graduate Program A. MacNevin
 in Women's Studies (Saint Mary's)

The following faculty members from the two universities are available to serve as student supervisors in the Master of Arts in Women's Studies:

P. Baker (MSVU)	Sociology/Social Anthropology
S. Bell (SMU)	Sociology and Criminology
S. Bruhm (MSVU)	English
M. Byers (SMU)	Sociology
J. Cauville (SMU)	Modern Languages
L. Christiansen-Ruffman (SMU)	Sociology/IDST
D. Crocker (SMU)	Sociology and Criminology
S. Crooks (SMU)	Philosophy
A. Dalton (SMU)	Religious Studies
M. Delaney (MSVU)	Psychology
J. Déléas (MSVU)	Modern Languages/Fine Arts
A. Dobrowolsky (SMU)	Political Science
F. Early (MSVU)	History
D. Evenden (MSVU)	History
P. Fitzgerald (SMU)	Management
B. Frank (MSVU)	Education
J. Gordon (MSVU)	Sociology/Anthropology
S. Hamilton (MSVU)	Women's Studies
T. Heffernan (SMU)	English
R. Hulan (SMU)	English
W. Katz (SMU)	English
E. Keeble (SMU)	Political Science
M. MacDonald (SMU)	Economics
K. Macfarlane (MSVU)	English
A. MacNevin (SMU)	Sociology
C. Mathieson (MSVU)	Psychology
S. Medjuck (MSVU)	Sociology/Anthropology
L. Neilsen (MSVU)	Education
D. Norris (MSVU)	Human Ecology
H. Ralston (SMU)	Sociology
M. Ralston (MSVU)	Women's Studies
J. Scrimger (MSVU)	Public Relations
N. Sharif (SMU)	Economics
K. Side (MSVU)	Women's Studies
E. Tastsoglou (SMU)	Sociology/IDST
G. Thomas (SMU)	Classics
G. Thomas (SMU)	English
M. VanderPlaat (SMU)	Sociology and Criminology
D. Varga (MSVU)	Child and Youth Studies
R. Warne (MSVU)	Religious Studies
R. Zuk (MSVU)	English

Consult the *Academic Calendars* of the two cooperating institutions.

Program

This degree is offered jointly by Mount Saint Vincent University and Saint Mary's University. The degree will be granted jointly by the cooperating universities, and each student's program will be approved by the Joint Graduate Admissions and Program Committee (GAPC).

The Master of Arts in Women's Studies emphasizes the interdisciplinary basis of Women's Studies, its community linkage, and the emerging body of feminist theories and methodologies. Drawing on the collective resource of faculty members from the two cooperating universities, the program has the following areas of specialties: Feminism and Global Issues; Feminism and Cultural Studies; Feminist Environmental Issues; Feminist Literary Theory and Literary History; Feminist Studies of Language and Linguistics; Feminist Theory and Methodology; Gender and Development; Gender and Education; Lesbian/Bisexual/Queer Studies; North American Women's History; Women and Health; Women and Sexuality; Women and Social Change; Women and Religion/Spirituality; Women and Work; Women, Human Rights and Social Justice; Women, Race and Ethnicity; Women's Writing.

Admission Requirements

In addition to following normal university procedures for application to graduate programs, students must submit official transcripts, three letters of reference, and a supplementary application form. Application can be made to either of the two universities. Decisions on admission are made by the Interuniversity Joint Graduate Admissions and Program Committee (GAPC) for Women's Studies. Enrolment is limited. Admission will also be based on the availability of Women's Studies faculty with the expertise to supervise in the student's proposed area of research.

Program Requirements

The thirty (30) credit hour program includes both course work and thesis and can be pursued either full-time or part-time. It may be completed in twelve months but often requires two years. Normally, the thirty (30) credit hour program will consist of:

Three core courses: three (3) credit hours each for a total of nine (9) credit hours including:
Theories of Feminism – GWST 6601.1(.2)
Feminist Methodologies – GWST 6602.1(.2)
Graduate Seminar – GWST 6630.1(.2)

Twelve (12) credit hour thesis: GWST 6698.0 and GWST 6699.0

Elective(s): nine (9) credit hours. One three (3) credit hour elective should address fundamental approaches to feminism. The electives can be chosen from graduate level courses offered by a range of departments at the two universities, in consultation with the student's program coordinator.

The following constitute the offerings in this graduate program. Detailed course descriptions are found in Section 5 of this *Calendar*.

GWST 6601.1(.2) Theories of Feminism
GWST 6602.1(.2) Feminist Methodologies
GWST 6630.1(.2) Graduate Seminar
GWST 6604.1(.2)-6605.1(.2) and 6606.0 Contemporary Issues in Feminism
GWST 6609.1(.2)-6611.1(.2); 6612.0-6613.0 Directed Study
GWST 6614.1(.2)-6615.1(.2) and 6610.0 Directed Readings in Women's Studies
GWST 6620.1(.2) Feminist Tradition in Scholarship
GWST 6621.1(.2) Feminist Tradition in Contemporary Scholarship
GWST 6631.1(.2) Community-Based Learning
GWST 6698.0/6699.0 Thesis

Graduate Diploma in Criminology

M. VanderPlaat, Chairperson	Sociology/Criminology
S. Bell, Graduate Coordinator	Sociology/Criminology
K. Bonnycastle	Sociology/Criminology
D. Crocker	Sociology/Criminology
A. Day	Psychology
P. Erickson	Anthropology
V. Johnson	Sociology/Criminology
E. Keeble	Political Science
R. Konopasky	Psychology
E. Lee	Finance, Information Systems and Management Science
J. McMullan	Sociology/Criminology
D. Perrier	Sociology/Criminology
S. Schneider	Sociology/Criminology
A. Schulte-Bockholt	Sociology/Criminology
S. Smith	Psychology
V. Stinson	Psychology

Admission Requirements

To be eligible for admission to this graduate diploma program, applicants must satisfy the following criteria:

- a. have an honours baccalaureate undergraduate degree in criminology (or equivalent); an honours baccalaureate undergraduate degree with a concentration in criminology (or equivalent); or an advanced major undergraduate degree [minimum of one hundred and twenty (120) credits] with a concentration in criminology (or equivalent);
- b. have achieved a minimum cumulative grade point average of 3.30 in their overall academic record;
- c. submit official transcripts from recognized post-secondary academic institutions; and
- d. submit three letters of reference attesting to their academic abilities.

e. All applicants whose native language is not English and whose undergraduate education or professional experience was conducted in a language other than English, must fulfill the language requirement as set out in the Academic Regulations and Information section of the *Calendar*.

f. The Graduate Criminology Committee of the Department of Sociology will review the files of all applicants and make final decisions about admission into the Graduate Diploma in Criminology. Possession of the minimum qualifications does not guarantee admission.

Degree Requirements

Requirements for continuance in and graduation from the Graduate Diploma in Criminology. Students must:

- a. earn at least twenty-four (24) credit hours;
- b. achieve a minimum grade of B+ in all courses required of their program; and
- c. complete the course requirements within five years of formal admission to the program.

Program Requirements

The Graduate Diploma in Criminology requires a minimum of twenty-four (24) credit hours: twelve (12) core credit hours (as designated below) and twelve (12) elective credit hours (also so designated):

- a. Core Courses – twelve (12) credit hours:
 CRIM 6600.0 Advanced Seminar in Criminology
 CRIM 5501.1(.2) or CRIM 6601.1(.2) Advanced Criminological Theory
 CRIM 5502.1(.2) or CRIM 6602.1(.2) Advanced Research Methodology in Criminology
- b. Elective Courses – twelve (12) credit hours:
 CRIM 6603.1(.2)/CRIM 6604.1(.2) Advanced Topics in Criminology
 CRIM 6605.0 Advanced Topics in Criminology
 CRIM 6606.1(.2)/CRIM 6607.1(.2) Directed Readings in Criminology
 CRIM 6608.0 Directed Readings in Criminology
 CRIM 6609.1(.2)/CRIM 6610.1(.2) Selected Topics in Criminology
 CRIM 6611.0 Selected Topics in Criminology

Graduate Courses

The following constitute the offerings in this graduate program. Details descriptions are found in Section 5 of this Academic Calendar.

- CRIM 6600.0 Advanced Seminar in Criminology
- CRIM 6601.1(.2) Advanced Criminological Theory
- CRIM 6602.1(.2) Advanced Research Methodology in Criminology
- CRIM 6603.1(.2)/6604.1(.2) Advanced Topics in Criminology
- CRIM 6605.0 Advanced Topics in Criminology
- CRIM 6606.1(.2)/6607.1(.2) Directed Readings in

- Criminology
- CRIM 6608.0 Directed Readings in Criminology
- CRIM 6609.1(.2)/6610.1(.2) Selected Topics in Criminology
- CRIM 6611.0 Selected Topics in Criminology

Graduate Diploma in International Development Studies

Program Committee on International Development Studies

- A. O'Malley, Coordinator International Development Studies
- R. Barbosa History
- J. Chamard Management
- T. Charles Finance, Information Systems and Management Science
- A. M. Dalton Religious Studies
- S. Dansereau International Development Studies
- M. Doucet Political Science
- D. Leclair (ex officio) International Activities
- J. Morrison History
- A. Schulte-Bockholt Sociology and Criminology
- N. Sharif Economics
- A. Spires Modern Languages
- E. Tastsoglou Sociology and Criminology
- H. Veltmeyer Sociology and Criminology
- H. Veltmeyer Sociology and Criminology
- S. Wein Philosophy
- Adjunct Professors J. Petras, J. Kirk,
 C. Amaratunga, D. Black, J. Kirk,
 R. McKinnell, J. Parpart,
 J. Petras, T. Shaw, J. Tellez
 K. Ahooja-Patel

Note: In addition to the above IDS Program Committee members and Adjunct Professors, there are several other Saint Mary's faculty members teaching IDS related courses

Please note: Applicants should review their professional needs carefully and chose between pursuing the Graduate Diploma or the Masters of Arts degree in IDS at Saint Mary's. Normally, a Graduate Diploma student will not be eligible to subsequently apply to the MA program. However, exceptionally well-qualified Graduate Diploma students who have demonstrated superior academic performance during their Diploma program may be invited to apply to the MA Program upon completion of their degree.

Program

The IDS graduate program is an interdisciplinary program comprising a core program of development analysis, practitioner skills, and policy-oriented courses in the field of International Development Studies. The IDS graduate Program makes considerable use of the techniques and concepts of social science disciplines such as Economics, Anthropology, Sociology and Political Science to analyze and assess development problems, but also views the contributions of History, Management, Geography, Philosophy, Religious Studies and Modern Languages, among others, as important sources of explanations and understandings which advance our knowledge of

international development. The IDS Program recognizes a significant number of approved, cross-listed courses in other University departments as creditable to its program.

The IDS Graduate Diploma Program of study will be useful to those wishing to pursue graduate-level studies, and wishing to obtain a graduate degree, with a view to employment in professional settings demanding knowledge of international development issues, analysis and practical skills. Such employment would include many federal government offices (CIDA, Foreign Affairs, Industry, Trade), multilateral development agencies, crown and parastatal corporations, immigration services, non-governmental organizations, and professions such as teaching, journalism, development planning, public administration and business.

The Graduate Diploma is offered to students with professional goals not requiring a masters degree, and to practicing professionals in business, non-governmental organizations and the civil service, at home or overseas, who wish certificated, intensive professional upgrading at the graduate level in the area of international development, but who do not have the time to pursue a program of masters research and have no need of a masters degree.

Due to the sequential nature of many IDS graduate seminars, the IDS Program is unable to accept any students for January admission to the Graduate Diploma. Also note that the Faculty of Graduate Studies and Research academic year begins on September 1 and ends on August 31, and consists of three, four-month semesters.

All graduate students in the IDS Program are required to participate in the IDS Program Speakers Series, which provides a forum for students to discuss central development issues with invited guests from multilateral agencies, NGOs, academia, and the private sector.

Details of Program requirements, current areas of specialization and ancillary matters may be found in the comprehensive International Development Studies Handbook, available from the Program secretary or the IDS website (www.arts.smu.ca/ids).

Admission Requirements

Students wishing to apply for the Graduate Diploma must comply with the general provisions governing application to the Faculty of Graduate Studies and Research at Saint Mary's University, and must provide:

1. Certified evidence of having completed an undergraduate, baccalaureate degree (or its equivalent) at a recognized, post-secondary institution of higher learning. If the applicant's undergraduate preparation has not been in an IDS-related field (principally, the social sciences), the applicant must provide evidence of having had experience as a development practitioner. The IDS Program interprets this latter requirement broadly, and with sufficient scope to include many forms of personal and professional experience;

2. Official transcripts, together with any other supporting documentation the applicant feels may be relevant to his/her undergraduate education;

3. At least two letters of reference attesting to the applicant's academic and/or professional competence, suitability, and relevant experience; and

4. For applicants whose native language is not English, and whose undergraduate education was conducted in a language other than English, certified documentation of a minimum score of 550 on the TOEFL (or its equivalent).

Requirements

The course requirements for this one-year, three (3) semester, twenty-four (24) credit hour program are successful completion of the following courses together with twelve (12) credit hours in electives chosen for their relevance to the student's area of interest in international development studies:

- IDST 5543.1 Seminar: Conceptual Foundations
- IDST 5544.2 Seminar: Contemporary Issues
- IDST 6663.1(.2), or 6662.1(.2), or 6661.1(.2), etc. (Regional Specialization course)
- IDST 6664.1(.2), or 6622.1(.2), or 6623.1(.2), etc. (Area Specialization course)

The student's electives shall be chosen from the IDS Program's List of Approved Courses. Special requests for permission to take a course not on the List of Approved Courses will be considered, but will be understood as exceptional, and in all cases will require the explicit permission of the IDS Coordinator or his/her delegate.

A typical Graduate Diploma student schedule would be:

Semester I	Semester II
Seminar: Conceptual	Seminar: Contemporary Foundations of Development Issues
Elective	Elective
Area Specialization course	Regional Specialization course
Elective Elective (Speakers Series)	Elective Elective (Speakers Series)

Semester III

Optional Directed Reading or Field Research

Restrictions/Conditions

1. Once having completed all coursework, the Graduate Diploma student is no longer required to be in residence at the University. However, some students may wish to lighten their Semester I course load by taking a Directed Reading or Field Research course during Semester III in place of the second elective in Semester I. These Semester III courses do not require the student to be in residence at the University,

although the student may elect to remain in residence in order to make use of University resources. Whatever the case, for all official purposes, the student is considered to be attending Saint Mary's University as a full-time student for one full academic year.

2. Courses taken to fulfill the requirements of an undergraduate program cannot be transferred to fulfill the requirements of the Graduate Diploma in IDS.
3. A minimum average grade of B (or equivalent) is required for graduation.
4. Selected courses offered by associated academic units departments at Saint Mary's University will be chosen from the IDS *List of Approved Courses* and/or in consultation with the International Development Studies Coordinator.
5. The IDS Program may allow a graduate student to take courses for credit at other university-level institutions. However, approval of the IDS Coordinator must be obtained for such courses, and in no case shall such courses exceed two in number without further special permission of the IDS Program.

Graduate Courses in Geography

Although the Department of Geography does not offer a graduate program, a number of graduate level courses are available. These are:

GEOG 5614.1(.2) Integrated Coastal Zone Management
 GEOG 5623.1(.2) Glacial Geomorphology
 GEOG 5632.1(.2) Social Geography of the City
 GEOG 5633.1(.2) Fluvial Geomorphology
 GEOG 5636.1(.2) Advanced Remote Sensing
 GEOG 5639.1(.2) Urban Historical Geography
 GEOG 5642.1(.2) Urban Planning
 GEOG 5643.1(.2) Natural Hazards
 GEOG 5652.1(.2) The Geography of Urban Transportation
 GEOG 5653.1(.2) Coastal Geomorphology
 GEOG 5686.1(.2) Concepts in GIS
 GEOG 5696.1(.2) Applications in GIS
 GEOG 6602.0 Directed Studies in Urban/Regional Geography
 GEOG 6603.0 Directed Studies in Environmental Geography
 GEOG 6604.0 Directed Studies in Marine Geography
 GEOG 6605.0 Directed Studies (General)
 GEOG 6612.1(.2) Directed Studies in Urban/Regional Geography
 GEOG 6613.1(.2) Directed Studies in Environmental Geography
 GEOG 6615.1(.2) Directed Studies (General)
 GEOG 6624.1(.2) Directed Studies in Marine Geography

For further information, please consult the Chairperson of the Department of Geography.



Four students from the Sobey School of Business have proved that they have no problem moving from the classroom to the boardroom. The team of Michelle Bailey, Brent Layton, Serena Mortlock (L-R, front row), Dr. David Wicks (coach), and Colin MacAdam (L-R, back row), placed 2nd overall in the 24th Annual John Molson International Case Competition.

Graduate Programs: Sobey School of Business

Executive Master of Business Administration (EMBA)

Executive Director H. Silverstein
Adjunct Professors Timothy O'Neill, Alex Faseruk, Sanjay Sharma, Pauline Downer L. Holmval
Program Manager Bonnie Kirby

The Program

The Executive MBA is a four-semester program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions and senior executives who want to increase significantly their personal and organizational effectiveness. The Executive MBA is structured as an integrative program that will enhance participants' ability to think across functional lines and understand better the "whole enterprise" in its global competitive situation.

Qualifications for Admission

The EMBA Admissions Committee will consider an applicant's prior academic record, scores on the GMAT, military or work experience, extracurricular activities, letters of recommendation, and the written application. While each of these general criteria is important, the applicant's entire profile will be evaluated, where significant strengths in one area may help compensate for weaknesses in another.

Test scores and academic records will be evaluated as evidence of academic grade; however, the Admissions Committee will

also look for personal qualities, such as leadership and motivation, which are important for success as a manager.

A written application, including a statement of the objectives of the student, and interview will be the basis of the Admissions Committee's decision. Applications will not be evaluated until the application is complete, including test scores. It will be the responsibility of the applicant to ensure that the application is complete.

In general, an applicant for admission to the Executive MBA program will have:

1. substantial experience at the senior management level;
2. sponsorship by an employer who agrees to support their employee's participation in the program;
3. a bachelor's degree with high standing or equivalent qualification (in certain cases, consideration will be given to students who do not hold a bachelor's degree);
4. taken and achieved a satisfactory score on the Graduate Management Admissions Test (GMAT), or its equivalent, such as the GRE (may be waived for engineers, accountants and those with a post-graduate degree);

5. two letters of reference from work-related or academic sources.

Prior to starting the program, each student will participate in team-building, accounting and research skills workshops.

Program Features

- A four-semester course of study leading to the degree of Master of Business Administration.
- Classes will meet on alternating weeks on Fridays and Saturdays during the academic year.
- Managerial experiences and practical backgrounds of participants will be utilized.
- A broad management view of various business and organizational problems will be provided.
- A global perspective of business will be developed with an International Business Trip as a required part of the program.
- An understanding of economic, social, political, and environmental forces that affect the organization and influence managerial decisions will be developed.
- An exchange of information and insights will be encouraged among participants from diverse industries, organizations, functions and responsibilities.
- The sponsoring organization and its participating manager will be able to meet common educational goals without major disruptions of job assignments and home life.

Application Procedures

Applications to the Executive MBA program should be made as early as possible. Application material and program information may be obtained by contacting:

The Manager, Executive MBA Program
Saint Mary's at the World Trade Centre
Suite 801 – 1800 Argyle St
Halifax NS B3J 3N8
Tel (902) 420-5175
Fax (902) 420-5284

Application information and forms are also available on the Internet at www.smu.ca/emba.

Program Structure

The EMBA program consists of 16 modules of 26 hours each, over a four-semester period, or four modules totalling 104 hours in each semester. Classes are held on alternating weeks on Fridays from 9:00 a.m. to 5:00 p.m. and Saturdays from 8:30 a.m. to 4:30 p.m. Eight subjects (see curriculum below) are covered in the first year.

Year II of the program will follow the class schedule followed in Year 1.

C = 2.00 = Marginal pass
 F = 0.00 = Failure
 IP = — = In Progress

Curriculum

First Year: Required Courses

- EMBA 5511.1(.2) Managerial and Financial Accounting
- EMBA 5512.1(.2) Organizational Behaviour
- EMBA 5513.1(.2) Strategic Marketing
- EMBA 5514.1(.2) Business Research Methods
- EMBA 5521.1(.2) Corporate Finance
- EMBA 5522.1(.2) Managerial Economics
- EMBA 5523.1(.2) Operations Management
- EMBA 5524.1(.2) Human Resource Management

Second Year: Required Courses

- EMBA 6631.1(.2) Management Information Systems
- EMBA 6632.1(.2) International Capital Markets
- EMBA 6633.1(.2) Policy I – Business Strategy
- EMBA 6634.1(.2) Business Research Project I
- EMBA 6641.1(.2) International Business (See note a below)
- EMBA 6642.1(.2) Policy II – Public Policy in Business
- EMBA 6646.1(.2) Business Research Project II

Elective Courses

- EMBA 6643.1(.2) Industrial Relations
- EMBA 6644.1(.2) Financial Innovations
- EMBA 6645.1(.2) International Marketing
- EMBA 6647.1(.2) Entrepreneurship and Family Business
- EMBA 6690.1(.2) Seminar in Business Studies
- EMBA 6691.1(.2) Directed Study

Summary: 15 required courses; 1 elective.

Note: (a) An International Business Trip of approximately 10 to 14 days is an integral and required part of this course and hence the EMBA Program

Evaluation

In order to qualify for a Master’s degree, a student shall obtain a minimum cumulative grade point average of at least 3.00. Failure of a course requires the withdrawal from the program.

An EMBA student who is required to withdraw may, after the lapse of one calendar year, seek re-admission. The application for re-admission shall be evaluated by the EMBA Council (and not the Admissions Committee alone). The Council may deny re-admission or re-admit subject to stipulated conditions. A student may withdraw voluntarily and seek admission in later years. After a lapse of three years, credit for previous EMBA courses will not be recognized.

Letter grades and grade points for graduate courses will be assigned as follows:

A+ = 4.00 = Excellent
 A = 4.00 = Excellent
 A- = 3.67 = Very Good
 B+ = 3.33 = Good
 B = 3.00 = Satisfactory
 B- = 2.67 = Below graduate standard

Custom-Designed Programs

Saint Mary’s University can custom design the EMBA program to meet the needs of Canadian or international clients. Instruction can be offered on Saint Mary’s premises or on the premises of the client. Program timetable is flexible.

Custom-designed programs observe the regular admission and program requirements and include the option of a specialized focus. Like the regular general program, specialized programs feature a cohort-driven, lock-step curriculum leading to the Master of Business Administration degree.

Master of Business Administration (MBA)

Acting Associate Dean Gordon Fullerton
 Managing Director Leah Ray

Program Objectives

The primary objective of the Master of Business Administration Program is to provide an intellectual and social environment in which students develop their potential as effective managers. The Saint Mary’s MBA program will ensure that students develop an understanding of how the different functions of a business interrelate in the business situation. This is a priority in the student’s educational experience that is achieved through the emphasis the program places on integration and business simulation activities as well as the focus placed on business strategy and policy. The program also provides students with the flexibility to design a program of study that is general in orientation or more focused and specialized.

Qualifications for Admission

Admission to the MBA program is competitive. Meeting minimum requirements does not guarantee admission to the program. The following are required for consideration for admission:

- 1. Degree:** An undergraduate degree in any discipline with at least a “B” average. Official transcripts must be sent from each post-secondary institution attended by the applicant.
- 2. GMAT:** A satisfactory GMAT score (average in the last two years has been 600, with 550 usually as the minimum). We use GMAT to evaluate both quantitative and verbal skills. A minimum competency in both areas is expected. GMAT essay scores should not be below 5.0. GMAT score must be less than five years old.
- 3. English Language Proficiency:** The MBA program is fast-paced with much reading, report writing and team work. Strong English language proficiency is important for success in the program. Students whose native language is not

English must submit a TOEFL, CAEL, or a CanTest score. A TOEFL score of at least 237 in the Computer-Based TOEFL (or 580 in the paper-based TOEFL) and a TWE score of at least 5.0 are required. A CAEL score of at least 70 is required. Alternatively, applicants can submit CanTest scores of at least 4.5, with no individual component score (oral communication, listening, reading and writing) below 4.0. TOEFL or CanTest scores must be less than two years old.

4. Work Experience: Work experience is not required for admission to the MBA program, but relevant experience from full-time, part-time and cooperative work placements would be considered assets. For applicants submitting work experience as part of their applications, please detail the nature of the work experience, duration in each position, nature of responsibilities and contribution made to the employer.

5. Motivation and Leadership Potential: Through a combination of academic work, previous experience and extra-curricular activities, applicants must demonstrate a high level of motivation for success and leadership potential. Test scores and undergraduate marks are evaluated for academic ability. The admissions committee will also look for leadership and managerial potential. In addition to evaluating the application, essays, test scores, reference letters and transcripts, the admissions committee may require a personal or telephone interview before a final decision is made. While each of the five criteria listed above is important, the applicant's entire profile will be evaluated and suitability for our program will be judged. Sometimes strengths in one area can compensate for weaknesses in other areas. We encourage applicants to provide detailed resumés, thoughtfully written essays and any additional information that may assist the admissions committee in making a decision.

Application Procedures

Applications for admission to the MBA program should be made as early as possible, since admission is competitive. The application deadlines are as follows.

To Start Program in September:

- Canadian Applicants (full or part-time) – 31 May
- International Applicants (except China) – 1 April
- Applicants from China – 31 January

To Start Program in January:

- Part-time Canadian or Landed Immigrant
- Applicants Only (part-time) – 15 November

Application materials may be downloaded from www.smu.ca/mba or may be obtained by contacting the MBA Program Office at the following address:

Sobey MBA Program
Saint Mary's University
923 Robie Street
Halifax, Nova Scotia B3H 3C3
Canada
Tel: (902) 420-5002

Fax: (902) 420-5119
E-mail: mba@smu.ca

In order to be considered for admission to the program, the application file must have the following documents:

- a. Completed application form.
- b. An official transcript from each post-secondary institution where courses or programs were taken. These include completed or incomplete degrees or diplomas, upgrading courses and professional certificates. Transcripts must be sent directly by the institution issuing the transcript and not by the applicant.
- c. Essays and short answers, as required in the application package.
- d. Current and detailed resume. Indicate job title, name of employer, duration of job, nature of responsibilities and contribution made to the employer, education, extra-curricular achievements, volunteer experience and skills. A chronological resumé is preferred.
- e. Official GMAT score report sent directly from ETS (Note: 0958 is the appropriate GMAT code for the Sobey MBA Program at Saint Mary's University).
- f. Students whose native language is not English must submit either an official TOEFL score report or a CanTest score report. (Note: 0958 is the appropriate TOEFL code for the Sobey MBA Program at Saint Mary's University).
- g. Two letters of reference using the forms provided in the application package. Referees must also write a letter in their official letterhead and attach a business card, if available. Referees should be current/former professors or current/former supervisors at work who can judge the applicant's suitability for graduate work and leadership potential. Friends and relatives should not be asked to write reference letters. Applicants can submit additional reference letters, if they wish.
- h. A non-refundable application fee of \$70.00.

Applications that do not contain all of the above items will **NOT** be processed. Please note that all documents must be originals or notarized.

Completed application forms and all supporting documents (items "a" to "h" in the above list) must be sent directly to:

Faculty of Graduate Studies and Research
Saint Mary's University
923 Robie Street
Halifax, Nova Scotia B3H 3C3
Canada
Tel: (902) 420-5089
Fax: (902) 496-8772

Once applications are submitted, contact the Sobey MBA Program if you require further information or in order to find out the status of your application.

Financial Aid

In addition to Canada Student and other loans, financial aid is available through University scholarships and assistantships. The number of scholarships is limited and they are granted based on information provided in the

student's application. Students do not apply for entrance scholarships. Applications for assistantships should be made to academic departments in the Faculty of Commerce (see Section 6 for additional information).

Registration

A non-refundable confirmation of acceptance deposit of \$100.00 Canadian is applicable to the MBA program. This deposit will be applied to tuition fees on registration.

Part-Time Basis

The program is available on a part-time basis for students who wish to complete it in part, or whole, while remaining in full-time employment. If possible, at least two courses from each year of the program will be offered in evening classes each semester. Subject to satisfactory enrolment, courses will also be offered during the summer sessions. Students may change to full-time status but are required to fulfill any additional requirements for the full-time program.

Teaching Methodology

The program is neither discipline nor case oriented, but courses embrace combinations of lectures, case discussions, seminars, and assignments according to the requirements of the individual subjects. Since the Faculty has extensive business as well as academic experience, attention is focused on both the practical and the academic aspects of the materials covered during the program.

Non-Saint Mary's University Students

Special or visiting students, i.e., those wishing to study at Saint Mary's on Letters of Permission from their home institution are advised that the 5000 and 6000 level MBA courses are normally open only to Saint Mary's University MBA students. Students in other graduate programs at Saint Mary's or at another post-secondary institution can seek to gain permission from the MBA Director if they wish to enrol in an MBA course. Some courses have restricted enrolment.

Studying at Other Institutions

Saint Mary's University students may use a Letter of Permission to enrol in graduate courses at other universities and receive credit for the courses in the MBA degree. This flexibility enhances the opportunity for students to develop a program that best serves their careers and draws on the course offerings of other universities. Credit for courses completed using this option will only be granted for courses for which a B or better grade is obtained. In completing the MBA degree, for students enrolled in the regular program (see below) a minimum of thirty-six (36) credit hours must be completed at Saint Mary's.

Advanced Standing

Saint Mary's University students with significant academic preparation in functional business subjects may be eligible for exemption from selected foundation year courses. Candidates should contact the MBA Managing Director for details. This is to be done prior to the first registration for MBA courses.

Accelerated MBA

For students with a strong academic record in a four-year undergraduate degree program in business (B.B.A., B.Comm.) Saint Mary's offers an accelerated MBA program. This program consists of 13 courses (39 credit hours). Specific program requirements vary according to the academic preparation of the applicant. Required courses are: MGMT 6689, SMBA 6601, MCP/MRP, any other requirements stipulated by the Associate Dean of Commerce-Masters Programs, depending on the student's previous academic record.

Program Features

The Saint Mary's MBA provides an integrative foundation in management principles as well as the opportunity for specialized study in traditional functional areas of accounting, finance, human resource management, marketing, information systems, or in interdisciplinary subjects such as international business, or entrepreneurship. These elements are sequenced as follows:

First Year Core Courses (30 Credit Hours)

SMBA 5502.1(2)	Managerial Economics and Decision Analysis
MGSC 5506.1(2)	Statistics for Managers
CISY 5521.1(2)	Managing Information and Technology
ACCT 5540.1(2)	Financial Accounting
MKTG 5571.1(2)	Marketing Management
MGMT 5586.1(2)	Leadership and Behavioural Processes
MGSC 5515.1(2)	Operations Management
ACCT 5548.1(2)	Managerial Accounting
FINA 5561.1(2)	Business Finance
MGMT 5585.1(2)	Organizational Behaviour

Non-Credit Requirements

All full-time students are required to complete the following two non-credit courses. For course descriptions, please see Section 5 of this *Academic Calendar*.

SMBA 0010.1(2)	Professional Skills Development
SMBA 0020.1(2)	Integrative Case Competition

As part of SMBA 0010.1(2), students are required to participate in the Executive Speaker Series. National and regional leaders from the public and private enterprises will address students on current management issues. The "s" (satisfactory) grade for these two courses will **not** be counted in the calculations of the cumulative grade point average required for graduation.

Summer: (optional)

Internship (for Canadian and Permanent Residents only),
or
Foreign exchange/study or Elective courses

Second Year Courses (30 Credit Hours)

The objectives of the second year are to foster further integration of functional studies, to develop research skills, and to provide the opportunity for specialized study in a functional or interdisciplinary field of management. The second year consists of thirty (30) credit hours. Required courses are as follows:

SMBA 6601.1(2) Integrative Management Exercise
MGMT 6689.1(2) Strategic Management
ECON 6601.1(2) Economics and Policy in Global Context
SMBA 6698.1(2) Management Consulting Project (MCP)
or
XXXX 6699.0 Management Research Project (MRP)

The six (6) credit hour MRP course can be taken in one of the following subject areas: ACCT, ECON, FINA, MGMT, MKTG, MGSC or CISY. Students have fifteen (15) or eighteen (18) credit hours in 6000 level electives, depending on whether the MCP or MRP is chosen.

Students are permitted to register in an area of concentration or pursue a program of general studies. A concentration consists of a minimum of twelve (12) credit hours of approved courses in one of the areas listed below:

1. Management Consulting
2. Finance
3. Human Resource Management
4. Marketing
5. International Business
6. Information Systems
7. Accounting

Students can also pursue a support area with a minimum of six (6) credit hours of approved courses in one of the areas listed below:

1. Economics
2. Small Business and Entrepreneurship

Information on approved courses for each concentration may be obtained from the MBA office. Students must formally declare their area of concentration for this to be noted on their academic record. It is recommended that students select a topic for their Research or Consulting Project that complements their area of concentration.

Fee Structure for MBA Program

- a. Students shall be admitted to the MBA Program as either a full-time or part-time student according to the number of courses in which the student plans to enrol. Students are expected to consult with the MBA Office prior to making changes to their course loads.
- b. Normal, full-time students have up to 5 years to complete the program (for details on time-for-completion of all programs see the FGSR Section 6 of the Academic Calendar). If you take time off you need to consult with the MBA Office and submit the appropriate leave of absence forms with the Faculty of Graduate Studies and Research.
- c. Collection of fees from MBA full-time and part-time students will be on a per-course basis and shall include Tuition, International Differential Fees (where appropriate), the MBA Program Fees, the MBA Student Society Fees, and all other mandatory University fees as stipulated by the Board of Governors each year.

d. In the event an MBA student is not registered in any course but is completing a major research project (MRP) in a given semester, the student shall register in the MRP Continuation category and pay the required continuation fees.

e. Graduate student financial awards for full-time MBA students normally shall be awarded at the beginning of the fall semester. The payments shall be given in equal amounts over the fall and winter semester or as determined by the MBA Program in consultation with the Dean, Faculty of Graduate Studies and Research.

Joint MBA–CMA Program

Acting Associate Dean Gordon Fullerton
Managing Director Leah Ray

Saint Mary's University has entered into an agreement with CMA Nova Scotia that will permit students to earn the Certified Management Accountant designation (CMA) and the Master of Business Administration degree concurrently. This program is unique in Canada and designed for part-time students. It will normally require 36 months to complete. Interested applicants must visit the CMA website for in-depth information about the MBA-CMA application procedures and to obtain the application package at www.cmans.com.

MBA-CMA Qualifications for Admission

1. **Degree:** An undergraduate degree from a recognized university in commerce, business or management. A minimum average of "B" is expected. Official transcripts must be sent from each post-secondary institution attended by the applicant along with the application.
2. **CMA Entrance Exam:** Applicants must pass the CMA Entrance Exam in order to qualify for admission to this joint program.
3. **Employment:** Applicants must be employed full-time or demonstrate a plan for full-time employment concurrent with the MBA-CMA program in appropriate, progressive management accounting roles.

MBA-CMA Application Procedures

1. Visit www.cmans.com for a complete application package and detailed information.
2. Submit all application materials to CMA Nova Scotia.
3. The complete files for those who pass the CMA Entrance Exam will be forwarded to the MBA Program Office for processing.
4. Admission to the MBA-CMA Program will be confirmed in writing through the Office of The Faculty of Graduate Studies and Research at Saint Mary's University.
5. Questions concerning application procedures should be directed to the CMA Nova Scotia Office located on Brunswick Street in Halifax. (902) 422-5826, ext. 23.

MBA-CMA Program Requirements

1. Students must satisfy all requirements of both CMA Nova Scotia and Saint Mary's University in order to qualify for graduation and for the designation.

2. Candidates will be required to complete forty-two (42) credit hours (as listed below) to earn the MBA degree.

3. Thirty-six (36) of the forty-two (42) credit hours must be taken at Saint Mary's University. A minimum grade point average of 3.0 is required for graduation from the MBA degree.

4. To meet the requirements for the CMA designation, candidates must obtain a minimum of 60% in the nationally marked CMA case study, "Report to the Board," the capstone of the CMA program. Candidates must satisfy CMA Nova Scotia's practical experience requirements.

Required courses for the MBA-CMA Program:

1. ACCT 6626.1(.2) Management Information Systems: Strategy and Practice
2. ACCT 6650.1(.2) Integrative Managerial Accounting I
3. ACCT 6652.1(.2) Integrative Managerial Accounting II
4. MGMT 6682.1(.2) Performance Management
5. MGMT 6689.1(.2) Strategic Management
6. MKTG 6679.1(.2) Strategic Marketing
7. MGSC 6615.1(.2) Strategic Design and Improvement of Operations
8. FINA 6663.1(.2) Financial Management
9. SMBA 6698.1(.2) CMA Board Report*

*Students must complete courses 1-8 before attempting the CMA Board Report

10. SMBA 6601.1(.2) Integrative Management Exercise
11. ACCT 6690.1(.2) Seminar in Accounting
- 12.-14. nine (9) elective credit hours at the 6000 level.

All applicants to the joint MBA-CMA Program should correspond with the CMA Nova Scotia Office. Once admitted to the program, routine questions may be directed to the MBA Program Office at Saint Mary's University.

Fee Structure for MBA-CMA

1. Students shall be admitted to the MBA-CMA Program as part-time students according to the parameters of the program through consultation with CMA Nova Scotia.

2. Students have 6 years to complete the program. If you take time off, you need to consult with the MBA Office, CMA Nova Scotia and submit the appropriate leave of absence form with the Faculty of Graduate Studies and Research.

3. MBA-CMA student fees shall be on a program basis and will include Tuition, the MBA Program Fees, and all other mandatory university fees as stipulated by the Board of Governors each year. Tuition increases shall be determined annually and applied to each new group of students on a program basis.

Master of Finance (MFIN)

Coordinator Francis Boabang, Finance Information Systems and Management Science

Objectives

The objective of this program is to prepare graduates for professional careers in finance as financial analysts (CFA) or portfolio managers. This is achieved through a combination of classroom instruction, interaction with practitioners in Halifax and Toronto, and hands on use of financial data and proprietary financial management software. Saint Mary's is the only institution with FRI software used by banks, insurance companies and government banks worldwide to manage their portfolios.

Admission Requirements

Admission requirements for the Master of Finance are:

1. 4 year university degree in mathematics, engineering, physics, economics or other mathematical discipline.
 2. B average (75%) or higher in undergraduate studies.
 3. TOEFL score of at least 550.
 4. 2 letters of reference.
 5. Successful interview with Saint Mary's University representative.
- Enrolment is limited. Preference will be given to candidates who exceed the above minimums and those who have relevant work experience.

Applications must be made through:

Can-Zhong Consulting Services Ltd.
2362 Oliver Crescent
Vancouver, BC
Canada, V6L 1S5

or one of Can-Zhong's authorized partners. Applications may **not** be made directly to Saint Mary's University.

Program Requirements

The program begins with an intensive eight week session of English language instruction and an introduction to Canadian culture. This is followed by a semester of foundation courses and two semesters of rigorous finance study.

Months 1 and 2

English as a Second Language
Introduction to Canadian Culture and Academic System

1st Semester – Months 3 to 6

- MFIN 5500.1(.2) Micro Economics of the Enterprise and Business Strategy
- MFIN 5501.1(.2) Macro Economics of the Enterprise Environment and Public Policy
- MFIN 5540.1(.2) Financial Accounting Reporting and Analysis
- MFIN 5603.1(.2) Statistical Applications in Management Science
- MFIN 6603.1(.2) Applied Statistics and Data Analysis
- MFIN 56416641.1(.2) Financial Statement Analysis

MFIN 56636663.1(.2)	Financial Management
2nd Semester – Months 7 to 10	
MFIN 56096609.1(.2)	Econometrics and Business Forecasting
MFIN 56646664.1(.2)	Corporate Finance
MFIN 56676667.1(.2)	Futures and Options
MFIN 56686668.1(.2)	Investments and Portfolio Management
MFIN 56706670.1(.2)	Fixed Income Securities
MFIN 56716671.1(.2)	Financial Markets and Institutions

3rd Semester – Months 11 to 14

MFIN 6669.1(.2)	Risk Management
MFIN 6676.1(.2)	International Business Finance Financing and Banking
MFIN 6690.1(.2)	Special Topics in Finance and Research Methods Methodology
Finance Workshop: CFA Exam Preparation	
MFIN 6692.0	Management Research Project

Fees

Tuition fees cover all instructional costs, but do not include books, living expenses and health insurance.

**Master of Management–
Co-operatives and Credit Unions
(MMCC)**

Coordinator John Chamard, Management

The MMCCU program is designed to provide graduates with the management learning and skills needed to run a successful cooperative business. Throughout the curriculum, each management issue and function is explored within the context of the unique cooperative business environment created by the values and principles of cooperation. The program is based on the premise that cooperation among cooperatives is not only “nice” but is essential to ensuring that globalization does not leave cooperative businesses on the periphery of the economy.

Candidates will examine how cooperative values and financial success are not mutually exclusive goals but complementary and interdependent elements of cooperative business success.

“The cooperative and credit union values and principles are not a sea anchor dragging behind a ship and impeding progress, but rather are the mainsail that should provide its power and ensure its business success.”

An international program, the MMCCU draws its candidates, faculty, and research from around the globe. Students may study with managers from different types of credit unions and cooperatives located in different countries (or different continents) linked by information technology and face-to-face learning encounters.

Admission Requirements

To be admitted to the MMCCU Program, applicants are required to:

Normally have completed an undergraduate degree or have an equivalent combination of training and experience;
Be currently employed by a cooperative or credit union preferably in a supervisory or management position (with rare exceptions);
Submit a letter from their employer indicating their willingness to have the organization used as a “living lab” while the student is in the program;
Have English as a first language or have demonstrated competence in English.

To handle the demands of computer-based distance education, students have access to a reasonably up-to-date computer with a fast link to the World Wide Web.

Application Procedures

To apply to the MMCCU, applicants should:
Complete the appropriate application form and submit it and the application fee to the Faculty of Graduate Studies (available at: <http://fgr.smu.ca/>);
Submit an up-to-date resume;
Submit a two-page description of how what the student would learn in the MMCCU program would benefit them and their organization;
Have their most recent university transcript sent directly to the Faculty of Graduate Studies and Research;

The normal deadline for receipt of a completed application for an “August Orientation, September courses start date” is June 30.

Program Requirements

Given that the program is web-based, using WebCT software, candidates and faculty meet virtually rather than in a classroom setting, except that during the second year when the class visits either Spain or Italy for about a week to study integrated cooperative development in action. In addition, candidates gather together in Halifax for a compulsory one week Orientation before beginning their program.

Courses

The program consists of 12 three (3) credit-hour courses in addition to a six (6) credit-hour thesis course. Courses are designed to be taken in sequence by the full entering cohort. Thus it is expected that candidates will take almost three years to complete their course work and then begin their thesis. The specific course requirements for the degree are:

First Year Courses

- MMCC 5500.1 (.2): Philosophical Origins and Historical Evolution of Cooperative Governance and Business Practice.
- MMCC 5510.1 (.2): The Emerging Global Economy and Society from a Cooperative Perspective I.
- MMCC 55105210.1 (.2): Comparative Cooperative Practice I: Variety and Range of Cooperative Business.
- MMCC 5530.1 (.2): Cooperative Financial Analysis and Management I.

Second Year Courses

- MMCC 5540.1 (.2): The Emerging Global Economy and Society from a Cooperative Perspective II.
- MMCC 5550.1 (.2): Field Research: Study Visits to Exemplars of Excellent Cooperative Business Practice.
- MMCC 56006600.1 (.2): Comparative Cooperative Practice II: Cooperative Innovations and Best Practice.
- MMCC 6610.1 (.2): Technology, Communication and Cooperation.

Third Year Courses

- MMCC 6620.1 (.2): Marketing the Cooperative Advantage: Cooperative Education, Member Relations and Marketing.
- MMCC 6630.1 (.2): Cooperative Financial Analysis and Management II.
- MMCC 6640.1 (.2): The Cooperative Management Approach I: Governance, Planning and Strategic Analysis.
- MMCC 6650.1 (.2): The Cooperative Management Approach II: Leadership, Personnel and Management Style.
- MMCC 66706660.1 (.2) Thesis: Cooperative Management Audit.

Doctor of Philosophy in Business Administration (Management)

Director A. J. Mills, Management

The Ph.D. program focuses on the area of management, which broadly encompasses the traditional areas of Organizational Behaviour, Organizational Development, Organizational Theory, Human Resources, Industrial/Labour Relations, Strategic Management and Entrepreneurship.

The program is designed to be completed in 48 months. Coursework and comprehensive exams must be completed within 28 months of enrolment. The length of time spent on the dissertation phase will vary according to the nature of the research involved, but should not exceed 48 months following completion of the comprehensive exams

Admissions

Decisions regarding admission to the doctoral program will be made on the basis of the applicant's academic qualifications and achievements, fit with the program's areas of specialization and the availability of an appropriate supervisor. To that end, all of the following will be taken into account:

- *Qualifications:* Students entering the doctoral program must have a Masters degree from a recognized university. Normal minimum requirements for admission are a grade point average of 3.6 on a 4.0 scale (high B+ to A-).
- *Business studies:* At least a minimum breadth in business studies is expected. Ideally, applicants should have an undergraduate and/or Masters degree, which includes a substantial business studies element (e.g., a Bachelor of Commerce, Masters of Business Administration). Students without previous degrees in management education may be admitted as "qualifying" students but could be required to undertake selected management in addition to the normal

requirements of the Ph.D. program.

- *GMAT/GRE:* Candidates are required to provide scores from the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE). The minimum requirement is the equivalent of a GMAT score above 600.
- *Proposal:* At the time of application, prospective students should submit a four-page outline of his or her proposed area of research. The proposal is designed to help the Admission Committee to determine the research "fit", as well as the research potential, of each applicant.
- *Letters of Recommendation:* All applicants are required to submit three letters of recommendation from persons capable of assessing the candidate's academic ability and research potential.
- *Career Objectives:* A statement of career objectives is required.
- *University Transcripts:* Official transcripts from all universities attended (sent directly by the granting institution) are required at the time of application.
- *English:* Applicants who were not educated in English are required to submit official scores on the CanTest, Test of English as a Foreign Language (TOEFL), or recognized equivalent test of written and oral English language proficiency. Normal minimum requirements are TOEFL iBT: A minimum score of 90 overall with at least 22 in Writing; 21 in Reading, 27 in Speaking, 20 in Listening. The iBT overall score is at least 237 or 580 on the previous TOEFL scales.

These are the normal minimum requirements, but each case will be evaluated on its own merits. However, applicants will not be evaluated for admittance where any of the required elements have not been submitted at the time when the application is being considered.

The deadline for applications is February 1st for admission on May 1st of the same year. Successful applicants will normally be notified by March 1st.

Program Structure

The program comprises three inter-related elements: coursework, comprehensive examinations and dissertation.

Courses

The courses are divided into the foundation courses and the functional core.

Foundation Courses

MGMT 7701	Management Thought and Management Environment
MGMT 7702	The Nature of Management Research
MGMT 7703	Qualitative Research Methods
MGMT 7704	Quantitative Research Methods

Functional Core

MGMT 7710	Doctoral Seminar in Human Resource Management
MGMT 7720	Doctoral Seminar in Organizational Theory and Design

Any 2 of the following:

MGMT 7730	Directed Readings in Management I
-----------	-----------------------------------

MGMT 7740	Directed Readings in Management II
MGMT 7705	Multivariate Statistics for Management Research

The complete set of courses comprising the Ph.D. program (excluding the comprehensive exams and the dissertation) is offered in the first four semesters of enrolment. That is, students complete 3 courses in the first summer, one reading course in each of the fall and winter semesters and 3 courses in the second summer of the program.

The standard pattern of course offerings is:

1 st semester	MGMT 7701, MGMT 7702, MGMT 7710,
2 nd semester	MGMT 7730 or MGMT 7705,
3 rd semester	MGMT 7740 or MGMT 7705
4 th semester	MGMT 7703, MGMT 7704, MGMT 7720

The scheduling of the two directed reading courses may vary with individual students.

Comprehensive Examinations

On completion of all coursework requirements, and no later than 28 months after admittance to the program, each student must complete a set of comprehensive examinations. Both examinations must be completed in the same semester. Students may undertake the comprehensive examinations in any semester following the completion of all Foundation and Functional courses.

These comprehensive examinations will take the form of a set of written examinations, set by the Comprehensive Examining Committee. The Examining Committee reserves the right to require an oral examination subsequent to the written portion of the exam. Normally, students will be permitted two attempts at the comprehensives. Successful completion of the comprehensives will move the student to the status of "Ph.D. Candidate".

The purpose of the two comprehensive examinations is to verify that the student possesses both breadth and depth of knowledge in the areas defined by the Functional and Foundation courses described above.

Dissertation

The dissertation requirement is for the successful defence of an original doctoral thesis worthy of publication in reputable

academic journals, defended orally before authorities in the discipline, appointed by the Faculty of Graduate Studies and Research. The oral defence will be public. The thesis defence must take place within 48 months of successful completion of the comprehensive examinations.

Residency and Method of Delivery

Students are required to fulfill the equivalent of two semesters of full-time residency. Normally, these semesters will be in the spring/summer period and are composed of intensive classes that run from the beginning of May to the end of June. The months of July and August are devoted to research projects, including the writing of major papers.

The scheduling of required classes during the period of May-June is designed to make the program more accessible to non-traditional doctoral students.

Advisor/Supervisor

In admitting students to the program, the Ph.D. Program Council will take into account the availability of potential dissertation supervisors. Applicants to the program are encouraged to seek out potential advisors/supervisors prior to admittance to the program. On entry to the Ph.D. program, students will be assigned an advisor who will assist in the development of the student's dissertation topic. The advisor will be appointed on the basis of his or her expertise in relation to the student's dissertation at the time of entry, and will normally be expected to become the dissertation supervisor. Where a successful applicant has already identified an appropriate supervisor, every effort will be made to ensure that he or she is appointed as the advisor/supervisor.

Note: The Ph.D. Advisor/Supervisor should normally be a tenured faculty member at Saint Mary's University or other post-secondary institution in Atlantic Canada. In the latter case, such faculty must be recommended by the Faculty of Graduate Studies and Research as Adjunct Professors at Saint Mary's University.

Fellowships

A limited number of fellowships are available to students who are not in full-time paid employment. Request for a fellowship should be made at the time of application.

Website

Further information can be found on our website: <http://www.smu.ca/academic/sobey/programs/phd-management/welcome.html> .

Graduate Programs: Science

The Faculty of Science offers five graduate programs in the areas of Astronomy, Applied Psychology, and Applied Science.

Graduate Programs in Astronomy

Chairperson, Professor	M. Butler
Graduate Coordinator,	
Assistant Professor	I. Short
Director ICA, Professor	R. Deupree
Observatory Director,	
Professor	G. Welch
Undergraduate Coordinator,	
Professors	D. Clarke
Professors	D. Guenther (sabbatical, 2005-2006),
	G. Mitchell,
	D. Turner
Associate Professors	J. Hahn,
	A. Sarty
Assistant Professor	R. Austin
Adjunct Professors	P. Bennett,
	P. Noerdinger
Professor Emeritus	W. Lonc

Introduction

Saint Mary's has offered degree programs leading to the M.Sc. (Astronomy) since 1974, and to the Ph.D. (Astronomy) since 2003. It is the major centre for astronomical and astrophysical research in Atlantic Canada. For a more complete history of Astronomy (and Physics) at Saint Mary's University, please see the Astronomy and Physics entry under Section 5.

The Department of Astronomy and Physics (<http://www.ap.smu.ca>) is characterized by three research themes. Mitchell, Turner and Welch are observational astronomers who study such topics as variable stars, the interstellar medium, and the properties of galaxies. Clarke, Deupree, Guenther, Hahn and Short are members of the Institute for Computational Astrophysics (ICA, <http://www.ica.smu.ca>), where research interests span stellar interiors, pulsation, atmospheres, planetary dynamics and astrophysical MHD. The ICA hosts several PDFs and visitors who significantly broaden the research activity in the Department. Austin, Butler and Sarty are subatomic physicists who study nuclei. Prospective students wishing to pursue studies in subatomic physics at Saint Mary's should contact the graduate coordinator.

Facilities and capabilities

The University has operated the Burke-Gaffney Observatory since 1972. It contains a semi-automated, 40-cm, reflecting telescope equipped for photometric, spectroscopic and visual observations, and is used for public observing, undergraduate research projects, and some faculty research. In addition, Saint Mary's faculty have access to several

major international observatories in which Canada has a share.

The University is a founding member of ACEnet (<http://www.ace-net.ca/>), a CFI-funded network of supercomputing and high-power visualization facilities shared by four Atlantic Canada universities. The Department also operates its own small SMP and Beowulf cluster, and is linked directly to Canada's highest-speed Internet network. Astronomy and Physics faculty have an established record of research funding from federal sources (e.g. NSERC, CFI) for the support of graduate students and research infrastructure. The Patrick Power Library has access to all major journals in astronomy and physics, conference proceedings and related texts.

Application Procedure

Applications to our programs can be made at any time of the year. Highest priority for fall admission will be given to applications received by March 15th of the preceding winter. Applications may be obtained at http://fgsr.smu.ca/grad_pro_app.html, or by contacting the Faculty of Graduate Studies and Research (FGSR) directly. Prospective students who are in doubt about their qualifications should contact the graduate coordinator: graduate.coordinator@ap.smu.ca.

Students may apply for full-time or part-time status. Full-time status is conferred in writing by the Department Chair to the FGSR at the beginning of each academic year upon student who spend a minimum of 40 hours per week on their studies (see the definition of full-time student in the overview of the FGSR). Under special circumstances and subject to department approval, new or existing students may enrol in the program on a part-time basis. Admission and degree requirements for part-time students are the same as for full-time students, but part-time students are not guaranteed full financial support.

Financial Support

Full-time M.Sc. (thesis option) and Ph.D. students receive an annual stipend sufficient to meet the cost of living and tuition for one person in Halifax, provided they continue to meet the program requirements. Sources of funding include fellowships from federally funded faculty grants, University Graduate Fellowships, teaching assistantships, and named graduate scholarships. The latter include the Father Burke-Gaffney Memorial Scholarship (established by Marcia Watts deBlois in memory of her husband, an NRC photographer and avid amateur astronomer), and the Reuben and Helen Hornstein Bursary (established in 1982 by Reuben Hornstein, a former meteorologist in Halifax and an honorary degree recipient of Saint Mary's). Students are encouraged to apply for external fellowships and awards (e.g., NSERC, ACEnet, etc.) and those who are successful can expect financial support significantly higher than the normal minimum level.

Master of Science (Astronomy)

Overview

The Master Program offers both a thesis and a no-thesis option, and is normally of two years duration. All students with a B.Sc. or equivalent, whether they intend to pursue a Ph.D. at Saint Mary's or not, enter into the Astronomy graduate program at the M.Sc. level. Subject to departmental approval and normally after two years of study, students may choose to transfer to the Ph.D. program without formally completing their M.Sc.

Admission requirements

A B.Sc. (HONS) or equivalent in Astronomy, Physics or a related field, with a Grade Point Average (GPA) of 3.00 (B) or better is normally required for admission into the program.

Degree requirements

Students take thirty-six (36) credit hours, eighteen (18) credit hours per year for full-time students. For credit towards the degree, a student must attain a course grade of B- (2.67 GP) or better. A student must attain a GPA of at least 3.00 (B) in the first eighteen (18) hours of course work to continue into the second year of study. A student's GPA over all courses satisfying degree requirements must be at least 3.00 (B) to be eligible for graduation.

Thesis Option

Students take ASTR 5695 (Graduate Seminar I, three (3) credit hours), ASTR 6696 (Graduate Seminar II, three (3) credit hours), ASTR 5690, ASTR 6698 (Thesis, six (6) credit hours), at least four (twelve (12) credit hours) of the six "core courses" listed below, and two other courses (six (6) credit hours) drawn from ASTR courses numbered between 4430 and 6689, or graduate level courses in related disciplines from Saint Mary's or elsewhere, subject to University regulations on transfer credits for off-campus courses for credit and approval of the student's supervisor.

The thesis is prepared under the supervision of a faculty supervisor and consists of original research performed by the student on a topic chosen and defined by the student and faculty supervisor. When complete, students defend their thesis in front of a Thesis Defence Committee (see section below on supervision) normally scheduled near the end of the second year of study. The M.Sc. defence normally consists of a brief presentation by the student to the academic community, followed by a private oral examination with the Committee.

No-Thesis Option

Students pursuing this option may not be eligible for full financial support.

Students take ASTR 5695 and 6696 (Graduate Seminar I and II, six (6) credit hours), all six core courses (eighteen

(18) credit hours) and four half courses (twelve (12) credit hours) drawn from ASTR courses numbered between 4430 and 6689 as listed below, or graduate level courses in related disciplines from Saint Mary's or elsewhere, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor. With the approval of the student's advisor, a student may substitute one or both of ASTR 5690 and 6690 (Research Methods I and II, three (3) or six (6) credit hours) for one or two of the non-core courses.

Supervision

Students pursuing the thesis option select a faculty supervisor during the first semester in the program. In consultation with the graduate coordinator, the faculty supervisor and the student select the Thesis Defence Committee at the beginning of the third semester in the program. The committee normally consists of the faculty supervisor, no fewer than two other faculty members from the Department, and if deemed appropriate by the supervisor, one ready external to the Department who may, though need not, be present for the defence.

Doctor of Philosophy (Astronomy)

Overview

The Ph.D. represents the highest level of academic pursuit and its holders are considered authorities on significant areas of human thought, capable not only of propagating knowledge accurately and definitively, but of generating knowledge as well. Over the course of their studies, doctoral candidates make the transition from students dependent upon their supervisors to independent researchers ready to establish their own research programs in the astrophysical community.

Funding is guaranteed for up to four years in the program, providing satisfactory progress is being made.

Admission Requirements

An M.Sc., or equivalent in Astronomy, Physics, or related field is normally required for admission into the program. Students completing the M.Sc. program at Saint Mary's who wish to continue in the Ph.D. program may do so with or without receiving the M.Sc. degree. Those who wish to obtain the M.Sc. degree must formally apply to FGSR for admission to the Ph.D. program during the second year of the program. Students who elect not to receive the M.Sc. degree may, with departmental approval, transfer to the Ph.D. program at the end of the second year of the graduate program without applying to FGSR for admission. Students must notify the graduate coordinator of that intention in writing six months prior to the intended transfer.

Degree Requirements

Students have two attempts to pass a six-hour written comprehensive examination based on the six core courses listed below, normally near the end of their first year.

Students who fail to pass both attempts while in the Ph.D. program are required to withdraw. Students who complete the M.Sc. program at Saint Mary's before commencing the Ph.D. program are encouraged to take the comprehensive exam during the second year of their M.Sc. program.

Students must submit a written dissertation proposal (normally not to exceed ten pages) and present it to their Supervisory Committee (see section below on supervision) normally during the first year in the program. Students continuing from the M.Sc. program at Saint Mary's are encouraged to prepare their proposal by the end of the second year of the M.Sc. program. Committee approval of the proposal is required before a student is permitted to pursue their dissertation research. Students should meet with the Supervisory Committee as frequently as the committee deems necessary throughout the duration of the program, and no less frequently than annually, for the purposes of assessing progress. The Committee, at its discretion, may specify what the student should present at such meetings.

Students take a total of thirty (30) credit hours of courses, including all six core courses listed below and four courses drawn from ASTR courses numbered between 4430 and 6689, or graduate level courses in astronomy or related disciplines from Saint Mary's or elsewhere, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor. All such courses taken by students toward the M.Sc. degree at Saint Mary's, count towards Ph.D. course requirements. Students who have completed M.Sc. programs elsewhere, may transfer courses taken at their former institution, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor. Students wishing to take and receive credit for more than thirty (30) credit hours of graduate courses must obtain prior approval from their supervisors.

Students enrol in AST 8699 the first year after approval of their dissertation proposal and in FGSR 9000 every year thereafter. Students also participate in the Journal Club (taken by M.Sc. students as ASTR 5695 and 6696) every year they are enrolled in the program. Journal Club is normally led by senior Ph.D. students.

For credit towards the degree, a student must attain a course grade of B- (2.67 GP) or better. A student's GPA over all courses satisfying degree requirements must be at least 3.00 (B) to be eligible for graduation.

The preparation of a dissertation is the most important component of the Ph.D. program. More than anything else, the academic community assesses graduating students by the quality of their dissertations and the refereed journal articles they spawn. Students prepare their dissertation under the supervision of a faculty supervisor, although the majority of the work is expected to be attributable directly to the student. When complete, students defend their dissertation before their Dissertation Defence Committee (see section on supervision below), normally near the end of the student's program of study.

Supervision

The student selects a faculty supervisor during the first semester in the program. In consultation with the graduate coordinator, the student and faculty supervisor select the Supervisory Committee at the beginning of the second semester of the program. The committee normally consists of the faculty supervisor and no fewer than two other faculty members from the Department.

Students shall submit a draft of their dissertations to the Dissertation Proposal Committee at least three months before the anticipated date of defence. The committee is selected by the supervisor in consultation with the student and graduate coordinator, and consists of the supervisor, at least two other members of the Department and one member external to the University who shall be present for the defence examination. See the Section on FGSR procedures for further details.

Voluntary Withdrawal

A student who wishes to withdraw from the Ph.D. program, who has not completed an M.Sc. program in Astronomy, may apply to the Department to use their progress to date towards the M.Sc. degree. If there are insufficient credits for the M.Sc. degree, the student may elect to transfer to the M.Sc. program to complete those requirements, provided notification is provided in writing to the graduate coordinator and approval is granted by the Department and the FGSR. Financial support for students who transfer from the Ph.D. program to the M.Sc. program is not guaranteed.

Graduate Courses

Graduate course offerings consist of formal lecture courses, six of which are designated as "core courses" (and indicated below with asterisks), research courses including Master's Thesis and Ph.D. Dissertation, and seminars such as "Journal Club".

- *ASTR 5602.1(.2) Galactic Astronomy
- *ASTR 5604.1(.2) The Interstellar Medium
- *ASTR 5609.1(.2) Galaxies beyond the Milky Way
- *ASTR 5614.1(.2) Stellar Structure and Evolution
- *ASTR 5622.1(.2) Astrophysical Dynamics
- ASTR 5635.1(.2) Computational Methods in Astrophysics
- *ASTR 5638.1(.2) Stellar Atmospheres and Spectra
- ASTR 5690.1(.2) Research Methods I
- ASTR 5695.1(.2) Graduate Seminar I
- ASTR 6607.1(.2) Binary and Variable Stars
- ASTR 6608.1(.2) Selected Topics in Astronomy and Astrophysics
- ASTR 6611.1(.2) Directed Readings in Current Literature
- ASTR 6615.1(.2) Advanced Topics in Stellar Astrophysics
- ASTR 6616.1(.2) Astronomical Instruments and Techniques
- ASTR 6619.1(.2) Cosmology
- ASTR 6620.1(.2) Clusters of Galaxies
- ASTR 6637.1(.2) Astrophysical Hydrodynamics
- ASTR 6690.1(.2) Research Methods II
- ASTR 6696.1(.2) Graduate Seminar II
- ASTR 6698.0 Masters Thesis
- ASTR 8699.0 Doctoral Dissertation

Graduate Programs in Psychology

Chairperson, Professor	V. Catano
Graduate Coordinator,	
Associate Professor	A. Day
Professors	J. Darley, K. Hill, K. Kelloway, R. Konopasky
Associate Professors	J. Cameron, P. Street, S. Smith, V. Stinson, B. Vulcano
Assistant Professors	N. Conrad, M. Fleming, L. Francis, M. Fisher, D. Gillin, C. Holmvall, M. Patry
Adjunct Professors	L. Methot, S. Newsome
Professors Emeriti	D. Bruce, J. Chadwick-Jones

Industrial/Organizational Psychology

The program in Industrial/Organizational Psychology prepares students to examine and understand the behaviour of individuals and groups in organized environments. Since Industrial/Organizational psychologists may perform a variety of jobs in industry, business, and the public service, students in the program are expected to have a solid understanding of quantitative and research methods, and to acquire skills that will help them in the training and selection of personnel, the design of jobs, workplaces and habitats, and the development of social skills and work-team structures. Students in this program may also be permitted access to courses and supervisors in the MBA program at Saint Mary's.

Masters of Science in Applied Psychology

Overview

The Department of Psychology offers a Master of Science in Applied Psychology in Industrial/Organizational Psychology. Students are admitted with either full-time or part-time status. Full-time status students will need at least two years to complete all degree requirements and must finish these requirements within three years. Part-time status students must complete all requirements within five years. Normally, part-time students are concurrently employed in an occupation related to Applied Psychology. Students completing Master of Science degree requirements in this area are eligible to apply for registration as a psychologist in Nova Scotia and may pursue careers in public organizations, independent practice, or consulting. They may also continue their graduate education in a Ph.D. program. Further information can be obtained from the Graduate Program Coordinator.

Admission Requirements

Admission to the program requires an honours degree in Psychology or its equivalent [the equivalent of sixty (60) credit hours in Psychology including an independent research project]. Applicants must submit a completed application form, official transcripts, 3 letters of reference, and the Graduate Record Exam scores (verbal, quantitative, analytical, and psychology) to the Faculty of Graduate Studies and Research by 1 February. Consideration will be given to relevant work, research, and volunteer experience.

The admission materials are available from the Faculty of Graduate Studies & Research (or on-line at <http://fgsr.smu.ca>). Any application for change in status (i.e., full-time or part-time) must be made in writing directly to the Graduate Program Coordinator. Change in status is not guaranteed and must be approved by the Department.

Program Requirements

Students are required to take the equivalent of twenty-four (24) credit hours, in addition to completing a supervised 500-hour practicum (PSYC 6690.0) and preparing a thesis (PSYC 6695.0). The following first year courses are required for all students: PSYC 6601.0 (Advanced Psychological Statistics) and PSYC 6603.1(.2) (Advanced Assessment), PSYC 6605.1(.2) (Personnel Psychology) and PSYC 6625.1(.2) (Organizational Psychology).

Students must achieve an average of at least B (3.00). A review of students' progress will be undertaken by the Department at the end of the first year of study [eighteen (18) credit hours]. Notwithstanding students' grade point averages, the Department reserves the right to recommend to the Dean that students be required to withdraw from the program.

Each student must submit a thesis on a topic chosen in consultation with a Thesis Committee, which shall consist of the student's advisor, one other member of the Department, and a third person (either internal or external to the Department). All external members must be approved by the Department, on the advice of the supervisor. The Thesis Committee is normally formed towards the end of the first year of study for a full-time student or after completion of three credits by a part-time student. Each thesis must be orally defended in front of a Thesis Examining Committee, which consists of the Thesis Advisory Committee, plus an external examiner (who has not been involved with the thesis).

Financial Aid

Students are eligible to apply for several types of University awards and graduate assistantships. Application forms for these awards can be obtained from the Director of Financial Aid at Saint Mary's University.

The competition for graduate scholarships is adjudicated by the Psychology Department on the basis of GPA GRE scores, research experience, and letters of reference. Graduate teaching assistantships are also provided by the Department as remuneration for assisting professors in course and lab instruction.

The following constitute the offerings in this graduate program. Detailed descriptions are found in Section 5 of this *Academic Calendar*.

- 6601.0 Advanced Psychological Statistics and Research Design
- 6603.1(.2) Advanced Assessment
- 6605.1(.2) Personnel Psychology
- 6610.1(.2) Applied Multivariate Analysis
- 6615.1 (.2) Training & Development

6620.1(.2) Topics in Engineering Psychology
 6625.1(.2) Organizational Psychology
 6630.1(.2) Attitude and Persuasion
 6640.1(.2) Field Research Methods
 6645.1 (.2) Ethics and Professional Practice
 6670.1(.2) Special Seminar: Topics
 6690.0 Practicum and Directed Readings
 6695.0 Thesis

**Doctor of Philosophy in Industrial/
 Organizational (I/O) Psychology**

Overview

Students are admitted on either a full-time or part-time basis. The program is based on a “scientist-practitioner model” and comprises four elements: coursework, independent research, comprehensive examinations, and the dissertation. The program builds on the existing M.Sc. program in Applied Psychology and, normally, students should complete the program within three years (after a Masters degree). Students who do not have to address any deficiencies in their masters’ level training are expected to complete all of their required course work and comprehensive examinations within two calendar years of their acceptance into the program.

This program follows the guidelines for doctoral programs established by the Society for Industrial and Organizational Psychology. Further information about this program can be obtained from the Graduate Program Coordinator.

Admission Requirements

Admission to the program requires a masters’ degree in I/O Psychology or related area (minimum average of B+). Applicants must submit a completed application form (including letter and personal statement), official transcripts, three letters of reference, and the Graduate Record Exam (GRE) scores (verbal, quantitative, analytical writing, and psychology) to the Faculty of Graduate Studies and Research by February 1st. Consideration will be given to relevant work, research experience, and volunteer experience. The admission materials are available from the Faculty of Graduate Studies & Research (or on-line at <http://fgsr.smu.ca/GraduateStudies/Admissions/Science.aspx>).

Program Requirements

Students will complete twelve (12) credit hours of coursework, a first- and second-year research project (three (3) credit hours each), and a dissertation. Students who have not had internship exposure (or equivalent experience) as part of their master’s training will be required to complete Psych 6690.0 (i.e., a 500-hour internship at the end of their first year in the program); other doctoral students may take Psych 6690.0 on an elective basis to enhance their practitioner skills. Students may take one elective [three (3) credit hours] from the list of M.Sc. courses or from courses in the Ph.D. Management Program.

After the completion of all required course work, the student will write a set of two comprehensive examinations. The intent of the Comprehensive Examinations is to ensure that

the student has: (a) broad knowledge of the content areas comprising I/O Psychology, and (b) competency in the scientist-practitioner model applied in organizational settings. Both examinations must be completed in the same semester. Students may undertake the comprehensive examinations in any semester following the completion of all required courses. The Comprehensive Examinations must be completed no later than 28 months after commencement of the program.

After successful completion of the comprehensive examinations, students will complete a dissertation. They will form a Ph.D. Dissertation Supervisory Committee comprising of:

- (a) at least four members who hold a Ph.D. (and who normally, although not necessarily, hold faculty positions at a university);
- (b) one of whom must be external to Saint Mary’s University;
- (c) two of whom are faculty members designated as core faculty within the I/O program (including the supervisor).

The candidate must successfully defend the dissertation (following the procedures established by the Faculty of Graduate Studies and Research) no later than 48 months (and normally 24 months) after successfully completing the comprehensive examinations. The dissertation will be defended before an examining panel comprising of:

- (a) the supervisory committee, including the supervisor; and
- (b) an external examiner, who is a recognized authority in the area of research and who is at “arm’s length” from the student and all members of the supervisory committee

Financial Aid

All eligible students will be considered for the Faculty of Graduate Studies and Research Student Awards & Fellowships. The competition for graduate scholarships is adjudicated by the Psychology Department on the basis of GPA, GRE scores, research ability, and letters of reference. Students are also eligible for Teaching and Research Assistant positions. They may also have the opportunity to teach as part of the program.

Courses

7500.1(.2)	Doctoral Seminar in Organizational Psychology
7600.1(.2)	Doctoral Seminar in Personnel Psychology
7800.1(.2)	The Development and Context of I/O Psychology
7900.1(.2)	Independent Research I
7950.1(.2)	Independent Research II
8000.1(.2)	Dissertation

Detailed descriptions of these courses are found in Section 5 of this Academic Calendar.

Master of Science in Applied Science with Co-operative Education Option

Program Coordinator: D. H. S. Richardson,
Dean of Science
Program Officer Susan Dore

Program Committee:

C. Barber	Biology
S. Bjornson	Biology
H. Broders	Biology
T. Charles	Finance, Information Systems and Management Science
D. Cone	Biology
J. Dostal	Geology
P. Giles	Geography
B. Hartnell	Mathematics and Computing Science
H. Jenkins	Chemistry
D. Jutla	Finance, Information Systems and Management Science
S. Konstantinidis	Mathematics and Computing Science
M. Lamoureux	Chemistry
E. Lee, Finance	Information Systems and Management Science
P. Lingras	Mathematics and Computing Science
N. Linney	Mathematics and Computing Science
J. Lundholm	Biology
J. MacInnes	Mathematics and Computing Science
A. MacRae	Geology
H. Millar	Finance, Information Systems and Management Science
H. Millward	Geography
P. Muir	Mathematics and Computing Science
S. Oore	Mathematics and Computing Science
V. Owen	Geology
G. Pe-Piper	Geology
A. Piorko	Chemistry
C. Pye	Chemistry
T. Rand	Biology
D. Richardson	Biology
R. Russell	Biology
R. Singer	Chemistry
K. Singfield	Chemistry
S. Sivakumar	Finance, Information Systems and Management Science
D. Strongman	Biology
G. Sun	Biology
C. Suteanu	Geography
D. Swingler	Engineering
V. Tarnawski	Engineering
S. Vankamamidi	Engineering
K. Vaughan	Chemistry
K. Vessey	Biology
H. Wang	Finance, Information Systems and Management Science
M. Wang,	Finance, Information Systems and Management Science
J. Young,	Chemistry

1. The Program

The Master of Science in Applied Science Program is an interdisciplinary degree program in applied science with a co-op option. The objectives of this program are to provide graduates with (1) training in analytical and numerical methods, use of graphics, visualization and multi-media tools, the acquisition, processing and analysis of large data sets, and (2) the opportunity to undertake a research topic that involves the application of these techniques to solving applied scientific problems related to the environment, natural resources and the high-tech industry. The Program is offered by the faculty members from Biology, Chemistry, Environmental Studies, Geology, Mathematics and Computing Science, and Engineering (Faculty of Science); Geography (Faculty of Arts); and Finance, Information Systems and Management Science (Faculty of Commerce). The Program is flexible with a Co-operative Education option; full-time or part-time studies are possible.

The Program will emphasize the interdisciplinary approach and external organizations play a very important role in the program through the development of collaborative research topics and the provision of placements for co-op students. Joint supervision of students is encouraged as is inter-departmental co-operation and interdisciplinary research topics. State-of-the-art analytical equipment and other facilities are available as a result of our successful applications to CFL.

2. Qualifications for Admission

The following two conditions must be satisfied to be eligible for admission to this Master of Science degree program:

- (i) Applicants must have earned an honours baccalaureate undergraduate degree in Science, or the equivalent.
- (ii) Applicants must have achieved a minimum cumulative grade point average of 3.0 (B) in their overall academic record.

3. Application

a. Applicants must submit academic transcripts, a statement that specifies areas of preparation, research interest for their thesis and three letters of recommendation from individuals who can attest to their academic competence and/or interest in pursuing academic training.

b. All applicants whose native language is not English and whose undergraduate education was conducted in a language other than English must fulfill the language requirement as set out in the relevant section of the Saint Mary's Academic Calendar and may be required to attend language training at the Teaching English as a Second Language (TESL) Centre.

c. Applicants who wish to be considered for a Graduate Fellowships should make a request in a covering letter and attach it to their curriculum vitae.

As admission to the Program is competitive, students are encouraged to apply by **February 1st**. Applications received after this date will be reviewed periodically on an individual basis by the Program Committee. Each application should be accompanied by a letter providing details of any funding or scholarships held or any potential industrial partnerships. The name of a proposed supervisor should be given (see website www.smu.ca). The Program Committee will then recommend admission into the M.Sc. in Applied Science program to the Program Coordinator.

4. Financial Support

Faculty of Graduate Studies and Research Fellowships and teaching assistantships are available to eligible students on a competitive basis. Eligible students are also encouraged to seek support under the NSERC Canada Graduate Scholarships (CGS), Industrial Postgraduate Scholarships (IPS) and Postgraduate Scholarships (PGS) programs (contact the NSERC or the Faculty of Science for details). In the absence of an NSERC CGS, IPS or PGS or financial support from other external sources, Faculty supervisors will contribute to the support of accepted students from research grants or contract to ensure that students normally have a minimum support from all sources of \$14,000 per annum for two years for co-op option (this includes the co-op wage which is normally paid to students during the co-op work terms) and \$15,000 per annum for two years for non co-op option.

For details on the fees for the MSc in Applied Science, see Section 6 of 2006-07 Academic Calendar or the 2006-07 Saint Mary's University Registration Booklet.

5. Structure of the Program

The normal duration of the Program for full-time students is two years; part-time students are allowable with permission of the Program Committee.

The Program will involve:

Twelve (12) credit hours of course work.

The course work must be approved by the Program Committee before the student enrolls in courses.

a. A six (6) credit hour seminar course (APSC 6600.0) which is attended by all students. This is focused on project definition, project planning and scientific writing. Students will also attend seminars given at Saint Mary's or other Halifax research institutes.

b. Two three (3) credit hour courses that focuses on interdisciplinary research techniques (APSC 6601.1 and APSC 6602.2).

Twelve (12) credit hour thesis courses

Twelve (12) credit hour thesis courses, APSC 6603.0 Thesis I and APSC 6604.0 Thesis II. The Supervisory Committee and the student will meet to define the thesis project and where appropriate, with the collaborating industrial or public sector partner before research is undertaken.

Coop Option: Twelve (12) credit hour coop work terms

The coop work terms will be a cognate field but not necessarily directly related to the thesis. The coop work terms will involve work that is appropriate to the Program and must be approved by the Program Coordinator.

Non Coop Option: Twelve (12) credit hours of course work

An Application for Directed Study form must be completed for graduate courses (see list of approved graduate courses) and Directed Study courses. The proposed course work to be completed and assessment plan must be appended to the Directed Study form which will be added to the student's file. The Directed Study form requires the approval of the Supervisory Committee and the signature of the Program Coordinator. No more than six (6) credit hours can be taught by the student's supervisor. Up to six (6) credit hours may be transferred from another institution.

6. Degree Requirements

Requirements for continuance in and graduation with a Master of Applied Science degree:

a. Students must earn twenty-four (24) credit hours of work and undertake two work terms for the coop option or thirty (30) credit hours of course work for the non coop option.

b. Students must maintain a minimum cumulative GPA of 3.0.

c. All degree requirements must be completed by full-time students within four years or part-time students within seven years of entry into the Master of Science degree program.

7. Supervisory Committee

A Supervisory Committee will consist of three members: the supervisor and two other faculty members. All three members must not be from the same department and at least one must be from a different discipline. The Supervisory Committee will be set-up within a month of the student's arrival on campus and the Supervisory Committee requires approval by the Program Committee.

a. Progress Reports, including thesis proposal and APSC 6603 Research Report must be prepared by the student and given via an oral presentation to the Supervisory Committee.

b. The Supervisory Committee completes an Annual Assessment for graduate studies and APSC 6603 Research Progress Report and assigns a grade for the APSC 6603 Research Progress Report. The forms requiring the signature of the Supervisory Committee indicating that each is satisfied with the student's progress, must be submitted to the Program Coordinator by September 30th of the first year.

102 Graduate Programs: Science

c. The Annual Assessment and APSC 6603 Research Progress Report will be approved by the Program Committee who will then forward it to the Dean of Graduate Studies for the student's official file.

d. Continuance in the program will be dependent on the student's satisfactory progress.

7. Thesis

a. The thesis must show both originality and the analytical/critical skills of research and interpretation.

b. A Thesis Proposal must be presented orally and approved by the Supervisory Committee within eight months of a student starting the program.

c. Each candidate must defend his/her thesis before an Examining Committee consisting of the Supervisory Committee and an External Examiner. The External Examiner will be selected by the Supervisory Committee two months prior to the defence and the nomination forwarded to the Program Committee. Once the External Examiner has been approved by the Program Committee, he/she will be officially invited by the Dean of Graduate Studies and Research. The Program Coordinator and the Dean of Graduate Studies and Research or his/her designate will attend the defence.

d. The defence of a candidate's thesis will consist of a public presentation by the candidate and an invitation for questions. Followed by an in-camera session involving the candidate, Supervisory Committee, External Examiner, Program Coordinator and Dean of Graduate Studies and Research or designate.

8. Courses

Core Courses

APSC 6600.0	Graduate Seminar
APSC 6601.1	Research Techniques I
APSC 6602.2	Research Techniques II
APSC 6603.0	Thesis I
APSC 6604.0	Thesis II
APSC 6605.1(.2)	Directed Study

Department of Biology

BIOL 6602.1(.2)	Population genetics (BIOL 3402)
BIOL 6611.1(.2)	Animal Parasitology (BIOL 3411)
BIOL 6614.1(.2)	Environmental Microbiology (BIOL3414)
BIOL 6618.1(.2)	Plant Physiology (BIOL 4418)
BIOL 6619.1(.2)	Molecular Biology (BIOL 4419)
BIOL 6650.1(.2)	Diversity of Forest Ecosystems (BIOL4450)
BIOL 6690.1(.2) to	Directed Study in Biology (BIOL4490-
BIOL 6699.1(.2)	4499)

Department of Chemistry

CHEM 6611.0	Selected Topics in Physical Chemistry
-------------	---------------------------------------

CHEM 6612.1(.2)	Quantum Chemistry (CHEM 4412)
CHEM 6613.1(.2)	Physical Chemistry (CHEM 4413)
CHEM 6614.1(.2)	Symmetry and Chemical Applications of Group Theory (CHEM 4414)
CHEM 6621.0	Selected Topics in Inorganic Chemistry (CHEM 4421)
CHEM 6622.1(.2)	Advanced Topics in Inorganic Chemistry (CHEM 4422)
CHEM 6631.0	Selected Topics in Analytical Chemistry
CHEM 6632.1(.2)	Instrumental Analysis I (CHEM 3432)
CHEM 6633.1(.2)	Instrumental Analysis II (CHEM 3433)
CHEM 6641.0	Selected Topics in Organic Chemistry
CHEM 6643.1(.2)	Organic Reaction Mechanisms (CHEM 3443)
CHEM 6644.1(.2)	Synthesis in Organic Chemistry (CHEM 4444)
CHEM 6645.1(.2)	Organic Spectroscopy (CHEM 3445)
CHEM 6651.1(.2)	Biochemistry (CHEM 3451)
CHEM 6652.1(.2)	Biochemistry: Metabolism (CHEM 4452)
CHEM 6653.0	Selected Topics in Biochemistry

Environmental Studies Programme

ENVS 6630.1(.2)	Directed Studies in Environmental Science (ENVS 4530)
ENVS 6650.1(.2)	Natural Resource Management (ENVS 4450)
ENVS 6660.1(.2)	Methods of Environmental and Natural Resource Analysis (ENVS 4460)

Department of Finance, Information Systems & Management Science

MGSC 6603.1(.2)	Statistical Applications in Management Science I
MGSC 6615.1(.2)	Strategic Design and Improvement of Operations
MGSC 6618.1(.2)	Total Quality Management
CISY 6624.1(.2)	Database Systems
CISY 6636.1(.2)	Decision Support Systems
MGSC 6690.1(.2)	Seminar in Management Science
MGSC 6692.1(.2)	Directed Study

Department of Geography

GEOG 6613.1(.2)	Costal Geomorphology (GEOG 4413)
GEOG 6614.1 (.2)	Integrated Coastal Zone Management (GEOG 4414)
GEOG 6615.1(.2)	Directed Studies
GEOG 6623.1 (.2)	Glacial Geomorphology (GEOG 4423)
GEOG 6624.1(.2)	Directed Studies in Marine Geography
GEOG 6633.1 (.2)	Fluvial Geomorphology (GEOG 4433)
GEOG 6636.1 (.2)	Advanced Remote Sensing (GEOG 4436)

GEOG 6643.1 (.2) Natural Hazards (GEOG 4443)
GEOG 6686.1 (.2) Concepts in Geographical Information
Systems (GIS) (GEOG 3386)
GEOG 6696.1 (.2) Applications in Geographical Information
Systems (GEOG 4496)

Department of Geology

GEOL 6630.1(.2) Directed Study in Geology (GEOL 4530)
GEOL 6641.1(.2) Mineral Resources (GEOL 4441)
GEOL 6642.1(.2) Economic Mineral Deposits
(GEOL 4442)
GEOL 6654.1(.2) Applied Geochemistry (GEOL 3454)
GEOL 6666.1(.2) Petroleum Geology (GEOL 4466)

Department of Mathematics & Computing Science

CSCI 6623.1(.2) Cryptography (CSCI 4423)
CSCI 6634.1(.2) Programming Language Translation
(CSCI 4434)

CSCI 6651.1(.2) Theory of Computation (CSCI 3451)
CSCI 6652.1(.2) Algorithm Analysis (CSCI 4452)
CSCI 6661.1(.2) Database Systems (CSCI 3461)
CSCI 6663.1(.2) Numerical Software (CSCI 4463)
CSCI 6671.1 (.2) Computer Graphics (CSCI 4471)
CSCI 6674.1(.2) Information Retrieval (CSCI 4474)
CSCI 6676.1 (.2) Computer Vision and Digital Image
Processing (CSCI 4476)
CSCI 6677.1(.2) Data Mining (CSCI 4477)
CSCI 6682.1(.2) Artificial Intelligence (CSCI 3482)
CSCI 6691.1(.2) to Special Topics in Computing Science
CSCI 6699.1(.2) (CSCI 4491 to CSCI 4499)
MATH 6690.1(.2) to Directed Study in Mathematics
MATH 6699.1 (.2) (MATH 4490 to MATH 4499)



*A team of scientists from Saint Mary's take to the woods to research bats: From right to left:
Dr. Hugh Broders, Colin Garroway, Lynne Henderson, Lesley Corning, and Bridget Tutty.*

Graduate Programs: Education

Acting Dean, Professor Dr. Esther E. Enns
Associate Professor Dr. Bernard Davis

The Faculty of Education offers opportunities for practicing teachers to pursue post-degree credentials.

Master of Education in Teaching of English as a Second or a Foreign Language

The Faculty of Education at Saint Mary's University works in collaboration with Mount Saint Vincent University in offering a

Master of Education degree in the Teaching of English as a Second or Foreign Language through that institution. Saint Mary's University teaches half of the courses constituting this program. These courses provide an introduction to the principles and practices of second or foreign language teaching. They are described in Section 5 of this *Academic Calendar*.

The courses which Saint Mary's teaches as part of the M.Ed. (TESL) program are also suitable for inclusion in Integrated Programs for the professional development of teachers dealing with students living in more than one language.

Post-Degree Certification

Saint Mary's offers two post-degree Certificate programs for the professional development of teachers which have been approved for the upgrading of Nova Scotia Teachers Certificates.

Certificate in the Mathematical Sciences for Education

The Certificate in the Mathematical Sciences for Education is described under Mathematics and Computing Science in Section 5 of this *Academic Calendar*.

Certificate in Linguistics

The Certificate in Linguistics is described under Linguistics in Section 5 of this *Academic Calendar*.



Left to right: Father Con Mulvihill, Chaplain; Gabrielle Morrison, Vice-President of Administration; Vanessa Kavanagh, student enrolled in the Master of Applied Science Program (major in Plant Physiology); Dr. J. Colin Dodds, President of Saint Mary's; and Dr. David Richardson, Dean of Science, prepare to turn the sod for the Science Building addition and renovation.

Continuing Education

Section

4

Continuing Education

The Division of Continuing Education coordinates administration of University programs for part-time and mature learners. This includes a summer sessions program, admission advising for mature and non-degree students, courses at extension centres, executive and professional development programs. As well, in cooperation with the Sobey School of Business and the Department of Psychology, the Division coordinates the Certificate in Human Resource Management. The main office of the Division of Continuing Education is located on campus at 883 Robie Street, the white house directly south of the McNally Building. The Division also maintains an extension office and seminar rooms at the World Trade Centre, 8th Floor, 1800 Argyle Street and also offers programs on the 4th floor of The Sobey Building on campus.

Information Session – Mature Students

The staff of the Division of Continuing Education hold regular information sessions both on and off campus on program availability and application procedures for mature and non-degree students. To receive an information package and reserve a place at the next information session, call the Division of Continuing Education, 902-420-5490. For details of the mature and non-degree admissions procedures, consult Section 2 of this *Academic Calendar*.

Part-time Degree Programs

It is possible to complete the Bachelor of Arts, the Bachelor of Commerce and the Certificate in Human Resource Management programs entirely through part-time, evening study. As well, it is possible to begin the Bachelor of Science program and Diploma in Engineering programs by part-time study. Each year the Division of Continuing Education publishes a schedule of late afternoon and evening courses to assist part-time students in planning their programs. Part-time students are encouraged to seek academic counselling from the dean of their faculty, the chairperson of the department in which they are majoring, or their designated faculty advisor.

Summer Sessions

Saint Mary's University offers a wide selection of courses in two summer sessions offered each year. The tentative dates for the summer sessions are listed in the Calendar of Events in the front of this *Academic Calendar*. A preliminary listing of summer school courses is available from the Division of Continuing Education by December and is also posted on the Continuing Education website: www.smu.ca/conted/summer. A brochure detailing all of the summer session course offerings is published each year in early March.

Extension Centre Courses

Each year Saint Mary's University offers degree credit courses in a number of off-campus extension centres. Courses are offered in a variety of settings: schools, libraries, office buildings, and cultural centres and in many locations: including Dartmouth and downtown Halifax. Several credit courses are now available over the internet using the world wide web. These courses allow part-time and mature learners to begin or continue their university studies without having to leave their community or place of work. For information on courses being offered during the academic year and the summer sessions contact the Division of Continuing Education or check our website: www.smu.ca/conted/ext/.

Executive and Professional Development

Drawing upon the academic resources of the University, the Executive and Professional Development Programs are designed to promote and improve management and financial skills that benefit both individual career development and organizational and business success. Programs include a diverse selection of seminars and courses that promote innovative management practices and contribute to successful operations. Programs include certificates in business communications, negotiation and conflict resolution, leadership, marketing, international business and leading innovation. Diploma programs are described further on in this *Calendar* entry. In partnership with the Division of Executive Development, York University, Saint Mary's offers advanced management seminars and a Masters Certificate in Project Management. For further information on our programs consult the Executive and Professional Education web site: www.smu.ca/conted/epd.

Certificates in Human Resource Management

Saint Mary's provides a series of courses to fulfil the requirements for a certificate program in human resource management with either a Management option or a Psychology option. These Certificate programs are beneficial to both individuals currently working in the human resources departments and those who wish to prepare themselves for a career in the field.

The details for admission to those programs as well as the program requirements are found in the relevant department's descriptions below in Section 5, namely, in the Department of Management in the case of the Management option and in the Department of Psychology for the Psychology option.

Professional Sales Programs

In partnership with the Canadian Professional Sales Association (CPSA), the Division of Continuing Education is offering CPSA Sales Institute courses. CPSA Sales Institute courses are part of the national sales certification program, but are also open to anyone interested in the sales field. The Division of Continuing Education offers Professional Selling and Professional Sales Management courses.

Payroll Courses

In partnership with the Canadian Payroll Association, Saint Mary's University offers all three levels of the Payroll Management Program. For more information, contact the Division of Continuing Education at 902-420-5638 or the Canadian Payroll Association at 1-800-387-4693.

Other Coordinated Programs

Saint Mary's University courses can be used as credit towards professional designations offered by the following associations:

- Appraisal Institute of Canada
- Canadian Hospital Association
- Canadian Institute of Management
- Certified General Accountants Association
- Institute of Canadian Bankers
- Insurance Institute of Canada
- Purchasing Managers Association of Canada
- Real Estate Institute of Canada

For information on any of these programs contact the association directly.

Certificate in Marketing and Diploma in Marketing

The Certificate in Marketing is designed to provide you with a thorough understanding of the fundamental concepts and issues in marketing. This interactive program combines theory with practice, and will strengthen your marketing skills and techniques.

The Diploma in Marketing is designed to provide you with a thorough understanding of the fundamental concepts and issues in marketing. This is an interactive program that combines theory with practice and includes lectures, in-class discussions, case studies, a team project and presentation. By completing the diploma, you will be able to make better business decisions and develop strategies that are essential for your organization's success.

For further information, please contact Saint Mary's University at the World Trade Centre, 902-420-5638 or check out our website: www.smu.ca/conted/epd.

Management Development for Women

To help employers develop the management performance of capable women, the Management Development for Women program provides practical skills in management functions in a supportive learning environment. This ten month program, offered jointly by Mount Saint Vincent University and Saint Mary's University, gives participants a thorough grounding in management skills through intensive classroom learning and in-depth assignments. For information please contact Saint Mary's at the World Trade Centre, 902-420-5638 or check out our website: www.smu.ca/conted/epd.

Diploma in Management

This program provides experienced managers with the skills and knowledge necessary to ensure that their business goals and objectives are met and exceeded. The program consists of three five-day modules over a six month period covering such topics as finance, marketing, human resources, leadership and strategic management, plus a Directed Study and five hours of individual coaching sessions. To help apply the concepts and techniques featured in the program, the program includes ten hours of individual coaching by course instructors. For further information, please contact Saint Mary's at the World Trade Centre, 902-420-5638 or check out our website: www.smu.ca/conted/epd.

University Preparatory Courses

The Division of Continuing Education offers upgrading courses in writing skills and mathematics. Preparation and review courses are offered for both the General Management Admissions Test (GMAT) and the Law School Admissions Test (LSAT). For a descriptive course brochure please contact the Division of Continuing Education at 902-420-5490 or check out our website: www.smu.ca/conted/uprep.

Elder Learners

Each fall and winter, the Division of Continuing Education offers a monthly lecture series for Elder Learners, an organization that promotes active learning for seniors. As well, general interest courses and study tours are offered. For more information call 420-5020 or check out our website: www.smu.ca/conted/el.

Information

Descriptive pamphlets, summer session brochures, and evening program schedules are available from the Division of Continuing Education, Saint Mary's University, Halifax, Nova Scotia, B3H 3C3. Telephone 902-420-5492; Fax 902-420-5103; or www.smu.ca.



Transfer students from Beijing Normal University (Zhuhai) enjoyed an apple picking excursion to Wolfville in September 2005. They were accompanied by Mr. Bill Bu, Saint Mary's alumni and facilitator of BNU (Zhuhai) linkage, and Mrs. Shirley Xu, Zhongnan University of Economics and Law faculty member.

Description of Courses

Section

5

Accounting (ACCT)

Chairperson,	P. Secord
Associate Professor	T. Cheng, R. Chesley, B. Gorman, N. Young
Professors	B. Anderson, D. Bateman, X. Song
Associate Professors	G. Ansong, J. Power, K. Lightstone,
Assistant Professors	P. Robinson
Lecturers	K. Mader
Adjunct Professor	F. Dougherty
Professor Emeritus	

The Department of Accounting offers a program for accounting majors that will prepare students for careers in professional accounting, industry and government. The Department also offers courses in financial and managerial accounting and information systems for all Commerce students.

Joint SMBA-CMA Program

Saint Mary's University has an agreement with CMA Nova Scotia that will permit students to earn the Certified Management Accountant (CMA) designation and the Master of Business Administration degree concurrently. This program, unique in Canada, is designed for part-time students and normally requires 28 months to complete. For complete details, see Section 3 of this *Calendar*.

Commerce graduates may receive exemption from many of the courses and examinations conducted by the Atlantic School of Chartered Accountancy, and various other institutes of chartered accountants, the Society of Management Accountants, the Institute of Internal Auditors, and the Certified General Accountants Association. The exemptions are based upon specific courses taken and the grades obtained in the undergraduate program. Details of these exemptions may be obtained from the Chairperson of the Department.

The Department also has an agreement with The Association of Chartered Certified Accountants (ACCA) by which all graduates of Saint Mary's Bachelor of Commerce degree program may gain exemption from virtually all of the Foundation and Certification stages of the ACCA program.

The Accounting Major: In addition to meeting the general requirements for a Bachelor of Commerce degree, students must also complete the requirements for the major.

Year 3

ACCT 3323.1(.2) Management Information Systems
 ACCT 3333.1(.2) Cost Management: Measurement Systems
 ACCT 3334.1(.2) Cost Management: Systems Evaluation
 ACCT 3341.1(.2) Intermediate Financial Accounting I
 ACCT 3342.1(.2) Intermediate Financial Accounting II
 ACCT 3345.1(.2) Financial Accounting Theory
 FINA2360.1(.2) Business Finance I
 FINA 3361.1(.2) Business Finance II
 MGMT 3480.1 (.2) Ethical Responsibilities in Organizations
 Three (3) credit hours in free electives

Year 4

ACCT 4455.1(.2) Financial Accounting Seminar, or
 ACCT 4470.1(.2) Management Accounting Seminar
 Six (6) credit hours in Accounting electives – see note (i) below
 MGMT 4489.1(.2) Strategic Management
 Twelve (12) credit hours in non-Commerce electives
 Six (6) credit hours in free electives at 2000-level or above
 [six (6) credit hours] – see note (ii) below

Notes: (i)CISY 2324.1(.2), CISY 3326.1(.2), or CISY 4435.1(.2) as well as ACCT 3357.1(.2) or any 4000 level course in Accounting not used to fulfil other requirements may be used to satisfy this requirement.
 (ii)CMLW 3202.1(.2) is normally required by professional accounting associations in order to receive an exemption for commercial law. Check with the Chairperson for the most recent requirements.

Students with a grade of D in ACCT 2242.1(.2), ACCT 3341.1(.2) or ACCT 3342.1(.2) are advised against pursuing an accounting major.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, ACCT 2241.1(.2) was formerly ACC 241.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
ACC 241	ACCT 2241	ACC 475	ACCT 4475
ACC 242	ACCT 2242	ACC 480	ACCT 4480
ACC 323	ACCT 3323	ACC 490	ACCT 4490
ACC 332	ACCT 3332	ACC 492	ACCT 4492
ACC 333	ACCT 3333	ACC 540	ACCT 5540
ACC 334	ACCT 3334	ACC 548	ACCT 5548
ACC 341	ACCT 3341	ACC 624	ACCT 6624
ACC 342	ACCT 3342	ACC 626	ACCT 6626

ACC 343	ACCT 3343	ACC 641	ACCT 6641
ACC 345	ACCT 3345	ACC 648	ACCT 6648
ACC 357	ACCT 3357	ACC 650	ACCT 6650
ACC 423	ACCT 4423	ACC 652	ACCT 6652
ACC 424	ACCT 4424	ACC 653	ACCT 6653
ACC 425	ACCT 4425	ACC 654	ACCT 6654
ACC 429	ACCT 4429	ACC 656	ACCT 6656
ACC 443	ACCT 4443	ACC 657	ACCT 6657
ACC 444	ACCT 4444	ACC 658	ACCT 6658
ACC 445	ACCT 4445	ACC 660	ACCT 6660
ACC 449	ACCT 4449	ACC 662	ACCT 6662
ACC 450	ACCT 4450	ACC 664	ACCT 6664
ACC 453	ACCT 4453	ACC 666	ACCT 6666
ACC 454	ACCT 4454	ACC 668	ACCT 6668
ACC 455	ACCT 4455	ACC 680	ACCT 6680
ACC 460	ACCT 4460	ACC 690	ACCT 6690
ACC 470	ACCT 4470	ACC 692	ACCT 6692
		ACC 699	ACCT 6699

2241.1(2) Introductory Financial Accounting

Prerequisite: Fifteen (15) credit hours, including MGMT 1281.1(2) or appropriate work experience determined in advance by the Chairperson of the Department.

This course is concerned with a study of basic accounting concepts and principles, their application to business transactions and financial statements, and an understanding of the uses and limitations of the balance sheet, income statement, and statements of cash flow.

2242.1(2) Introductory Managerial Accounting

Prerequisite: ACCT 2241.1(2); ECON 1201.1(2); and MGSC 1205.1(2).

This course serves as an introduction to managerial uses of accounting data in the production of goods and the provision of services. Accounting concepts and principles will be studied from the perspective of managerial decision-making.

3323.1(2) Management Information Systems

Prerequisite: ACCT 2242.1(2).

The study of computer-based data processing and information systems, management problems of computers in business such as organization, control and feasibility.

3332.1(2) Planning and Control

Prerequisite: ACCT 2242.1(2) and CISY 1225.1(2).

This course for non-accounting majors covers both the concepts and techniques of planning and control. Topics may include financial decision making, activity management, performance measurement and analysis, cost allocation, and management control systems. A major focus is the enhancement of teamwork, analytical, and other decision-making skills.

3333.1(2) Cost Management: Measurement Systems

Prerequisite: ACCT 2242.1(2) and MGSC 2207.1(2).

The course focuses on topics related to the identification, classification, and evaluation of costs and various cost measurement systems (e.g., job order costing, process costing, activity-based costing, and cost estimation). This course is designed for majors in accounting.

Note: Students cannot receive credit for both ACCT 3332.1(2) and 3333.1(2).

3334.1(2) Cost Management: Systems Evaluation

Prerequisite: ACCT 3333.1(2); or ACCT 3332.1(2) and written permission of the Chairperson of the Department of Accounting.

The course focuses on topics related to the evaluation of performance and business processes (e.g. cost variance analysis, revenue variance analysis, just-in-time inventory, computer-integrated manufacturing).

3341.1(2) Intermediate Financial Accounting, I

Prerequisite: ACCT 2242.1(2) and CISY 1225.1(2).

This course, together with ACCT 3342.1(2) provides a comprehensive study of financial accounting and financial reporting. This course is to be followed by Intermediate Financial Accounting – Part II.

Classes 3 hrs. and lab 75 min. a week.

3342.1(2) Intermediate Financial Accounting, II

Prerequisite: ACCT 3341.1(2).

This course together with ACCT 3341.1(2) provides a comprehensive study of financial accounting and financial reporting.

Classes 3 hrs. and lab 75 min. a week.

3343.1(2) Financial Accounting Analysis

Prerequisite: ACCT 2242.1(2)

Financial Accounting Analysis is focused on the form and content of financial information disclosed by organizations to external parties together with the development of skills needed to analyze the information. The primary audience for this course is non accounting majors in their third or fourth year.

Note: Students cannot receive credit for this course if they already have credit for ACCT 3341.1(2) and 3342.1(2).

3345.1(2) Financial Accounting Theory

Prerequisite: ACCT 3341.1(2).

Study of objectives of financial accounting, major accounting theories, evolution of financial accounting theory and practice, survey of contemporary accounting practice with emphasis on latest developments and issues. This course should be taken concurrently with ACCT 3342.1(2) or after the completion of ACCT 3342.1(2).

3357.1.(2) International Accounting

Prerequisite: ACCT 2242.1.(2).

An introduction to accounting in the international environment, building on introductory financial (and to a lesser extent, managerial) accounting to provide the requisite background to understand accounting issues facing multinational firms. These include: foreign currency transactions, and translation of financial statements; inter-corporate investment, including consolidation of subsidiaries, both foreign and domestic; inflation and current value accounting; transfer pricing; as well as information systems and audits.

4423.1.(2) Accounting Information Systems and Control

Prerequisite: COMM 2293.1 (.2); ACCT 3323.1.(2); 3332.1.(2) or 3333.1.(2); and 3341.1.(2) or 3343.1.(2); also MGMT 2384.1.(2).

This course expands on the systems and control concepts introduced in ACCT 3323. Accounting transaction processing, the use of accounting information systems (AIS), and their design and construction are analyzed. Internal controls within AIS, evaluation techniques, and techniques for developing, documenting, and monitoring the effectiveness of AIS are investigated.

Classes 3 hrs. and lab 75 minutes a week.

4424.1.(2) Small Business Accounting Information Systems

Prerequisite: ACCT 3323.1.(2) and COMM 2293.1 (.2).

This course examines issues relating to the role, selection, design, and implementation of commercially-developed accounting information systems in small business. The course provides students with an opportunity to gain practical experience by utilizing a decision support system to assist in the software selection process for a local small business. Students will also learn to use at least one commercially-developed accounting software package.

4425.1.(2) Management Information Systems II

Prerequisite: ACCT 3323.1.(2) and COMM 2293.1 (.2).

This course is an introductory systems analysis and design course covering fundamental systems concepts; the systems development life cycle; and processes, tools and techniques for each stage in the life cycle, with emphasis on requirements analysis and design. Project management, proposal development and presentation and cost-benefit analysis techniques are also discussed. These concepts and skills are applied in a major practical case project.

4429.1.(2) Seminar in Management Information Systems

Prerequisite: ACCT 3323.1.(2) and COMM 2293.1 (.2) and one of ACCT 4423.1.(2), ACCT 4425.1.(2), or CISY 4425.1.(2).

This capstone MIS course addresses the rising need of managers to recognize the strategic importance of information systems. The concept of information as a corporate resource is emphasized. Techniques for planning, developing, controlling and evaluating an organization's "information architecture" are presented. Special emphasis is placed in reviewing how information technology (IT) can be used as a management tool to increase organizational competitiveness (strategic information systems planning). Alternative IT development and implementation strategies are evaluated. Corporate investment in existing and emerging information technologies (electronic commerce, executive support systems, expert systems, distributed data processing, office automation, etc.) is evaluated in terms of its ability to produce real efficiency, effectiveness and transformation gains. This course will make extensive use of case studies.

4443.1.(2) Advanced Financial Accounting – Corporate Accounting

Prerequisite: COMM 2293.1 (.2) and ACCT 3342.1.(2).

This course covers long term investments in equity securities and international operations.

Classes 3 hrs. and lab 75 min. a week.

4444.1.(2) Advanced Financial Accounting – Special Topics

Prerequisite: COMM 2293.1 (.2); ACCT 3342.1.(2) and 3345.1.(2).

This course includes consideration of accounting standards of disclosure, accounting measurement and alternatives, entities in financial difficulties, financial instruments, and not-for-profit and public sector accounting issues.

4445.1.(2) Financial Statement Analysis

Prerequisite: COMM 2293.1 (.2); ACCT 3341.1.(2) or 3343.1.(2); and FINA 3361.1.(2).

This course will examine how accounting information can be used to evaluate a firm. The importance of economic conditions, accounting policy choice, and strategic management decisions for statement analysis will be considered. The course will also explore the usefulness and limitations of public disclosure for decision-making. Techniques for analysis and forecasting will be discussed as well as current research findings that impact on financial statement analysis.

4449.1(2) Management Control Systems

Prerequisite: COMM 2293.1 (.2); ACCT 3332.1(2) or 3333.1(2); MGMT 2383.1(2) and MGMT 2384.1(2).

A study of the management control system which examines problems of effective and efficient control from the perspective of the total system: expense centers, profit centers, investment centers, strategic planning, budgeting, performance appraisal. This course is recommended for non-accounting majors seeking further study in accounting.

4450.1(2) Auditing

Prerequisite: ACCT 3342.1(2) and COMM 2293.1 (.2).

A study of the basic concepts and theory of auditing including the auditing environment, the auditor's role, the structure of the profession, responsibilities of auditors, nature and theory of evidence, the auditor's report and other related topics.

4453.1(2) Taxation – Part I

Prerequisite: COMM 2293.1 (.2) and ACCT 3342.1(2) or FINA 3361.1(2).

This course is the first of a two course sequence which introduces the student to the fundamental principles of taxation (the theory), the compliance aspects of the law (the practice), and the rationale for specific tax provisions (the policy). The course also examines the effect of taxation law on the investment decisions of individuals and corporations. Both personal and corporation income taxation are covered.

4454.1(2) Taxation – Part II

Prerequisite: ACCT 4453.1(2)

This course examines in greater depth the topics covered in ACCT 4453.1(2), and introduces the student to the concept and principles of commodity taxation. Course assignments concentrate on the effect of tax law on personal and managerial decision making.

4455.1(2) Financial Accounting Seminar

Prerequisite: COMM 2293.1 (.2); ACCT 3342.1(2) and 3345.1(2).

An intensive study of the problems of income determination, asset valuation and liability and equity measurements; a study of the conventional accounting model and the accounting theories that are proposed as a framework for the resolution of the problems in the conventional model.

4460.1(2) Internal/Operational Auditing

Prerequisite: COMM 2293.1 (.2); ACCT 3332.1(2) or 3333.1(2); ACCT 3341.1(2) or 3343.1(2).

A study of the concepts and theory of internal/operational auditing including the internal/operational audit environment; the structure of the auditing profession; the duties, responsibilities and procedures of auditors; and the relationship between the internal/operational auditing function and the external audit.

4470.1(2) Management Accounting Seminar

Prerequisite: ACCT 3334.1(2) and COMM 2293.1 (.2).

This capstone course in the managerial accounting sequence provides an exposure to recent developments in the management accounting literature. The course introduces material relating to operations management, strategic planning, and management control systems. Integrating this material with knowledge gained in previous courses is a major purpose of the course. The course develops an understanding of the interactions between planning and control systems. These relationships deal with the three basic issues of management accounting: the choice of useful information, the problems in its measurement, and the behavioural consequences of using the data.

4475.1(2) Business Consultancy

Prerequisite: COMM 2293.1 (.2); ACCT 3332.1(2) or 3333.1(2); ACCT 3341.1(2) or 3343.1(2), and permission of Chairperson of the Department.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary's University Business Development Centre. Student groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project's results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information see www.stmarys.ca/smubdc.

Internship. 1 semester.

4480.1(2) Accounting and Small Business

Prerequisite: COMM 2293.1 (.2); ACCT 3323.1(2); ACCT 3332.1(2) or 3333.1(2); and FINA 2360.1(2).

This course addresses a variety of accounting issues from the perspective of small business: business plans and feasibility studies, accounting information systems, internal control, working capital management, financial statement analysis, business valuation, and other issues of current concern.

4490.1.(2) Selected Topics in Accounting

Prerequisite: COMM 2293.1 (.2); ACCT 3332.1(.2) or 3333.1(.2); ACCT 3341.1(.2) or 3343.1(.2); and permission of chairperson.

This course deals with selected topics in accounting. The topics to be covered will vary depending on the interests of the instructor and are subject to departmental approval.

4492.1.(2) Directed Study

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson of the Department and instructor.

This course provides an opportunity to study specific areas of accounting, auditing, taxation or information systems. A detailed course proposal must be submitted and will be evaluated on its educational merits. In-depth study of accounting concepts, systems, auditing, or taxation issues are intended to be within the scope of this course.

The following courses are available only to students registered in the Master of Business Administration Program and, with permission of the MBA Director, to students registered in other master's programs.

5540.1.(2) Financial Accounting

This course provides an introduction to financial accounting and presumes no prior knowledge of the subject. Using a conceptual approach, the student is given a thorough understanding of financial accounting concepts, principles and practices. Emphasis is placed on providing the student with a fundamental knowledge of how to interpret and analyze financial statements and also with an appreciation of the limitations inherent in published financial information.

5548.1.(2) Managerial Accounting

Prerequisite: ACCT 5540.1(.2).

The primary objective of this course is to provide the student with a knowledge of the various types of accounting information which are available for use by managers in decision-making. The student examines selected cost concepts and the appropriateness of their use in diverse areas of decision-making. Product costing, budgeting, profit-planning and performance measurement make up the major portion of the course content.

6624.1.(2) Small Business Accounting Information Systems

Prerequisite: completion of all 5000-level SMBA courses or permission of the MBA Director.

This course examines issues relating to the role, selection, design, and implementation of commercially-developed accounting information systems in small businesses. The course provides students with an opportunity to gain practical experience by utilizing a decision support system to assist in the software selection process for a local small business. Students will also learn to use at least one commercially-developed accounting software package.

6626.1.(2) Management Information Systems: Strategy and Practice

Prerequisite: completion of all required 5000-level SMBA courses or permission of the MBA Director.

This course addresses the rising need of managers to recognize the strategic importance of information systems and to be able to create new work environments which allow their organizations to leverage knowledge globally, organize for complexity, work electronically, and handle continuous and discontinuous change. The concept of information as a corporate resource which must be effectively planned, developed, managed and controlled is emphasized.

6641.1.(2) Financial Reporting and Statement Analysis

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course examines financial statements from the perspective of both preparers and users of financial information. Commencing with analytical models of information production, the course focuses on various mechanisms of information extraction. Techniques such as ratio analysis, signal extraction, forecasting are used to establish functional relations between the accrual process and the economic position of a firm. Consequently, the course provides a framework for using accounting information to evaluate a firm.

6648.1.(2) Management Control Systems

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

Designed to provide the student with an understanding of the nature of management control systems, this course places particular emphasis on organizational structure and the control process. Various applications of the 'responsibility center' concept are examined as well as planning, budgeting and performance appraisal. The emphasis is on the design of systems suitable to the organization and its objectives and includes consideration of both profit-oriented and non-profit organizations.

6650.1.(2) Integrative Managerial Accounting I

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

Beginning with organizational goals and objectives, and involving strategy, policy, and implementation issues, this course examines the development of management planning and control systems in the modern organization. The focus will be on techniques and processes that lead to improved management decision making. Some of the topics discussed may include activity-based management, target costing, value chains, life cycle costing, principal and agency relationships, and customer value analysis. Integrative problem solving and case-analysis will be emphasized both at a group and individual level.

6652.1(2) Integrative Managerial Accounting II

Prerequisite: ACCT 6650.1(.2).

This is a continuation of Integrative Managerial Accounting I. Particular emphasis is placed on the study of change management processes and techniques, and performance analysis and evaluation. Some of the topics discussed may include economic value added, balanced scorecard, total quality management, corporate reengineering, and strategic brand valuation. Integrative problem solving and case-analyses will be emphasized both at a group and individual level.

6653.1(2) Taxation

Prerequisite: completion of all required 5000-level SMBA courses or permission of instructor.

An introductory study of federal corporate and personal taxation, with particular emphasis on the managerial decision making and investment implications of taxation. The course will also introduce students to the basic federal sales tax system.

6654.1(2) Advanced Financial Accounting Theory

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director, an accounting major undergraduate degree including an accounting theory course, and permission of Chairperson of the Department.

Accounting theory involves conceptual, historical, and empirical developments. Exploration of these issues in light of recent developments will be made in this course. Included are theoretical issues surrounding advanced accounting topics such as not-for-profit organizations, foreign currency, business combinations, non-going concerns, partnerships, and resource industries.

6656.1(2) Integrative Financial Accounting

Prerequisite: ACCT 6654.1(.2) and permission of Chairperson of the Department.

Theory and practice will be combined to investigate complex financial accounting issues and problems. Recent research and practice will be explored as part of this course.

6657.1(2) International Accounting

Prerequisite: ACCT 5540.1(.2) and 5548.1(.2).

An introduction to accounting in the international environment and especially within multinational enterprise, which will involve in-depth examination of international accounting issues. Topics will include: international accounting standards; foreign exchange, foreign currency transactions, and translation of financial statements; inter-corporate investments; accounting for changing prices; transfer pricing; international aspects of taxation; culture and accounting; as well as accounting in developing countries.

6658.1(2) Computer Based Auditing

Prerequisite: completion of all required 5000-level SMBA courses or permission of Chairperson of the Department.

This course investigates internal controls and audit in computer and data communications environments. Topics include hardware and software control features, data security, control evaluation, computer assisted auditing, statistical sampling and working paper preparation and selected current topics. Microcomputer and networked systems will be emphasized.

6660.1(2) Integrative Public Auditing

Prerequisite: Completion of all required 5000-level SMBA courses or permission of Chairperson of the Department.

Specialized public auditing areas such as forensic audits, environmental audits, and computer systems investigations will be combined with the study of recent audit questions of concern to both practitioners and researchers.

6662.1(2) Integrative Internal Auditing

Prerequisite: Completion of all required 5000-level SMBA courses or permission of the Chairperson of the Department.

This course covers value-for-money auditing and operational and management audits, investigations of computer systems and emerging issues in internal auditing. Modern management practices and approaches will constitute necessary background.

6664.1(2) Advanced Taxation Legislation – Corporate and Sales

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director, an accounting major undergraduate degree including an income tax course, and permission of Department.

Tax legislation is not only complex but subject to continual change. This course will explore the recent changes in both corporate and sales tax legislation and engage in an in-depth study of selected areas of the legislation relevant to business decisions.

6666.1(2) Taxation and Financial Planning

Prerequisite: Completion of all required 5000-level SMBA courses or permission of the MBA Director.

The tax implications for various complex business decisions such as mergers, capital structuring, investments, and business valuations will be investigated. Recent income tax legislation will also be considered as part of the investigation conducted.

6668.1(2) Advanced Management Information Systems (MIS)

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director, an Accounting MIS course, and permission of Department.

This course analyzes advanced topics in computerized information systems from an accounting perspective. Systems analysis and design, database design, systems documentation and the role of expert systems and artificial intelligence will be explored.

6680.1(2) Environmental Accounting

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course is designed to help students understand how to monitor, control, measure, and report the environmental impact of business and public sector organizations. The course will include an overview of sustainable development from an accounting perspective, external reporting of environmental costs and obligations, internal planning, budgeting and control of costs, and an introduction to environmental auditing. The course is oriented toward integration of the concepts of sustainable resource management into the integral planning and external reporting of the organization, and will include case studies and projects which endeavour to integrate the field of accounting with others related to the interaction of the environment with the economy. To the extent possible, applications and cases, as well as the skills of professionals not members of the Department of Accounting, will be used to strengthen this integration.

6690.1(2) Seminar in Accounting

Prerequisite: ACCT 6652.1(2) or permission of MBA Director.

The course deals with selected topics in the accounting area. Current development in accounting and other related areas will be studied.

6692.1(2) Directed Study

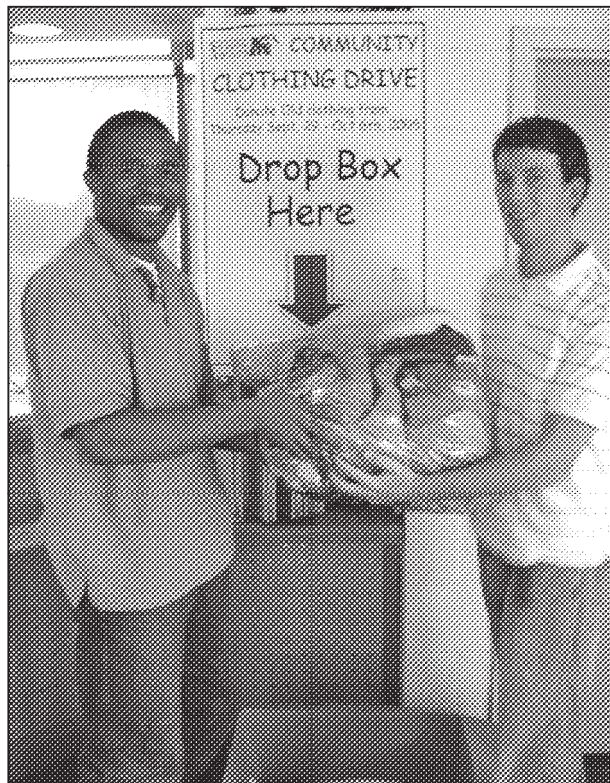
Prerequisite: completion of all required 5000-level SMBA courses and permission of MBA Director and instructor.

Intended to supplement or provide an alternative to the regular accounting courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

6699.0 Research Project

Co-requisites: SMBA 6697.1(2) or permission of MBA Director.

Each student is required to complete a project involving the practical application of the research concepts and techniques used in accounting, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.



Emeka Chinabu, SMUSA Vice-President, External Affairs (left) and Adam London, SMUSA Volunteer Coordinator, add some donations to one of the drop-off boxes that were set up on campus as part of SMUSA's Community Clothing Drive.

Anthropology (ANTH)

Chairperson, Professor	S. Davis
Professors	P. Erickson, H. McGee
Associate Professor	S. Walter, A. O'Malley (cross-appt., IDST)
Assistant Professors	S. Tulloch, C. Beaudoin-Lietz (cross-appt, LING), T. Peckmann
Adjunct Professors	J. Dayle, T. Sable, M. Zelenietz

Departmental Policy

1. To obtain a minor in Anthropology, students are required to have completed at least twenty-four (24) credit hours. Six (6) credit hours must be selected from among ANTH 1202.1(.2), 1271.1(.2), 1280.1(.2), or 1290.1(.2). Two of the remaining credits must be from courses at the 2000 level or above.

2. To complete a double concentration in Anthropology, the requirement for the ninety (90) credit hour B.A., students are required to have completed at least twenty-four (24) credit hours in Anthropology. These must include the core program of ANTH 1202.1(.2), 1271.1(.2), 1280.1(.2) and 1290.1(.2). The remaining twelve (12) credit hours must be from courses at the 2000 level or above.

3. To obtain a major in Anthropology, a student is required to have completed at least thirty-six (36) credit hours in anthropology. These must include ANTH 1202.1(.2), 1271.1(.2), 1280.1(.2), and 1290.1(.2). The remaining credits must be at the 2000 level or above. The program of study for majors will be discussed with the student's departmental advisor who will be assigned at the time the major is declared.

4. To obtain an Honors in Anthropology, a student must first be admitted to the honors program and then graduate from the honors program.

a. To be admitted to the program, a student must satisfy pertinent Faculty of Arts requirements and secure an approved statement of a thesis topic (obtain form from the departmental secretary).

b. To graduate from the program, a student must satisfy pertinent Faculty of Arts requirements and complete the equivalent of sixty (60) credit hours in anthropology including the following obligatory core: ANTH 1202.1(.2), 1271.1(.2), 1280.1(.2), 1290.1(.2), 4451.1(.2) or 4452.1(.2), 4501.1(.2) and 4502.1(.2). In addition, students must complete six (6) credit hours at the 2000 level or above in each of the four subfields; archaeology, biological, socio-cultural and linguistics and three (3) credit hours in an upper-level methods course.

c. To graduate from the program, students must also receive minimum grades of B (3.0) in ANTH 4501.1(.2) and 4502.1(.2).

5. The Department offers a prize for excellence in anthropological writing to major or honors students. The prize is named in honor of Prince John Loewenstein, the founder of the Department, and consists of a cash award and certificate of merit. Details for submission of essays may be obtained from the Chairperson of the Department.

Note: The prerequisite for a given course may have a prerequisite itself. It is important to keep this in mind when planning your academic career.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, ANTH 1202.1(.2) was formerly ANT 202.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
ANT 200	ANTH 1200	ANT 361	ANTH 3361
ANT 201	ANTH 2201	ANT 362	ANTH 4362
ANT 202	ANTH 1202	ANT 363	ANTH 4363
ANT 210	ANTH 1210	ANT 365	ANTH 4365
ANT 220	ANTH 1220	ANT 366	ANTH 3366
ANT 221	ANTH 1221	ANT 370	ANTH 3370
ANT 222	ANTH 1222	ANT 371	ANTH 3371
ANT 230	ANTH 1230	ANT 372	ANTH 3372
ANT 251	ANTH 1251	ANT 373	ANTH 3373
ANT 260	ANTH 1260	ANT 374	ANTH 3374
ANT 270	ANTH 1270	ANT 375	ANTH 3375
ANT 271	ANTH 1271	New Course	ANTH 3376
ANT 272	ANTH 1272	New Course	ANTH 3377
New Course	ANTH 2273	ANT 379	ANTH 2379
ANT 280	ANTH 1280	ANT 380	ANTH 3380
New Course	ANTH 1282	ANT 381	ANTH 3381
ANT 290	ANTH 1290	ANT 382	ANTH 3382
New Course	ANTH 2401	ANT 390	ANTH 2390

ANT 300	ANTH 3300	ANT 391	ANTH 2391
ANT 301	ANTH 3301	ANT 392	ANTH 2392
ANT 302	ANTH 3302	ANT 394	ANTH 3394
ANT 304	ANTH 3304	ANT 375	ANTH 3375
ANT 305	ANTH 3305	ANT 395	ANTH 3395
ANT 306	ANTH 4306	ANT 396	ANTH 3396
ANT 309	ANTH 3309	ANT 399	ANTH 3399
ANT 310	ANTH 3310	ANT 410	ANTH 4410
ANT 311	ANTH 2311	ANT 411	ANTH 4411
ANT 315	ANTH 3315	ANT 412	ANTH 3412
ANT 316	ANTH 2316	ANT 421	ANTH 2421
ANT 317	ANTH 2317	ANT 430	ANTH 3430
ANT 319	ANTH 3319	ANT 440	ANTH 3440
ANT 320	ANTH 2320	ANT 445	ANTH 3445
ANT 321	ANTH 2321	ANT 450	ANTH 4450
ANT 322	ANTH 2322	ANT 451	ANTH 4451
ANT 323	ANTH 2323	ANT 452	ANTH 4452
ANT 324	ANTH 2324	ANT 460	ANTH 4460
ANT 325	ANTH 2325	ANT 461	ANTH 4461
ANT 326	ANTH 2326	ANT 462	ANTH 4462
ANT 327	ANTH 2327	ANT 463	ANTH 4463
ANT 329	ANTH 2329	ANT 464	ANTH 4464
ANT 330	ANTH 2330	ANT 465	ANTH 4465
ANT 331	ANTH 2331	ANT 466	ANTH 4466
ANT 332	ANTH 2332	ANT 470	ANTH 3470
ANT 333	ANTH 3333	ANT 471	ANTH 3471
ANT 334	ANTH 3334	ANT 472	ANTH 3472
ANT 335	ANTH 3335	ANT 473	ANTH 4473
ANT 338	ANTH 3338	New Course	ANTH 4474
ANT 339	ANTH 3339	ANT 475	ANTH 4475
ANT 340	ANTH 3340	ANT 476	ANTH 4476
ANT 341	ANTH 2341	ANT 479	ANTH 4479
ANT 342	ANTH 2342	ANT 480	ANTH 4480
ANT 345	ANTH 3345	ANT 481	ANTH 4481
ANT 349	ANTH 3349	ANT 491	ANTH 4491
ANT 350	ANTH 3350	ANT 492	ANTH 4492
ANT 351	ANTH 3351	ANT 499	ANTH 4499
ANT 352	ANTH 3352	ANT 500	ANTH 4500
ANT 353	ANTH 3353	ANT 501	ANTH 4501
ANT 354	ANTH 3354	ANT 502	ANTH 4502
ANT 360	ANTH 4360	ANT 599	ANTH 4599

1202.1(2) Introduction to Ethnology and Social Anthropology

An introduction to the comparative study of the cultures and social systems of people from diverse cultures. Economics, politics, kinship, family, religion, and the like will be examined as will the expressive aspects of culture such as the arts, myth, and ritual.

1271.1(2) Introduction to Archaeology

An introduction to archaeology and its contribution to an understanding of the development of culture. The course will investigate the history of the discipline and the development of techniques and principles used by archaeologists throughout the world.

1280.1(2) Introduction to Biological Anthropology

A survey of human biological evolution. The principal topics are evolutionary theory, human genetics, the nature of race, living primates, and the fossil record of humanity.

1282.1(2) Introduction to Forensic Anthropology

This course is an introduction to the multidisciplinary nature of forensic anthropology. It explores the myths and realities of the search for human remains in crime scenes, what should be expected from a forensic anthropology expert in the courtroom, some of the challenges in mass fatality incident responses, and what a student should consider if they want to pursue a career in forensic anthropology.

1290.1(2) Introduction to Human Communication

This course provides students with some of the basic concepts for understanding language as used by humans. Topics to be considered include, but are not limited to, the nature of language and communication, the organization of communicative behavior, and linguistic diversity. The emergence of ethno-linguistics as a sub discipline of anthropology is also discussed.

2273.1(2) Who Owns the Past?

2311.1(2) Ethnology: Melanesia

2316.1(2) Native Peoples of Canada

2317.1(2) Native Peoples of the United States and Mexico

2323.1(2) Traditional Culture of Micmac and Maliseet Peoples

2324.1(2) Contemporary Culture of Micmac and Maliseet Peoples

2326.1(2) Ethnology: East Asia

Prerequisite: ANTH 1202.1(2) or ASNT 3300.1(2).

A survey of the peoples of East Asia. Special attention is given to the socio-cultural integration of community and the state.

2327.1(2) Ethnology: Japan

Prerequisite: ANTH 1202.1(2) or ASNT 3300.1(2).

An examination of the culture and society of contemporary Japan. Emphasis is placed upon the topics of world view, urban-rural dichotomies, and gender issues.

2341.1(2) Cross-listed as IRST 3340.1(2) and RELS

2341.1(2) The Early Christian Church in Britain and Ireland

2379.1(2) Cross-listed as IRST 2379.1(2) and GEOL 2379.1(2) Irish Material Culture

2391.1(2) Linguistic Anthropology**[LING 2391.1(2)]**

Prerequisite: ANTH 1290.1(2) or three (3) credit hours in LING.

The study of the relationships between linguistics and anthropology through the understanding of the nature of language. Concepts and methods used by anthropologists to analyze linguistic data. Training in the manipulation of linguistic tools in the analysis of languages other than English.

2392.1(2) Language, Culture and Society**[LING 2392.1(2)]****2401.1(2) Anthropology of Work**

Prerequisite: a social science course.

Anthropologies have long been interested in work as an aspect of economy (that is, how productive tasks get accomplished), as a determiner of general social structure (that is, a core institution), and as a theme in the ethos of various societies (that is, work as an ethic). As anthropologists turn their attention to industrial societies (and as other disciplines adopt ethno-geographic methods), the workplace itself is often treated as were small communities in the past. In this course, special attention will be given to methods of data collection in workplaces in complex societies. There will also be an examination of the application of these techniques by scholars, development agencies, commercial enterprises, and political movements.

3302.1(2) Social Organization**3304.1(2) Egalitarian Societies****3305.1(2) Chiefdoms****3309.1(2) Peasant Society and Culture****3316.1 (2) Anthropology of Religion****[RELS 3316.1 (2)]**

Prerequisites: any one of ANTH 1202.1 (.2), RELS 1210.1 (.2), 1211.1 (.2), 1220.1 (.2), 1221.1 (.2), 1251.1 (.2)

This course surveys major developments in the anthropological study of religions. The course will provide a solid theoretical foundation for the field study of contemporary religions.

3329.1(2) The Arctic Culture Area

Prerequisite: six (6) credit hours in ANTH.

This course focuses on the contemporary situation of people in the circumpolar regions of the world with an emphasis on northern Canada. Students are introduced to issues of modernity in the north, including environmental problems, health, culture, development, and power. Specific attention is paid to the evolution of political agreements and Aboriginal autonomy.

3334.1(2) Warfare and Aggression: Anthropological Approaches to Human Conflict

Prerequisite: ANTH 1202.1(2)

The course will examine the nature and structure of human conflict by evaluating anthropological theories of warfare and aggression in light of the case materials available on small-scale societies. In addition, particular attention will be devoted to: 1) the role of racism in human conflict, and 2) a critique of socio-biological theories of human aggression.

3338.1(2) Medicine as Culture**3339.1(2) Medicine in Culture****3351.1(2), 3352.1(2), 3353.1(2), 3354.1(2)****Directed Independent Study in Anthropology****3366.1(2) Worldview: Anthropological Approaches****[RELS 3366.1(2)/4466.1(2)]****3371.1(2) Prehistory of Canada**

Prerequisite: ANTH 1271.1(2).

A survey of the development of prehistoric cultures in Canada. The course uses the archaeological record from the Arctic, sub-Arctic, far Northeast, Northern Plains and West Coast to examine cultural change.

3373.1(2) Fieldwork in Archaeology**3374.1(2) Archaeology Laboratory****3375.1 (.2) World Prehistory****3376.1(2) Archaeology of Death**

Prerequisite: ANTH 1271.1(2).

This course will examine funerary customs within a global framework. Mortuary rituals afford not only insight into the death practices of past societies, they may also provide a basis from which to investigate a broad range of important social and anthropological questions, from social organizations, gender relations, and social inequality, to health and disease, diet, and biological affinity, to the ethical and legal aspects of exhumation and reburial of skeletal remains.

3377.1(2) Urban Archaeology

Prerequisite: ANTH 1271.1(2).

The development of the sub-discipline of urban archaeology in eastern North America will be reviewed. Particular emphasis will be placed on the design and application of urban archaeology management plans. Questions regarding the contribution of archaeological methods, research and analysis to questions of urban phenomena will be addressed.

3381.1(2) Anthropological Genetics

Prerequisite: ANTH 1280.1(.2).

A survey of human genetics, including Mendelian genetics, multifactorial genetics, cytogenetics, and population genetics, intended to enhance understanding of human biological variation.

3382.1(2) Paleoanthropology

Prerequisite: ANTH 1280.1(.2).

A survey of primate and human evolution as revealed in the fossil record.

3395.1(2) Language Use and Issues in Northern Canada [LING 3395.1(.2)]**3396.1(2) Language Use and Issues in Southern Canada**
Prerequisite: ANTH 1290 or three (3) credit hours in LING.

This course examines the two official languages of Canada, English and French, as well as Aboriginal and heritage languages. It will take a descriptive approach at the languages in Canada and their current status, as well as a critical look at the respective place of these languages in our society. Issues related to multilingualism at an individual and societal level are also examined.

3412.1(2) Explanation in Socio-cultural Anthropology**3471.1(2) Forensic Skeletal Identification**

Prerequisite: ANTH 1282.1(.2).

A detailed examination of bones of the human skeleton for forensic purposes.

Note: It is recommended that students who complete ANTH 3471.1(.2) also complete ANTH 3472.1(.2).

3472.1(2) Forensic Skeletal Analysis

Prerequisite: ANTH 3471.1(.2).

A detailed analysis of the human skeleton aimed at creating profiles of decedents and understanding circumstances surrounding their deaths.

4306.1(2) Foraging Adaptations

Prerequisite: ANTH 1202.1(.2).

Humans have spent more of the past as foragers than they have pursuing other subsistence strategies, and foraging has supported a wide range of cultural traditions. This course provides a survey of selected foraging societies that have been described by ethnologists. Both egalitarian and non-egalitarian foragers are discussed, and examples are drawn from a wide range of environments and regions. Consideration is given to theories aimed at accounting for recurring cultural patterns as well as the diversity exhibited by foragers.

4365.1(2) Myth: Anthropological Approaches

[RELS 4365.1(.2)]

4411.1(2) Data Collection in Socio-cultural Anthropology**4451.1(2) Anthropological Theory Before 1900****4452.1(2) Anthropological Theory After 1900**

Prerequisite: ANTH 1202.1(.2), 1271.1(.2), 1280.1(.2), 1290.1(.2).

A history of anthropological theory in the twentieth and early twenty-first centuries.

4462.1(2) Method and Theory in Historical Archaeology

Prerequisite: ANTH 1271.1(.2).

Concepts and methods of historical archaeology, survey techniques, data collection, and laboratory analysis. Suggested for students who intend to take fieldwork courses in archaeology.

4463.1(2) Method and Theory in Precontact Archaeology**4464.1(2) Advanced Fieldwork in Archaeology**

Prerequisite: ANTH 3373.1 (.2)

Students are expected to have knowledge of field techniques used in archaeology. They assist a senior archaeologist in the excavation of an archaeological site, being responsible for all levels of recording. Please consult the Departmental Chairperson regarding availability.

4465.1(2) Advanced Archaeology Laboratory

Prerequisite: ANTH 3374.1 (.2)

Students must have a knowledge of laboratory techniques used in archaeology. They use this knowledge to record, analyze, and report on archaeological specimens. This course may be twinned with ANTH 4464.1 (.2), should the site being excavated produce sufficient archaeological materials.

4466.1(2) Researching Halifax Heritage

Prerequisite: ANTH 1271.1(.2).

An introduction to research techniques and resources, some off-campus, used to assess the historical and archaeological significance of properties in Halifax.

4701.0 Internship in Forensic Anthropology

Prerequisite: ANTH 3471.1 (.2) and ANTH 3472.1 (.2)

Palaeopathology is the study of diseases in past human populations. In this course you will learn how to diagnose simple bone pathologies and in the process gain an understanding of bone physiology and pathology and how these processes work. The main part of the course will focus on the major categories of disease that affect the skeleton. We will also examine how certain diseases have affected human history.

4473.1(.2) Palaeopathology

4474.1(.2) Human Variation

4475.1(.2)-4478.1(.2); 4479.0; 4480.0 Seminar in Anthropology

Prerequisite: six (6) 2000-level university credits.

To be offered in response to expressed student desire for advanced instruction in anthropological topics not covered intensively in substantive course offerings; or to take advantage of expertise of visiting scholars. The format is usually that of a seminar.

Classes 1 hr. and lab 1 1/2 hours a week. 1 semester.

4491.1(.2) Ethnography of Communication [LING 4491.1(.2)]

4492.1(.2) Anthropological Analysis of Linguistic Communities [LING 4492.1(.2)]

Prerequisite: ANTH 1290.1(.2) or three (3) credit hours in LING.

Language as a criterion to delimit group boundaries. The relationships between cultural and linguistic norms. Comparative analysis of linguistic behavior. One case study or geographical area chosen at each offering of the course (either one language in different social contexts, or the interacting ethno-linguistic groups in one region).

Classes 1 hr. and lab 1 1/2 hrs. a week. 1 semester.

4501.1(.2) Honors Thesis Research

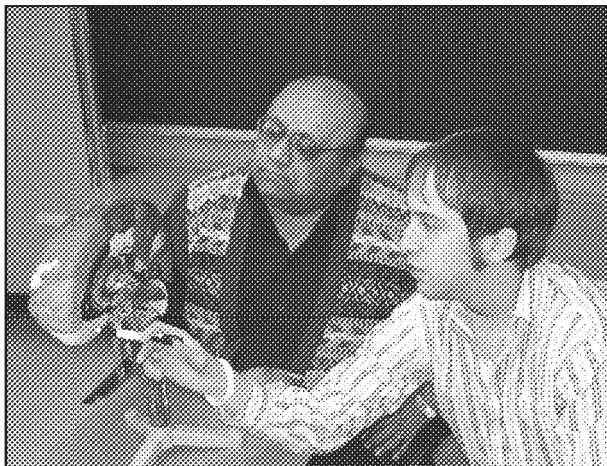
Prerequisite: restricted to students who have been accepted by the department into the honors program.

The application of anthropological theory and methods to a well-defined area of study identified and communicated to the student's honors thesis committee prior to enrolment. Students will work closely with their principal advisors and two other committee members.

4502.1(.2) Honors Thesis Writing

Prerequisite: ANTH 4501.1(.2).

This course examines the communication of the results of anthropological inquiry to the scholarly community through the writing of an honors thesis essay. While students will work closely with their thesis committees, all faculty members of the department will evaluate theses on the basis of content and style.



Psychology student Andrew Comstock (right) examines a brain model with his thesis advisor, Professor Faizal Junus. Comstock will spend the next year working with the Brain Injury of Nova Scotia (BIANS).

Asian Studies (ASNT)

Committee on Asian Studies

J. Morrison, Coordinator	History
C. Beaupre	Modern Languages
P. Bowlby	Religious Studies
H. Das	Management
M. Doucet	Political Science
E. Keeble	Political Science
H. McGee	Anthropology
H. Millward	Geography
H. Ogden	Marketing
P. Secord	Accounting
B. Sewell	History
A. Soucy	Religious Studies
S. Walter	Anthropology
S. Wein	Philosophy

The Asian Studies degree program at Saint Mary's University has been in operation for over twenty years. In that time frame, the Arts and Commerce faculties have played a vital part in helping Saint Mary's students understand Canada's changing role in a global society and especially in defining its relationship with Asia. An informed knowledge of Asian languages and cultures is an essential component to this program and every effort is made to assist students of the program to travel to Asia and experience this vast continent themselves. Students are encouraged to pursue a double major in Asian Studies and a related discipline.

An academic background in Asian Studies will help to prepare students for careers in the diplomatic service, in international trade and industry and in the secondary and university teaching fields.

Saint Mary's University is the only institution in the Atlantic Provinces offering a comprehensive degree-granting program in Asian Studies. In addition to the programs of study described here, your attention is directed to the descriptions of the Certificate of Chinese Studies and the Certificate of Japanese Studies found in the Faculty of Arts (Undergraduate) entry, Section 3 of this *Calendar*.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, ASNT 3300.1(.2) was formerly ASN 300.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY

REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
New Course	ASNT 1105	ASN 311	ASNT 2311
New Course	ASNT 1106	ASN 400	ASNT 4400
ASN 300	ASNT 3300	ASN 401	ASNT 4401
ASN 301	ASNT 3301	ASN 402-	ASNT 4402-
ASN 302	ASNT 3302	ASN 406	ASNT 4406
ASN 303	ASNT 2303	ASN 407	ASNT 3407
ASN 304	ASNT 3304	ASN 408	ASNT 3408
ASN 305	ASNT 2305	ASN 410	ASNT 4410
ASN 306-	ASNT 3306-	ASN 450	ASNT 3450
ASN 309	ASNT 3309	ASN 490-	ASNT 4490-
ASN 310	ASNT 3310	ASN 499	ASNT 4499
		ASN 500	ASNT 4500

Regulations for Majors

Although it is possible to complete a major in Asian Studies with ninety (90) credit hours, extra time and additional credits will often be desirable and necessary. Facility in an Asian language is important and possible participation in cultural exchange programs in Asia will provide a deeper understanding of Asian societies. Students intending to complete a major in Asian Studies are required to complete forty-two (42) credit hours. These forty-two (42) credit hours must include the following with a minimum of twenty-four (24) credit hours at the 2000 level or above.

- twelve (12) consecutive Asian language credit hours (Introductory and Intermediate).
- six (6) credit hours in the following: HIST 1222.1(.2); HIST 1223.1(.2); RELS 1220.1(.2) or RELS 1221.1(.2)
- ASNT 3300.1(.2) and ASNT 4400.1(.2).
- eighteen (18) additional core credit hours from at least two different disciplines other than languages. The list of core courses is given below.

For first year students interested in completing an honours or major in Asian Studies, the following introductory courses will meet three of the four General Arts requirements, namely:

Requirement 3b

ARBC 1100.0	Introductory Arabic
JPNS 1100.0	Introductory Japanese
CHNS 1100.0	Introductory Modern Chinese

Requirement 3c

ASNT 1105.1(.2)	Introduction to Chinese Culture
ASNT 1106.1(.2)	Introduction to Japanese Culture
HIST 1208.1(.2)	Global History: 1450 to the Present
HIST 1222.1(.2)	History of Asia: East Asia
HIST 1223.1(.2)	History of Asia: South and Southeast Asia
RELS 1220.1(.2)	Introduction to Comparative Religion I
RELS 1221.1(.2)	Introduction to Comparative Religion II

Requirement 3d

Six (6) credit hours from:

ANTH 1202.1(.2)	Introduction to Ethnology and Social Anthropology
ANTH 1280.1(.2)	Introduction to Biological Anthropology
ANTH 1290.1(.2)	Introduction to Human Communication
ECON 1201.1(.2)	Principles of Economics: Micro
ECON 1202.1(.2)	Principles of Economics: Macro
GEOG 1203.1(.2)	Physical Geography: Global Patterns
GEOG 1204.1(.2)	Demographics and Culture
GEOG 1213.1(.2)	Physical Geography: Local and Regional Patterns
GEOG 2214.1(.2)	Environment and Livelihood
POLI 1200.0	Introductory Political Science
SOCI 1210.1(.2)	Introductory Sociology
SOCI 1212.1(.2)	Understanding Society

Regulations for Honours

1. Admission to and continuance in the honours program in Asian Studies follows the general regulations of the Faculty of Arts, namely regulations 11, 12, and 13.
2. Students seeking an honours degree in Asian Studies are required to pursue a major program in one of the departments offering Asian Studies courses. See Faculty of Arts regulation 14.
3. Students in either an honours or double honours program in Asian Studies must complete at least sixty (60) credit hours and satisfy the following requirements:
 - a. at least eighteen (18) credit hours in Asian languages, six (6) of which must be at the intermediate level;
 - b. six (6) credit hours of the following: HIST 1222.1(.2); HIST 1223.1(.2); RELS 1220.1(.2) or RELS 1221.1(.2).
 - c. core courses ASNT 3300.1(.2) and ASNT 4400.1(.2);
 - d. at least six (6) Asian Studies credit hours from the following departments: Anthropology, Economics, Geography, Political Science or Sociology;
 - e. An honours thesis (ASNT 4500.0) will be prepared during the final year of study in the program. The topic must be approved by the Asian Studies Committee and the

thesis will be supervised and graded by three faculty members chosen by the Asian Studies Committee;

- f. Annual approval of their program of study by the Coordinator of the Asian Studies Committee.

Regulations for Minors

Students majoring in another academic discipline may obtain a minor in Asian Studies by completing the equivalent of twenty-four (24) credit hours approved for the program:

These must be:

- (a) ARBC 1100.0; CHNS 1100.0; or JPNS 1100.0;
- (b) ASNT 3300.1(.2) and ASNT 4400.1(.2); and
- (c) twelve (12) credit hours from any academic discipline regarded as part of the Asian Studies Program (see below).

Minor in Chinese Studies

Students in the undergraduate Arts program who are not Asian Studies majors can complete a minor in Chinese Studies by completing the following courses: CHNS 1100.0; ASNT 3300.1(.2) and 4400.1(.2); and twelve (12) other credit hours on China in at least two different disciplines taken from the following list: ANTH 2326.1(.2); ASNT 2305.1(.2); ASNT 3310.1(.2); ASNT 3450.0; CHNS 2200.0; HIST 1222.1(.2); HIST 2382.1(.2); HIST 2383.1(.2); HIST 5511.0; RELS 3327.1(.2); RELS 2345.1(.2).

Transfer credits from other academic institutions may be recognized.

Minor in Japanese Studies

Students in the undergraduate Arts program who are not Asian Studies majors can complete a minor in Japanese Studies by completing the following courses: JPNS 1100.0; ASNT 3300.1(.2) and 4400.1(.2) and twelve (12) other credit hours on Japan in at least two different disciplines taken from the following list: ANTH 2326.1(.2); ANTH 2327.1(.2); ASNT 2303.1(.2); ASNT 3302.1(.2); ASNT 4410.1(.2); GEOG 3360.1(.2); HIST 1222.1(.2); HIST 2354.1(.2); HIST 2355.1(.2); HIST 5511.0; JPNS 2200.0; RELS 2327.1(.2); RELS 2340.1(.2).

Transfer credits from other academic institutions may be recognized.

Information concerning the requirements for the Certificate of Chinese Studies Program and also the Certificate of Japanese Studies Program are found in the Faculty of Arts (Undergraduate) portion of Section 3 of this *Calendar* under Modern Languages & Classics.

Regulation for Concentrations

To obtain concentrations in Asian Studies, Chinese Studies, or Japanese Studies in partial fulfillment of the B.A. General Degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours, a minimum of

twenty-four (24) credit hours in one of these three subject areas is required; also a minimum cumulative grade point average of 2.00. Further details are available from the coordinator.

Dual Degree Program

Since it is possible to obtain two undergraduate degrees from Saint Mary's University, for Commerce students it may be very attractive to combine a degree in their field with a major in Asian Studies, especially in light of the interest which the Canadian federal and provincial governments and private industries have in developing trade with the Pacific Rim countries. It is relatively easy to combine Commerce and Asian Studies if Commerce students select their non-commerce and free electives carefully. The second degree can be obtained in a year or less in addition to the normal time requirement for a Commerce degree. For more information please contact the Dean of Arts, Dean of Commerce, or the Coordinator of Asian Studies, and also consult the material at the conclusion of the Faculty of Arts entry in Section 3 of this *Calendar*.

Anthropology (ANTH)

- 2326.1(.2) Ethnology: East Asia
2327.1(.2) Ethnology: Japan

Asian Studies (ASNT)

- 1105.1(.2) Introduction to Chinese Culture
1106.1(.2) Introduction to Japanese Culture
2303.1(.2) Contemporary Japan: Institutions and Culture
2305.1(.2) Contemporary China: Institutions and Culture
2311.1(.2) Southeast Asian Popular Culture
3300.1(.2) Multidisciplinary Study of Asia
3301.0; 3304.1(.2)-
3306.1(.2) Selected Topics in Asian Studies
3302.1(.2) Japan in Film and Literature
3310.1(.2) Chinese Film and Literature
3407.0 Study Abroad: Japan
3408.0 Study Abroad: China
3450.0 China, Eternal and Transforming: Travel and Study
4400.1(.2) Seminar in Asian Studies
4401.0; 4402.1(.2)-
4406.1(.2) Selected Topics in Asian Studies
4410.1(.2) Special Topics on Japan
4490.1(.2)-4499.1(.2) Directed Study
4500.0 Honours Thesis

Geography (GEOG)

- 3360.1(.2) Geography of Japan

History (HIST)

- 1222.1(.2) History of Asia: East Asia
1223.1(.2) History of Asia: South and Southeast Asia
2354.1(.2) Japan Before 1800
2358.1(.2) Mughal to Modern India
2363.1(.2) Asian Crossroads: Southeast Asia 1500-1900
2364.1(.2) Modern Southeast Asia
2368.1(.2) Japan Since 1800
2372.1(.2) China Since 1800

- 2381.1 (.2) China Before 1800
2383.1(.2) China Since 1947
3394.1(.2) The Emergence of Modern Korea
5511.0 Seminar in East Asian History

Modern Languages and Classics – Arabic (ARBC)

- 1100.0 Introduction to Arabic
2200.0 Intermediate Arabic

Modern Languages and Classics – Chinese (CHNS)

- 1100.0 Introductory Modern Chinese
2200.0 Intermediate Modern Chinese
3300.1(.2) Advanced Chinese I
3301.1(.2) Advanced Chinese II

Modern Languages and Classics – Japanese (JPNS)

- 1100.0 Introductory Japanese
2200.0 Intermediate Japanese
3300.1(.2) Advanced Japanese I
3301.1(.2) Advanced Japanese II

Religious Studies (RELS)

- 1220.1(.2)/1221.1(.2) Introduction to Comparative Religion I & II
2323.1(.2) The Islamic Religious Tradition
2325.1(.2) Myth and Story
2326.1(.2) The Hindu Religious Tradition
2327.1(.2) The Buddhist Religious Tradition
2340.1(.2) Japanese Religious Traditions
3341.1(.2) Violence and Non-Violence: East and West
2345.1(.2) Chinese Religious Traditions
3359.1(.2) The Buddhist Path
3370.1(.2) Introduction to Qur'an
3371.1(.2) Life of Muhammed

Sociology (SOCl)

- 4447.1(.2) Work and the Empowerment of Women in India

Asian Studies Courses

1105.1(.2) Introduction to Chinese Culture

This course surveys aspects of Chinese culture in their historical and social contexts. Topics will be selected by the instructor but may include folklore, literature language and material culture. No previous study of China or the Chinese language is required.

1106.1(.2) Introduction to Japanese Culture

This course surveys aspects of Japanese culture in their historical and social contexts. Topics will be selected by the instructor but may include folklore, literature, language and material culture. No previous study of Japan or the Japanese language is required.

2303.1(.2) Contemporary Japan: Institutions and Culture

This course will introduce modern Japan, accentuating the institutions of family, school, and workplace. Emphasis will be placed on values, social participation, and the individual's position within the context of contemporary Japanese society. No knowledge of the Japanese language is required.

2305.1(2) Contemporary China: Institutions and Culture

This course will introduce modern China, accentuating the institutions of family, school, and workplace. Emphasis will be placed on values, socio-cultural practices, and the individual's position within contemporary Chinese society. No knowledge of the Chinese language is required.

2311.1(2) Southeast Asian Popular Culture

This course will study the development of fiction and film in the rich and varied cultural traditions of several Southeast Asian countries, namely Indonesia, Malaysia, the Philippines, Thailand and Vietnam. Other aspects of popular culture such as drama, music and art will be considered as well.

3300.1(2) Multidisciplinary Study of Asia

This half course will introduce students to the study of Asia from a multidisciplinary perspective. Using various disciplines in the humanities, social science and commerce fields, students will review how various disciplines intersect to create a fuller understanding of Asia.

3301.0; 3304.1(2); 3306.1(2)-3309.1(2) Selected Topics in Asian Studies

The subject matter of these courses will be announced from time to time. They will cover various aspects of Asian Studies and will be multi-disciplinary in nature. The topics to be examined will be determined by the instructor and/or Department.

3302.1(2) Japan in Film and Literature

This course will explore the cultural representation of traditional and modern Japanese culture through film and literature. Focus will be on major works of Japanese literature, ranging from pre-modern poetry to modern fiction, as well as their cinematic adaptations. All selected works of literature are in English translation. No knowledge of the Japanese language is required.

3310.1(2) Chinese Film and Literature

This course will explore the rich Chinese culture through representative major works of modern literature, as well as new film and contemporary art in China and Taiwan. Major themes to be considered include the family, the changing role of women, Western influences, modernization, and national identity. All selected works of literature are in English translation. No knowledge of the Chinese language is required.

3407.0 Study Abroad: Japan

Prerequisite: JPNS 1100.0.

This course is available to all students who participate in Saint Mary's University's study abroad program in Japanese. Evaluation will be based on short-term cultural courses held in Japan and a written assignment to be submitted to the Asian Studies Coordinator upon completion of the overseas study.

3408.0 Study Abroad: China

Prerequisite: CHNS 1100.0.

This course is available to all students who participate in Saint Mary's University's study abroad program in China. Evaluation will be based on short-term cultural courses held in China and a written assignment to be submitted to the Asian Studies Coordinator upon completion of the overseas study.

3450.0 China, Eternal and Transforming: Travel and Study

Prerequisite: permission of ASNT Coordinator.

This course takes place between May and July in China with guided tours of urban centers and cultural sites. Students will be accompanied by a faculty member from Saint Mary's, and on-site instruction will be provided. Subjects taught will cover a broad range of topics on Chinese language, history, and culture. The course is offered contingent upon sufficient enrolment.

Time in China is approximately four weeks.

Six weeks full time.

4400.1(2) Seminar in Asian Studies

Prerequisite: ASNT 3300.1(2) and twelve (12) core credit hours in Asian Studies.

This half course will provide an opportunity for Asian Studies students to integrate their knowledge of Asia in a multidisciplinary fashion. This course may include case studies, specific area studies and comparative approaches to regions in Asia. Both students and faculty involved in the Asian Studies program will participate in this course.

4401.0; 4402.1(2)-4406.1(2) Selected Topics in Asian Studies

The subject matter of these courses will be announced from time to time. They will cover various aspects of Asian Studies and will be multi-disciplinary in nature. The topics to be examined will be determined by the instructor and/or Department.

4410.1(2) Special Topics on Japan

Prerequisite: six (6) Asian Studies credit hours or permission of instructor.

Special Topics on Japan is a seminar to be taught by a Japanese specialist invited to Saint Mary's University.

4490.1(2)-4499.1(2) Directed Study

Prerequisite: permission of ASNT Coordinator and instructor.

Intended to supplement or provide an alternative to the regular courses in Asian Studies in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

Classes: Tutorial and independent study. 1 semester.

4500.0 Honours Thesis

Prerequisite: admission to final year of the honours program.

Asian Studies students are required to submit and defend a thesis to be selected and prepared in conjunction with a faculty advisor.

Astronomy and Physics (ASTR and PHYS)

Chairperson, Professor	M. Butler
Professors	D. Clarke, R. Deupree, D. Guenther, G. Mitchell, D. Turner, G. Welch
Associate Professors	J. Hahn, A. Sarty
Assistant Professor	R. Austin, I. Short
Observatory Director	G. Welch
Undergraduate Co-ordinator	D. Clarke
Graduate Co-ordinator	I. Short
Adjunct Professors	P. Bennett, P. Noerdlinger
Emeritus Professor	W. Lonc

Astronomy (ASTR)

Astronomy is an ancient science, with some of its first practitioners among the Minoans, Aztecs, Egyptians, and early Chinese. Throughout its long history, the discipline has gone through many revolutions having benefited from some of the greatest minds who ever lived: Aristotle, Copernicus, Galileo, Newton, and Einstein. In the late 1800's, George Hale proclaimed astrophysics – the joining of traditional astronomical techniques with the mathematical rigour of physics – as “the new astronomy for the twentieth century” and, within a generation, few astronomers could complete their training without a full background in physics. Today, astronomers design highly engineered observatories and detectors are cognizant of chemistry and biochemistry as more and more complex molecules such as amino acids are detected in the cosmos, and must be competent mathematicians, physicists, and computer scientists to understand and interpret what is being observed. Of all pure scientists, astrophysicists are among the best qualified to pursue a wide variety of careers in both science and education.

Formal introductory courses in Astronomy were introduced to the Saint Mary's curriculum by Father Michael J. Burke-Gaffney S.J. in 1957. Fifteen years later, Burke-Gaffney convinced the University to build a small observatory on the roof of the 23-story Loyola residence to be used for both class activities and public tours. In recognition of Burke-Gaffney's seminal role in establishing Saint Mary's as the regional centre for astronomy, the observatory was named in his honour.

Between 1971 and 1974, three astronomers joined the Department of Physics who, in 1974, formed a separate department and began offering an M.Sc. in Astronomy. This was the University's first Master's programme in science as well as the first Astronomy programme in the region. In 1989 and in cooperation with the Department of Physics, the Department of Astronomy began offering undergraduate programmes in astrophysics to complement the M.Sc. in Astronomy and the B.Sc. in physics.

In 1993, the independent Departments of Physics and Astronomy were combined into a single department with eight faculty members and three staff. Given the University's status as the only institution in Atlantic Canada

to offer full programmes in Astronomy at either the undergraduate or graduate levels, the new department was called the Department of Astronomy and Physics. Building upon this strength, Saint Mary's made the strategic decision to allocate two of its six Canada Research Chairs to Astronomy and the Department used this opportunity to found the Institute for Computational Astrophysics (ICA) in 2001. With the addition of an NSERC University Research Fellow, the Department now has eleven full-time faculty bringing more than \$350,000 annually to the University in external research funds.

In 2002, approval was granted to the University to offer a Ph.D. programme in Astronomy, making it the first science Ph.D. programme offered in Nova Scotia outside Dalhousie. With its emphasis on research as well as teaching, its status of offering the only full complement of university astronomy degrees east of Toronto, and its small, intimate, urban setting in one of the most charming cities on the continent, Saint Mary's University is truly a unique place to study astronomy and physics at any level.

Undergraduate Courses

The Department offers courses in Astronomy, both undergraduate and graduate, to support the three degree programmes offered in Astronomy. This segment lists only the undergraduate courses; the graduate course descriptions may be found in section 3. Note that Astrophysics honours students are required to include at least one graduate level course in their programme.

In addition, the Department offers introductory astronomy courses for the non-specialist, and suitable for science electives for non-science majors, or for general electives for science majors. These include ASTR 1215, 1216, and 1217.

Note: With renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, ASTR 1205.1(.2) was formerly AST 205.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
AST 205	ASTR 1205	AST 609	ASTR 5609
AST 206	ASTR 1206	AST 611	ASTR 6611
AST 215	ASTR 1215	AST 614	ASTR 5614
AST 216	ASTR 1216	AST 615	ASTR 6615
AST 217	ASTR 1217	AST 616	ASTR 6616
AST 312	ASTR 2312	AST 619	ASTR 6619
AST 313	ASTR 2313	AST 620	ASTR 6620
AST 412	ASTR 3412	AST 622	ASTR 5622
AST 413	ASTR 3413	AST 635	ASTR 5635
AST 435	ASTR 4435	AST 637	ASTR 6637
AST 445	ASTR 4445	AST 695	ASTR 5695
AST 602	ASTR 5602	AST 696	ASTR 6696
AST 604	ASTR 5604	AST 697	ASTR 5697
AST 607	ASTR 6607	AST 698	ASTR 6698
AST 608	ASTR 6608	AST 699	ASTR 8699

1205.1.(2) General Astronomy I

Prerequisite: Nova Scotia Grade 12 Physics and Nova Scotia Grade 12 Math Pre-calculus.

This course provides a mathematics-based and physics-based introduction to general and solar system astronomy for students specializing in physical sciences. The course, in conjunction with ASTR 1206.1.(2), also provides a comprehensive introduction to astronomy for Astrophysics (ASPH) majors. The topics presented include: the celestial sphere and objects of the night sky, the development of astronomy as a science, the orbits of Earth and other planets, time measurement, eclipses and their prediction, telescopes and astronomical instruments, and the solar system. Homework consists of a mix of laboratory and observing exercises completed outside of regular class times, as well as regular assignments. Students have access to the Burke-Gaffney Observatory on campus and Department equipment for exercises involving the use of a telescope.

Classes 3 hrs. and lab/telescope observing 1 hr. a week. 1 semester.

1206.1.(2) General Astronomy II

Prerequisite: Nova Scotia Grade 12 Physics and Nova Scotia Grade 12 Math Pre-calculus.

This course provides a mathematics-based and physics-based introduction to stellar, galactic, and extragalactic astronomy for students specializing in the physical sciences. This course, in conjunction with ASTR 1205.1.(2), also provides a comprehensive introduction to astronomy for Astrophysics (ASPH) majors. The topics presented include the origin of the solar system and other stellar systems, the Sun as a star, properties of stars and star clusters, gaseous nebulae, white dwarfs and stellar evolution, supernovae and pulsars, black holes and X-ray binaries, the structure of our Milky Way Galaxy, the properties of external galaxies and quasars, and the nature of the universe. Homework consists of a mix of laboratory and observing exercises completed outside of regular class time, as well as regular assignments. Students have access to Burke-Gaffney Observatory on campus and Department equipment for exercises involving the use of a telescope.

Classes 3 hrs. and lab/telescope observing 1 hr. a week. 1 semester.

1215.1.(2) The Sky and Planets

This course provides an introduction to general astronomy for students who are not science majors and who have little background in science and mathematics. The topics presented include: an introduction to the night sky and where to locate objects of interest, the motions and phases of the Moon and planets, timekeeping and the calendar, the historical development of astronomy as a science, eclipses of the Sun and the Moon, telescopes and instruments for detecting and measuring light from celestial objects, and the planets and other members of our solar system. Homework exercises consist of laboratory and observing exercises that are done outside of regular class times. Students have access to the Burke-Gaffney Observatory on campus for exercises involving the use of a telescope.

Classes 3 hrs. and lab/telescope observing 1 hr. a week. 1 semester.

1216.1.(2) Stars and Galaxies

This course provides an introduction to general astronomy for students who are not science majors and who have little background in science and mathematics. Although the topics presented follow sequentially those of ASTR 1215.1.(2), the course may be taken separately or concurrently. The topics presented include: the Sun as a star, the properties of stars and star clusters, the evolution of stars, gaseous nebulae, the properties of our Galaxy, other galaxies beyond the Milky Way, and quasars, active galaxies, and the universe. Homework exercises consist of laboratory and observing exercises that are done outside of regular class times. Students have access to the campus Burke-Gaffney Observatory for exercises involving the use of a telescope.

Classes 3 hrs. and lab/telescope observing 1 hr. a week. 1 semester.

1217.1.(2) Life in the Universe

The possibility that life might exist elsewhere in the universe has fascinated human beings ever since our ancestors first gazed into the starry skies. Could life also have arisen on other worlds, or is the Earth unique? Are there other intelligent civilizations in the cosmos with which we might someday make contact? In this course the question of extraterrestrial life is considered from astronomical, biological and sociological perspectives. Topics discussed include planets, stars and galaxies, our place in the universe, the origin and evolution of life on Earth, searches for extraterrestrial life, the Anthropic Principle, UFOs, and more.

2312.1.(2) Foundations of Astrophysics

Prerequisite: ASTR 1205.1.(2) and 1206.1.(2); MATH 1211.1.(2), PHY 1211.1.(2).

This course is concerned primarily with directly observable quantities: the positions of stars in the sky, their motions, and the light they emit. Students will become involved with one or more observing projects using the Burke-Gaffney Observatory's 40-cm telescope. Class discussion will begin with the celestial sphere, time in astronomy, and astronomical catalogues. Topics in celestial mechanics will include the two-body problem, and the dynamic characteristics of star clusters. Properties of the continuous spectra of stars will be reviewed, and this will lead to a discussion of the formation of emission and absorption lines in the Bohr model. The course will conclude by examining the operation of astronomical telescopes.

Classes 3 hrs. a week and telescope observing session.

2313.1.(2) Properties of Stars

Prerequisite: ASTR 2312.1.(2).

This course reviews one of the major scientific achievements of the 20th Century, the quantitative understanding of the nature of the stars. This course begins with a discussion of binary stars and their use in determining stellar properties, and is followed by a discussion of spectral classification, and its interpretation, using the Boltzmann and Saha equations. The characteristics of radiative transfer will be discussed as they relate to modelling the atmospheres of stars. The equations of stellar structure will be derived, and these will be used to discuss the interiors of hydrogen burning stars, with special attention given to the Sun.

3412.1.(2) Interstellar Matter and Stellar Evolution

Prerequisite: ASTR 2313.1.(2).

The course begins by examining the physical processes within neutral and ionized clouds and is followed by a discussion of star formation. Concepts introduced in ASTR 2313.1.(2) are used to follow the evolution of stars of various initial mass, elucidating their internal structure and energy production. Finally, attention will turn to the physical properties of stellar remnants; white dwarfs and neutron stars.

3413.1.(2) Galaxies and Cosmology

Prerequisite: ASTR 2313.1.(2).

The observed properties of our Milky Way galaxy and their theoretical interpretation will be the initial focus of this course. Subjects to be examined will include the kinematic properties of nearby stars, the nature of galactic rotation, the cause of spiral structure, and the formation of the galaxy. The observed features of other galaxies will be summarized, with emphasis on how these features may have arisen through evolutionary processes which include galaxy interactions. Attention will then shift to the physical properties and evolution of galaxy clusters, and to the large scale structure of our universe. This will lead to a discussion of modern cosmological models and recent observational tests of the models.

4435.1.(2) Data Analysis in Astronomy

Prerequisite: ASTR 2312.1.(2).

The goal of this course is to instruct the student in the analysis of real astronomical data. Following a general introduction to errors and data reduction, the bulk of the course will consist of the use of computers in data reduction. Student projects will include the analysis of images and spectral line maps.

4445.1.(2) Solar System Astronomy

Prerequisite: ASTR 1206.1.(2) and PHYS 1211.1.(2).

Topics covered include fundamental data for planets and satellites, orbital mechanics, rocks and minerals, age dating of rocks by radioactive decay, meteorites and tektites, comets, asteroids and remote sensing techniques, cosmogony and the early history of the solar system, planetary and satellite interiors, surfaces and atmospheres, and comparative planetology.

Graduate Courses

While the courses at the 5000 level and above are intended primarily for graduate students in astronomy, fourth year students in either the major or honours programs may enrol in these courses with the permission of the Department if the other requirements for the degree are satisfied. Interested undergraduate students should consult the Chairperson or Undergraduate Coordinator before enrolling in these courses.

Courses are classified as either core or elective. Core courses are offered every other year and are designated above with an * in front of each course number/title.

***5602.1.(2) Galactic Astronomy**

This course describes the contents and structure of the Milky Way Galaxy. Topics covered include: historical highlights, reference frames and stellar astronomy, spectral classification, photometric systems, luminosity calibrations, clusters and associations, star counts and stellar density functions, the luminosity function, chemical composition variations in the Galaxy, solar motion, statistical and secular parallaxes, kinematic groups, galactic rotation and structure, spiral arms, and an introduction to galactic dynamics.

***5604.1(2) The Interstellar Medium**

Topics covered include: the phases of the interstellar medium, neutral clouds, ionized hydrogen regions, interstellar molecules, dust grains, shocks, gravitational collapse, bipolar outflows, and accretion disks.

5607.1(2) Binary and Variable Stars

This course is devoted to the study of both binary stars and variable stars. Topics covered under binary stars include: fundamentals of orbital motion and the properties of binary star systems, analytical and practical techniques for studying visual, astrometric, spectroscopic, and eclipsing binaries, the mass-luminosity relation, and classification of close binaries by Roche-lobe filling. Topics covered under variable stars include: light curves and variable star classification, eclipsing variables, pulsating variables and pulsation theory, rotating variables, unique types, and the link between variability and stellar evolutionary stages.

5608.1(2) Selected Topics in Astronomy and Astrophysics

One or more selected specialty areas in astronomy will be examined in greater detail than is possible within the broader scope of other courses. Topics will be chosen by the Department and made available to interested students prior to registration.

Seminar 3 hrs. a week.

***5609.1(2) Galaxies Beyond the Milky Way**

This course summarizes our understanding of nearby galaxies, and of how these galaxies evolved to the objects we see today. A review of our concept of the nebulae introduces the main topics, which include galaxy classification, the nature of the present stellar population and interstellar medium in galaxies, and galaxies as they were in the remote past. The presentation will reflect our growing awareness of the importance of interactions between and among galaxies as an agent of their evolution.

5611.1(2) Directed Readings in Current Literature

A topic of current interest in astronomy will be chosen in consultation with a faculty member. After a thorough study of recent work on the topic, a detailed written report with references will be submitted. Extensive use will be made of available research journals.

***5614.1(2) Stellar Astrophysics I**

An introduction to the theory of stellar atmospheres and interiors. Topics include: the basic equations of stellar structure, nuclear processes, radiative transfer theory, pre-main-sequence evolution, white dwarfs, neutron stars, and black holes.

***5622.1(2) Astrophysical Dynamics**

Topics covered include: the dynamics of the solar system, the origin and evolution of planetary systems, the dynamics and evolution of star clusters, structure and dynamics of our Galaxy, the theory of spiral structure, and the formation and dynamical evolution of galaxies. The course includes an introduction to the dynamical modelling of planetary systems, star clusters, and galaxies.

5635.1(2) Computational Methods

This course introduces students to the details of computational numerical approaches used for solving theoretical problems in astrophysical research. The methods covered are those that students can expect to use for computationally-oriented modelling in theoretical astrophysics. Students should expect to obtain extensive "hands-on" experience and must be able to program in one or more scientific computing languages (preferably FORTRAN or C). Specific approaches discussed include Monte Carlo, finite element, finite difference, and smoothed particle hydrodynamics.

***5638.1(2) Introduction to Stellar Atmospheres**

Prerequisite: graduating standing.

This course introduces the physics of stellar atmospheres and the application of atmospheric modeling to the determination of stellar properties. Topics include radiative transfer, gas phase and atomic physics, atmospheric conservation and equilibrium laws, and spectral line profiles. Computer programming in FORTRAN is required for some assignments.

5690.1(2) Research Methods I

Prerequisite: graduating standing.

This course will introduce students in the M.Sc. Astronomy program to the basic principles and techniques of research. Students will be introduced to a research project (not necessarily related to their thesis topic), and perform the background work required before work on such a project could begin.

5695.1(2) Graduate Seminar I

Articles of interest from the current literature are discussed and critiqued. Students are expected to read articles chosen for discussion, contribute to the critiquing process, and make several presentations during the course. All graduate students must normally enrol in this course in the first year of the Master of Science program.

Seminar 11/2 hrs. a week. 2 semesters.

6615.1(2) Stellar Astrophysics II

An introduction to current topics in stellar astrophysics. Topics include: variable stars and stellar pulsation theory, solar seismology, the solar neutrino problem, globular cluster ages, the theory of stellar rotation, novae, and supernovae.

6616.1(2) Astronomical Instruments and Techniques

This course reviews current methods of collecting and interpreting electromagnetic information from the cosmos. It begins by discussing factors which limit the accuracy of light measurement from extremely energetic gamma radiation to decimetric radio waves. The following discussion of astronomical telescopes and detectors shows how those factors have influenced both hardware design and observing techniques. Special emphasis will be given to radio interferometry.

6619.1.(2) Cosmology

Cosmology-the study of the large-scale structure and evolution of the universe-is one of the most exciting and active fields of astronomy today. This course presents a broad overview of observational and theoretical cosmology. Emphasis is on how basic physics, guided by observations, is used to construct a remarkably successful model of the universe. Topics include the Big Bang model, formation of galaxies and clusters of galaxies, the large-scale structure of the universe, quasars and radio galaxies, and dark matter.

6620.1.(2) Clusters of Galaxies

Clusters of galaxies are the largest gravitationally bound objects in the universe, and their study has yielded valuable insights into such diverse topics as high energy astrophysics, galaxy formation and evolution and cosmology. This course introduces students to clusters of galaxies from both observational and theoretical perspectives. Topics discussed include galaxy populations, dark matters, the intracluster medium, gravitational lensing, and clusters as tracers of the large-scale structure of the universe.

6637.1.(2) Astrophysical Hydrodynamics

An introduction to astrophysical fluids and plasmas. Topics covered include the Boltzmann and moment equations, the Navier-Stokes equations, turbulence, gas dynamics, the Vlasov Equation, and BBGKY hierarchy, basic magnetohydrodynamics, magnetic reconnection and dynamo theory, acoustic and Alfvén waves, instabilities, and shocks. Applications to astrophysical phenomena such as stellar winds, solar and stellar activity cycles, accretion, and jets are discussed.

6690.1.(2) Research Methods II

This course will continue the work begun in ASTR 5690.1.(2). Students will now complete the research proposed as part of ASTR 5690 under the supervision of a faculty member. This research need not be related to their thesis project.

6696.1.(2) Graduate Seminar II

A continuation of ASTR 5695.1.(2) normally taken by graduate students in the second year of the Master of Science program.

Seminar 1 1/2 hrs. a week. 2 semesters.

6698.0 Thesis

Normally taken during the second year of enrolment in the Master of Science program after successful completion of the comprehensive oral examination. The research will be conducted under the supervision of a faculty member.

8699.0 Doctoral Dissertation

The dissertation consists of an original research topic in astronomy undertaken by the student and prepared as a formal written treatment of their research, which is then defended publicly. The course is normally taken during the third through fifth years of enrolment in the doctoral program after successful completion of the Ph.D. written comprehensive examination and approval of the dissertation proposal. The research is conducted under the supervision of

a faculty member. Registration must be approved by a Chair or Supervisor prior to registration and in writing.

Astrophysics (ASPH)

Because all modern-day astronomers are also physicists, no undergraduate degree in Astronomy alone is offered. Instead, the Department offers two programmes in astrophysics. The astrophysics major programme is designed for those who want a solid foundation in modern physics and astronomy, but who are not necessarily planning to continue their education beyond the B.Sc. The astrophysics honours programme is designed for those who intend to continue on to graduate school, and involves the preparation of an honours thesis (PHYS 4500) under the supervision of a faculty advisor in their fourth year. As listed below, these two programmes are identical through the second year meaning students need not commit to the honours programme until the third year of study. Note also, as listed, these programmes conform to the requirements of the Science faculty as outlined in Section 3.

Note that the astrophysics program demands a minimum grade of C in all physics and astronomy courses required for the degree. The program of study must be approved by the Chairperson or the Undergraduate Coordinator.

a. Astrophysics Major**Year 1**

1. ASTR 1205.1.(2) and 1206.1.(2)
2. PHYS 1210.1.(2) and 1211.1.(2)
3. MATH 1210.1.(2) and 1211.1.(2)
4. ENGL 1205.1.(2) and three (3) credit hours in humanities
5. six (6) credit hours in science electives (CHEM 1210.1.(2)/1211.1.(2) recommended)

Year 2

1. ASTR 2312.1.(2) and 2313.1.(2)
2. PHYS 2305.1.(2) and 2306.1.(2)
3. PHYS 2326.1.(2) and 2335.1.(2)
4. PHYS 2355.1.(2) and three (3) credit hours science electives [CSCI 1226.1.(2) or EGNE 1204.1.(2) recommended]
5. MATH 2310.1.(2) and 2311.1.(2) [six (6) credit hours in electives]

Year 3

1. either ASTR 3412.1.(2) or 3413.1.(2); and PHYS 365.1.(2)
2. PHYS 3405.1.(2) and 3417.1.(2)
3. PHYS 3435.1.(2) and either PHYS 3436.1.(2) or 3437.1.(2)
4. three (3) credit hours in electives and either PHYS 3457.1.(2) or three (3) credit hours in electives
5. six (6) credit hours in arts/ECON electives

Year 4

1. three (3) credit hours in science electives; and either ASTR 3412.1(.2) or 3413.1(.2)
2. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
3. six (6) credit hours in electives
4. six (6) credit hours in arts/ECON electives
5. six (6) credit hours in science electives

b. Honours Astrophysics Program**Year 1**

1. ASTR 1205.1(.2) and 1206.1(.2)
2. PHYS 1210.1(.2) and 1211.1(.2)
3. MATH 1210.1(.2) and 1211.1(.2)
4. ENGL 1205.1(.2) and three (3) credit hours in humanities
5. six (6) credit hours science electives (CHEM 1210.1(.2)/1211.1(.2) recommended)

Year 2

1. ASTR 2312.1(.2) and 2313.1(.2)
2. PHYS 2305.1(.2) and 2306.1(.2)
3. PHYS 2326.1(.2) and 2335.1(.2)
4. PHYS 2355.1(.2) and three (3) credit hours in science electives [CSCI 1226.1(.2) or EGNE 1204.1(.2) recommended]
5. MATH 2310.1(.2) and 2311.1(.2) [six (6) credit hours in science electives]

Year 3

1. either ASTR 3412.1(.2) or 3413.1(.2); and PHYS 3465.1(.2)
2. PHYS 3405.1(.2) and 3417.1(.2)
3. PHYS 3435.1(.2) and 3436.1(.2)
4. PHYS 3437.1(.2) and either PHYS 3445.1(.2) or 3457.1(.2)
5. six (6) credit hours in arts/ECON electives

Year 4

1. three (3) credit hours in ASTR at the 5000 level; and either ASTR 3412.1(.2) or 3413.1(.2)
2. PHYS 4466.1(.2); and either PHYS 3445.1(.2) or PHYS 3457.1(.2)
3. three (3) credit hours in science electives and three (3) credit hours from PHYS 4467.1(.2) or above
4. PHYS 4500.0
5. six (6) credit hours in arts/ECON electives

Physics (PHYS)

Physics, the most fundamental of the natural sciences, forms the foundation for all other sciences. Physics deals with motion, the structure of matter, and the underlying forces responsible for that motion and structure. It deals with phenomena at all length and time scales, from the subatomic to the cosmological, from the Planck time to the age of the Universe. With their ability to understand complex phenomena at the most fundamental level, physicists are uniquely qualified to pursue careers and postgraduate studies in a wide variety of fields, including engineering,

computer science and modelling, visualisation, aerospace and aeronautics, financial forecasting, communications, meteorology, the energy and health sectors, astronomy, mathematics, and the list goes on. In short, physicists are trained and hired to think.

Physics has been taught at Saint Mary's at least as far back as 1907, and was first offered as a three-year undergraduate major in 1963 under the watch of the Jesuits, who controlled the University between 1940 and 1970. It was also during the Jesuit period when the Faculty of Science was formally organized (1951, with Father M. J. Burke-Gaffney S.J. as its first designated dean), and when the Department of Physics was first established as a separate academic unit (1963, under its first and only chair for thirty years, Dangey Murty). The four-year honours programme in physics was introduced in 1970. In 1993 the Department of Physics was joined with the Department of Astronomy, and the combined department of eight faculty members expanded its physics offerings to include joint programmes with Mathematics and Chemistry. In 1995, Father William Lonc S.J., one of only two Jesuit priests still on the University faculty, retired from the Department of Astronomy and Physics heralding an end of an era. He remains with the Department as Professor Emeritus.

The Department is now comprised of eleven faculty members and offers three different undergraduate programmes of study in physics. These include a physics concentration suitable for general science students who want a basic understanding of the fundamentals of physics, a physics major suitable for students who want a solid physics education but who do not necessarily intend to practice physics professionally or go on to graduate school, and a physics honours programme for those who require a rigorous training in classical and quantum physics who intend to pursue physics professionally or in postgraduate studies. The major and honours programmes are virtually identical through the third year, and students don't need to commit to the honours programme until the fourth year if they so choose. Among other differences in the final year, the honours programme requires the student to complete an honours thesis (PHYS 4500) under the supervision of a faculty advisor.

In addition to the physics concentration, major, and honours programmes, there are double major physics programmes with mathematics, chemistry, and philosophy at both the major and honours levels consistent with the regulations governing double major and double honours programmes in science and in arts and sciences as outlined in section 3. These suggested programmes of study are suitable for students who want a broader academic background than the pure physics degrees provide with little compromise to the physics content or the content of the other subjects of concentration. All joint programmes leading to a double honours/major B.Sc. degree including the joint programmes leading to a double honours/major B.Sc. degree including the joint programme with Philosophy require only 12 credit hours in science electives outside ASTR/PHYS and MATH 1210/1211.

a. Physics Concentration**Year 1**

PHYS 1210.1(.2) and 1211.1(.2)
 MATH 1210.1(.2) and 1211.1(.2)
 ENGL 1205.1(.2) and three (3) credit hours in humanities
 twelve (12) credit hours from science or humanities

Year 2 and 3

Any eight three (3) credit hour courses [twenty-four (24) credit hours] in physics (in accordance with science degree requirements and subject to prerequisites) from:

PHYS 2305.1(.2) PHYS 2306.1(.2)
 PHYS 2326.1(.2) PHYS 2335.1(.2)
 PHYS 2355.1(.2) PHYS 3405.1(.2)
 PHYS 3417.1(.2) PHYS 3435.1(.2)
 PHYS 3436.1(.2) PHYS 3437.1(.2)
 PHYS 3445.1(.2) PHYS 3446.1(.2)
 PHYS 3457.1(.2) PHYS 3465.1(.2)
 PHYS 4466.1(.2) PHYS 4467.1(.2)
 PHYS 4472.1(.2) PHYS 4473.1(.2)
 PHYS 4474.1(.2)

Additional elective(s) from science and humanities must be chosen to complete the program.

b. Physics Major**Year 1**

1. PHYS 1210.1(.2) and 1211.1(.2)
2. MATH 1210.1(.2) and 1211.1(.2)
3. ENGL 1205.1(.2) and three (3) credit hours in humanities
4. six (6) credit hours in science electives (CHEM 1210.1(.2)/1211.1(.2) recommended)
5. six (6) credit hours in arts/ECON electives

Year 2

1. PHYS 2305.1(.2) and 2306.1(.2)
2. PHYS 2335.1(.2) and 2326.1(.2)
3. PHYS 2355.1(.2) and three (3) credit hours in electives
4. MATH 2310.1(.2) and 2311.1(.2) [six (6) credit hours in science electives]
5. six (6) credit hours in science electives [CSCI 1226.1(.2) or EGNE 1204.1(.2) recommended for three (3) credit hours.]

Year 3

1. PHYS 3405.1(.2) and 3417.1(.2)
2. PHYS 3435.1(.2) and 3436.1(.2)
3. PHYS 3465.1(.2); and either PHYS 3445.1(.2) or 3446.1(.2)
4. PHYS 3437.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
5. six (6) credit hours in arts/ECON electives

Year 4

1. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
2. six (6) credit hours in science electives
3. six (6) credit hours in electives
4. six (6) credit hours in electives
5. six (6) credit hours in electives

c. Physics Honours**Year 1**

1. PHYS 1210.1(.2) and 1211.1(.2)
2. MATH 1210.1(.2) and 1211.1(.2)
3. ENGL 1205.1(.2) and three (3) credit hours in humanities
4. six (6) credit hours in science electives (CHEM 1210.1(.2)/1211.1(.2) recommended)
5. six (6) credit hours in arts/ECON electives

Year 2

1. PHYS 2305.1(.2) and 2306.1(.2)
2. PHYS 2326.1(.2) and 2335.1(.2)
3. PHYS 2355.1(.2) and three (3) credit hours in electives
4. MATH 2310.1(.2) and 2311.1(.2) [six (6) credit hours in science electives]
5. six (6) credit hours in science electives [CSCI 1226.1(.2) or EGNE 1204.1(.2) recommended for three (3) credit hours.]

Year 3

1. PHYS 3405.1(.2) and 3417.1(.2)
2. PHYS 3435.1(.2) and 3436.1(.2)
3. PHYS 3445.1(.2) and 3465.1(.2)
4. PHYS 3437.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
5. six (6) credit hours in arts/ECON electives

Year 4

1. three (3) credit hours in electives; and either PHYS 3457.1(.2) or three (3) credit hours in electives
2. PHYS 3446.1(.2) and 4466.1(.2)
3. six (6) credit hours from PHYS 4467.1(.2), 4472.1(.2), 4473.1(.2), and 4474.1(.2)
4. PHYS 4500.0
5. six (6) credit hours in science electives

d. Double Major in Mathematics and Physics**Year 1**

1. MATH 1210.1(.2) and 1211.1(.2)
2. CSCI 1226.1(.2) and 2227.1(.2)
3. PHYS 1210.1(.2) and 1211.1(.2)
4. ENGL 1205.1(.2) and three (3) credit hours in humanities
5. six (6) credit hours in science electives (CHEM 1210.1(.2)/1211.1(.2) recommended)

Year 2

1. MATH 2310.1(.2) and 2311.1(.2)
2. MATH 2320.1(.2) and 2321.1(.2)
3. PHYS 2305.1(.2) and 2306.1(.2)
4. PHYS 2326.1(.2) and 2355.1(.2)
5. six (6) credit hours in arts/ECON electives

Year 3

1. MATH 4405.1(.2); and either MATH 4436.1(.2) or 3456.1(.2)
2. PHYS 3405.1(.2) and 3417.1(.2)
3. PHYS 3437.1(.2) and 3465.1(.2)
4. three (3) credit hours in electives; and either PHYS 3457.1(.2) or three (3) credit hours in electives
5. six (6) credit hours in science electives

Year 4

1. six (6) credit hours from MATH courses numbered 4404 or above
2. six (6) credit hours from MATH courses numbered 4404 or above
3. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
4. six (6) credit hours in arts/ECON electives
5. six (6) credit hours in electives

e. Honours Mathematics and Physics**Year 1**

1. MATH 1210.1(.2) and 1211.1(.2)
2. CSCI 1226.1(.2) and 2227.1(.2)
3. PHYS 1210.1(.2) and 1211.1(.2)
4. ENGL 1205.1(.2) and three (3) credits in humanities
5. six (6) credit hours in science electives (CHEM 1210.1(.2)/1211.1(.2) recommended)

Year 2

1. MATH 2310.1(.2) and 2311.1(.2)
2. MATH 2320.1(.2) and 2321.1(.2)
3. PHYS 2305.1(.2) and 2306.1(.2)
4. PHYS 2326.1(.2) and 2355.1(.2)
5. six (6) credit hours in arts/ECON electives

Year 3

1. MATH 4405.1(.2) and 4406.1(.2)
2. either MATH 4436.1(.2) and 4437.1(.2); or MATH 3456.1(.2) and 3457.1(.2)
3. PHYS 3405.1(.2) and 3417.1(.2)
4. PHYS 3437.1(.2) and 3465.1(.2)
5. three (3) credits in arts/ECON electives; and either PHYS 3457.1(.2) or three (3) credits in arts/ECON electives

Year 4

1. Two of MATH 4420.1 (.2), 4421.1 (.2), 4441.1 or 4442.1
2. six (6) credit hours from MATH courses numbered 4404 or above
3. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in arts/ECON electives
4. six (6) credit hours from PHYS 4467.1(.2), 4472.1(.2), 4473.1(.2), 4474.1(.2)
5. MATH 4500.0 or PHYS 4500.0

f. Double Major in Chemistry and Physics

Students should be aware of the specific requirements for double majors in chemistry noted in the Chemistry section of the *Calendar*.

Year 1

1. CHEM 1210.1(.2) and 1211.1(.2); or 1212.1(.2) or 1213.1(.2)
2. PHYS 1210.1(.2) and 1211.1(.2)
3. MATH 1210.1(.2) and 1211.1(.2)
4. ENGL 1205.1(.2) and three (3) credit hours in humanities
5. six (6) credit hours in arts/ECON electives

Year 2

1. MATH 3310.1(.2) and 3311.1(.2)
2. either CHEM 3322.1(.2) and 3324.1(.2); or CHEM 2332.1(.2) and 2333.1(.2); or CHEM 2344.1(.2) and 2345.1(.2);
3. PHYS 2305.1(.2) and 2326.1(.2)
4. PHYS 2335.1(.2) and 2355.1(.2)
5. CHEM 2312.1(.2) and three (3) credit hours in electives [CSCI 1226.1(.2) or EGNE 1204.1(.2) recommended]

Year 3

1. CHEM 2313.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
2. CHEM 3322.1(.2) and 3324.1(.2); or CHEM 2332.1(.2) and 2333.1(.2); or CHEM 2344.1(.2) and 2345.1(.2)
3. PHYS 3405.1(.2) and 3465.1(.2)
4. PHYS 3435.1(.2) and either PHYS 3436.1(.2) or 3437.1(.2)
5. six (6) credit hours in arts/ECON electives

Year 4

1. six (6) credit hours from CHEM numbered 4400 or above
2. six (6) credit hours from CHEM numbered 4400 or above
3. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in electives
4. six (6) credit hours in electives
5. six (6) credit hours in science electives

g. Honours Chemistry and Physics

Students should be aware of the specific requirements for double honours in chemistry noted in the Chemistry section of the *Calendar*.

Year 1

1. CHEM 1210.1(.2) and 1211.1(.2); or 1212.1(.2) or 1213.1(.2)
2. PHYS 1210.1(.2) or 1211.1(.2)
3. MATH 1210.1(.2) and 1211.1(.2)
4. ENGL 1205.1(.2) and three (3) credit hours in humanities
5. six (6) credit hours in arts/ECON electives

Year 2

1. MATH 3310.1(.2) and 3311.1(.2) [six (6) credit hours in science electives]
2. CHEM 3322.1(.2) and 3324.1(.2); or CHEM 2332.1(.2) and 2333.1(.2); or CHEM 2344.1(.2) and 2345.1(.2)
3. PHYS 2305.1(.2) and 2326.1(.2)
4. PHYS 2335.1(.2) and 2355.1(.2)
5. CHEM 2312.1(.2) and three (3) credit hours in arts/ECON electives

Year 3

1. CHEM 2313.1(.2) and PHYS 3437.1(.2)
2. CHEM 3322.1(.2) and 3324.1(.2); or CHEM 2332.1(.2) and 2333.1(.2); or CHEM 2344.1(.2) and 2345.1(.2)
3. PHYS 3405.1(.2) and 3465.1(.2)

134 Astronomy and Physics

4. PHYS 3435.1(.2) and 3436.1(.2)
5. PHYS 3445.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in arts/ECON electives

Year 4

1. CHEM 4498.0
2. six (6) credit hours from CHEM numbered 4400 or above
3. six (6) credit hours from CHEM numbered 4400 or above
4. PHYS 4466.1(.2); and either PHYS 3457.1(.2) or three (3) credit hours in arts/ECON electives
5. PHYS 4500.0 or CHEM 4500.0

h. Double Major/Honours Physics and Philosophy (B.Sc)

Year 1

1. PHYS 1210.1 (.2) and 1211.1 (.2)
2. MATH 1210.1 (.2) and 1211.1 (.2)
3. ENGL 1205.1 (.2), PHIL/PHYS 1255.1 (.2)
4. six (6) credit hours in science electives (CHEM 1210.1 (.2)/1211.1 (.2) recommended)
5. PHIL 1200.0 or 1201.0

Year 2

1. PHYS 2305.1 (.2) and 2326.1 (.2)
2. PHYS 2335.1 (.2) and PHIL 2318.1 (.2)
3. PHYS 2355.1 (.2) and three (3) credit hours elective
4. MATH 2310.1 (.2) and 2311.1 (.2) (six (6) credit hours Science electives)
5. three (3) credit hours drawn from courses in the history of philosophy* and three (3) credit hours drawn from courses in contemporary philosophy**

Year 3

1. PHYS 3405.1 (.2) and 3465.1 (.2)
2. PHYS 3435.1 (.2) and PHIL 3448.1 (.2)
3. PHYS 3457.1 (.2) and three (3) credit hours elective
4. six (6) credit hours drawn from courses in contemporary Philosophy**
5. six (6) credit hours drawn from courses in the history of Philosophy*.

Year 4 (Major)

1. PHYS/PHIL 4515.1 (.2) and three (3) credit hours drawn from PHYS numbered 4000 or greater.
2. six (6) credit hours science elective
3. six (6) credit hours science elective
4. three (3) credit hours drawn from PHIL and three (3) credit hours general elective.
5. six (6) credit hours elective.

Year 4 (Honours)

1. PHYS/PHIL 4515.1 (.2) and three (3) credit hours drawn from PHYS numbered 4000 or greater.
2. six (6) credit hours drawn from PHYS 3417, 3445, 3436, 3437, or PHYS courses numbered 4000 or greater.
3. three (3) credit hours drawn from courses in the history of philosophy* and three (3) credit hours drawn from courses in contemporary philosophy**

4. three (3) credit hours drawn from PHIL and three (3) credit hours elective
5. PHYS 4500.0

*Courses in the history of philosophy include PHIL 2345.1 (.2), 2346.1 (.2), 3442.1 (.2), 3443.1 (.2), 3444.1 (.2), 4565.0

**Courses in contemporary philosophy include PHIL 2301.1 (.2), 3000.0, 3404.1 (.2), 3413.1 (.2), 4565.0

i. Double Major/Honours Philosophy and Physics (B.A.)

Year 1

1. PHYS 1210.1 (.2) and 1211.1 (.2)
2. MATH 1210.1 (.2) and 1211.1 (.2)
3. ENGL 1205.1 (.2), PHIL/PHYS 1255.1 (.2)
4. six (6) credit hours in social sciences.
5. PHIL 1200.0 or 1201.0

Year 2

1. PHYS 2305.1 (.2) and 2326.1 (.2)
2. PHYS 2335.1 (.2) and PHIL 2318.1 (.2)
3. PHYS 2355.1 (.2) and three (3) credit hours humanities
4. MATH 2310.1 (.2) and 2311.1 (.2), (six (6) credit hours electives)
5. three (3) credit hours drawn from courses in the history of philosophy* and three (3) credit hours drawn from courses in contemporary philosophy**

Year 3

1. PHYS 3405.1 (.2) and 3465.1 (.2)
2. PHYS 3435.1 (.2) and PHIL 3448.1 (.2)
3. PHYS 3457.1 (.2) and three (3) credit hours from social sciences
4. six (6) credit hours drawn from courses in contemporary philosophy**
5. six (6) credit hours drawn from courses in the history of philosophy*

Year 4 (Major)

1. PHYS/PHIL 4515.1 (.2) and three (3) credit hours drawn from PHYS numbered 4000 or greater.
2. six (6) credit hours science elective
3. six (6) credit hours science elective
4. three (3) credit hours drawn from PHIL and three (3) credit hours general elective.
5. six (6) credit hours elective.

Year 4 (Honours)

1. PHYS/PHIL 4515.1 (.2) and three (3) credit hours drawn from PHYS numbered 4000 or greater.
2. six (6) credit hours drawn from PHYS 3417, 3445, 3436, 3437 or numbered 4000 or greater.
3. three (3) credit hours drawn from courses in the history of philosophy* and three (3) credit hours drawn from courses in contemporary philosophy**
4. three (3) credit hours drawn from PHIL and three (3) credit hours from social sciences.
5. PHIL 4599.0 (recommended)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, PHYS 1210.1(.2) was formerly MAT 1210.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
PHY 210	PHYS 1210	PHY 436	PHYS 3436
PHY 211	PHYS 1211	PHY 437	PHYS 3437
PHY 235	PHYS 1235	PHY 445	PHYS 3445
PHY 236	PHYS 1236	PHY 446	PHYS 3446
PHY 305	PHYS 2305	PHY 457	PHYS 3457
PHY 306	PHYS 2306	PHY 465	PHYS 3465
PHY 326	PHYS 2326	PHY 466	PHYS 4466
PHY 335	PHYS 2335	PHY 472	PHYS 4472
PHY 355	PHYS 2355	PHY 473	PHYS 4473
PHY 405	PHYS 3405	PHY 474	PHYS 4474
PHY 417	PHYS 3417	PHY 500	PHYS 4500
PHY 435	PHYS 3435		

Undergraduate Courses

Note: With renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level.

1210.1(.2) University Physics I

Prerequisite: Nova Scotia Grade 12 physics or equivalent.

This calculus-based physics course is intended primarily for physics majors and engineers. Topics include kinematics, Newton’s laws of motion, conservation of energy and momentum, rotational dynamics, and Newton’s law of gravitation. Emphasis is placed on problem solving skills.

Classes 3 hrs. and lab/tutorial 3 hrs. /week. One semester.

Note: Credit cannot be given to students who have already taken PHY 205.0.

1211.1(.2) University Physics II

Prerequisite: PHYS 1210.1(.2); and MATH 1210.1(.2) or 1190.1(.2)

This calculus-based physics course is a continuation of PHYS 1210.1(.2), and covers the topics of oscillations and waves, thermodynamics, and electricity and magnetism.

Classes 3 hrs. and lab/tutorial 3 hrs. /week. One semester.

Note: Credit cannot be given to students who have already taken PHY 205.1(.2).

1235.1(.2) Physics for Life Sciences I

Prerequisite: Nova Scotia Grade 12 Math Pre-calculus and Nova Scotia Grade 11 physics.

This algebra-based physics course offers an introduction to the foundations of physics. The emphasis is on the understanding and application of equations of motion, Newton’s Laws, the nature of forces, and the extension to fluids. These ideas are applied to “real world” situations, including biological systems.

Classes 3 hrs. and lab/tutorial 3 hrs./week. One semester.

Note: Credit cannot be given to students who have already taken PHY 230.0.

Note: Students who wish to take PHYS 1211.1(.2) following PHYS 1235.1(.2) must obtain a grade of at least A in PHYS 1235.1(.2) and receive the permission of the chair in order to waive the standard prerequisite requirements.

1236.1(.2) Physics for Life Sciences II

Prerequisite: PHYS 1235.1(.2).

This algebra-based physics course builds on the foundation of PHYS 1236.1(.2), and considers specific applications, such as thermodynamics, waves and sound, light and optics, electricity and magnetism, atomic physics and radioactivity. These ideas are applied to “real world” situations, including biological systems.

Classes 3 hrs. and lab/tutorial 3 hrs. /week. One semester.

Note: Credit cannot be given to students who have already taken PHY 230.0.

1255.1 (.2) Cross-listed as PHIL 1255.1 (.2) Scientific Method

Prerequisite: Nova Scotia Grade 12 Math and Nova Scotia Grade 11 Physics or Chemistry; or permission of the instructors.

This course provides a historical and logical analysis of methods commonly used in science, and is normally taught by faculty from both the Department of Astronomy and Physics and the Department of Philosophy. Possible topics include science vs. pseudo-science, natural vs. social sciences, modes of reasoning, observation and experimentation, construction and empirical testing of theories and models, and thought experiments.

2305.1.(2) Newtonian Mechanics

Prerequisite: PHYS 1211.1.(2), MATH 1211.1.(2).

An introduction to the fundamental concepts behind our understanding of dynamical systems. Topics that will be covered include vectors, work and potential energy, stability, central force motion and orbits, rigid bodies in two dimensions.

2306.1.(2) Waves and Optics

Prerequisite: PHYS 1211.1.(2) and MATH 1211.1.(2).

An introduction to the concepts behind the production, propagation and manipulation of waves including light. Topics that will be discussed include: the simple harmonic oscillator, the wave equation, wave velocity and propagation, wave packets. These will lead to a discussion of the techniques of geometrical and physical optics.

Classes 3 hrs. a week and lab 3 hrs. a week. 1 semester.

2326.1.(2) Introduction to Modern Physics

Prerequisite: PHYS 2305.1.(2).

The Special Theory of Relativity and early ideas in Quantum Mechanics are introduced. Topics in relativity include observed departures from Newtonian theory, Lorentz transformations, space and time dilation, the "Twin Paradox", as well as some elementary ideas in relativistic dynamics. Topics in Quantum Mechanics include the quantum theory of light, the Bohr model of the atom, the wave nature of particles and the Schrödinger equation is applied to one-dimensional problems.

2335.1.(2) Introductory Mathematical Methods for Physicists

Prerequisite: PHYS 1211.1.(2) and MATH 1211.1.(2).

This course introduces the student to basic mathematical techniques in Physics. Topics include Taylor and binomial expansions, vector calculus, linear algebra, and eigensystems. An introduction to UNIX, elementary computer graphics, and the departmental computing system is also given.

Classes 3 hrs. a week and tutorial 1.5 hrs. a week. 1 semester.

Note: Credit cannot be given to students who have already take MATH 3311.1.(2) and/or MATH 3321.1.(2).

2355.1.(2) Electricity and Magnetism

Prerequisite: PHYS 1211.1.(2) and MATH 1211.1.(2).

Students are introduced to basic concepts describing electric and magnetic fields, including Gauss' law, Ampère's law, Faraday's law, conductors and insulators, resistance, inductance, capacitance in AC circuits.

Classes 3 hrs. a week and lab 3 hrs. a week. 1 semester.

3405.1.(2) Classical Mechanics

Prerequisite: PHYS 2305.1.(2), MATH 2311.1.(2), and PHYS 2335.1.(2).

This course introduces the generalized Lagrangian and Hamiltonian formulations of dynamics and applies them to studies of central force problems, rigid bodies in three dimensions, the motion of tops and the effect of constraints.

3417.1.(2) Thermal Physics

Prerequisite: PHYS 2335.1.(2) and 2326.1.(2).

A study of thermodynamics and the underlying foundation of the study of large systems – statistical mechanics. Both classical and quantum mechanical systems are considered.

Credit cannot be given for students who have already a credit for PHY 4416.1.(2).

3435.1.(2) Mathematical Methods in Physics I

Prerequisite: PHYS 2305.1.(2), PHYS 2335.1.(2), PHYS 2355.1.(2), MATH 2311.1.(2).

A discussion of the techniques used in theoretical physics to describe complex phenomena, including differential equations and special functions, complex analysis, Cauchy's theorem and the calculus of residues.

3436.1.(2) Mathematical Methods in Physics II

Prerequisite: PHYS 3435.1.(2).

A discussion of more advanced methods in theoretical physics, including the application of statistical methods, Green's functions, integral equations, transform theory, numerical analysis.

3437.1.(2) Computational Methods in Physics

Prerequisite: PHYS 2326.1.(2) and 3405.1.(2) and either PHYS 3435.1.(2) or MATH 4405.1.(2).

The use of the computer as a tool to solve "real" physics problems is inescapable. An introduction to UNIX, FORTRAN, and C is given. Projects drawn from all areas of physics are assigned that require the student to obtain numerical solutions to algebraically intangible problems. Specific topics may include sparse linear systems, spline-fitting, Romberg integration, random numbers, root-finding, fast Fourier Transforms, data-modelling, integrating, and solutions to partial differential equations.

3445.1.(2) Advanced Laboratory I

Prerequisite: PHYS 2305.1.(2) and MATH 2311.1.(2)

This course provides laboratory experience in advanced topics of physics and/or astrophysics. Students will be responsible for assembling, performing and documenting the experiments. At least one project-type experiment will be undertaken, in addition to the four or five more standard laboratory experiments.

Note: While this is a half credit course, it will be taught over two semesters.

Lab 3 hrs. a week. 2 semesters.

3457.1(.2) Electrodynamics

Prerequisite: PHYS 2355.1(.2) and 2435.1(.2).

This advanced course looks at how Maxwell's equations led to a unification of electric and magnetic forces, in turn leading to an understanding of the generation and propagation of electromagnetic waves. Topics include the propagation of electromagnetic waves in free-space and in materials, the inhomogeneous wave equations, radiation from moving charges, dispersion, and scattering.

3465.1(.2) Quantum Mechanics I

Prerequisite: PHYS 2326.1(.2)

This course builds on the foundation set in PHYS 2326.1(.2). Topics include the one-dimensional Schrödinger equation with harmonic oscillator and finite square well potentials, expectation values, the algebraic formalism for Quantum Mechanics, the three-dimensional Schrödinger equation and single-electron atoms, identical particles, multi-electron atoms, and systems of many particles.

4515.1 (.2) Cross-listed as PHIL 4515.1 (.2) Philosophy of Physics

Prerequisites: PHYS 2326, PHYS 2355 and PHIL prerequisites as outlined in paragraph 8 in the Philosophy Calendar entry; or permission of the instructors.

This course explores methodological, conceptual, metaphysical, and epistemological questions that arise in modern physics. Possible topics include scientific revolutions, experimentation, laws of nature, space, time, matter, causality, indeterminism, non-locality, thought experiments, and theoretical unification.

4446.1(.2) Advanced Laboratory II

Prerequisite: PHYS 3445.1(.2)

This course will present advanced topics in physics and/or astrophysics in the laboratory. Students will be responsible for setting up and performing the experiments, analyzing data, and writing computer programs. The majority of work will be project-based, each project conceived and built by the students from equipment available in the lab.

Note: While this is a half credit course, it will be taught over two semesters.

Lab 3 hrs. a week. 2 semesters.

4466.1(.2) Quantum Mechanics II

Prerequisite: PHYS 3465.1(.2).

This course is a continuation of PHYS 3465.1(.2), and covers topics such as time-independent perturbation theory, the variation principle, the Werner-Kremer-Boltzmann (WKB) approximation, time-dependent perturbation theory, the adiabatic approximation, and scattering.

4467.1(.2) Quantum Mechanics III

Prerequisite: PHYS 4466.1(.2).

This advanced course in Quantum Mechanics covers a selection of topics that may include scattering, lasers, relativistic quantum dynamics (Dirac theory), second quantization, and field theory.

4472.1(.2) Fluid Dynamics

Prerequisite: PHYS 3405.1(.2), and 3436.1(.2).

This course introduces students to the fundamentals of fluid dynamics. Topics include the compressibility of fluids, mass conservation, the Navier-Stokes equations, Reynolds number, vorticity, and viscosity. Some specialized numerical techniques for solving complex problems in fluid dynamics are also discussed.

4473.1(.2) General Relativity

Prerequisite: PHYS 3405.1(.2)

An advanced course introducing Einstein's theory of general relativity and the curvature of space-time. Topics shall include manifolds, Riemannian geometry, Einstein's equations, and applications to cosmology and black holes.

4474.1(.2) Subatomic Physics

Prerequisite: PHYS 3465.1(.2).

An introduction to modern nuclear and particle physics. Topics may include the nucleon-nucleon interaction, the deuteron, the nuclear shell model, dynamical probes of nuclei (electron, photon, and hadron scattering), the structure of nucleons and mesons, electroweak interactions, and the implications of quantum field theory

4500.0 Research Thesis

Prerequisite: honours standing.

Research project carried out by the student under the supervision of a member in the Department. The project should be in the area of astrophysics for students in the honours astrophysics program. The student will submit a thesis and defend it orally.

Directed study 3 hrs. a week. 2 semesters.

Atlantic Canada Studies (ACST)

Undergraduate Committee on Atlantic Canada Studies

A. MacLeod, Undergrad Coordinator	English
M. Harry, Coordinator	English
G. Barrett	Sociology
J. Chamard	Management
T. Charles	Finance, Information Systems and Management Science
L. Christiansen-Ruffman	Sociology
D. Cone	Biology
K. Flikeid	French
J. Hill	English
C. Howell	History
R. Hulan	English
M. MacDonald	Economics
R. McCalla	Geography
H. McGee	Anthropology
H. Millward	Geography
J. Morrison	History
D. Naulls	Political Science
N. Neatby	Irish Studies
P. Ó Siadhail	Irish Studies
V. Owen	Geology
D. Perrier	Sociology
J. Reid	History
A. Seaman	English
R. Twomey	History
M. Vance	History
M. VanderPlaat	Sociology
H. Veltmeyer	Sociology
TBA	undergraduate student representative
P. Twohig	Canada Research Chair in ACST

Atlantic Canada Studies is an interdisciplinary major, minor, concentration, and honours option in the Arts Faculty which has developed out of an increasing demand by students, faculty and the community generally, for a more organized study of this region.

Students who complete a major, minor, concentration, or honours in Atlantic Canada Studies will have helped to prepare themselves for a fuller and more meaningful participation in the life of Atlantic Canada, and will have acquired a useful background for careers in teaching, trade and industry, and the various bureaus of the provincial and federal civil services. Their attention is particularly drawn to the advantages, from a career point of view, of taking Atlantic Canada Studies as part of a double major or honours.

Students are required to choose their courses in consultation with a member of the Atlantic Canada Studies Committee, and are strongly urged to select one of its members to advise them for the duration of the program, and to provide the necessary liaison with the Committee.

Canada Research Chair in Atlantic Canada Studies

Dr. Peter L. Twohig holds the Canada Research Chair in Atlantic Canada Studies. He has an active program of research focusing on health in Atlantic Canada, and is particularly interested in interdisciplinary approaches to health care research and historical analyses of health and medicine. Undergraduate students interested in interview-based projects are encouraged to contact Dr. Twohig or visit the Gorsebrook Centre for New Media Qualitative Research.

The following are the regulations for the major, minor, concentration, and honours programs. Details concerning the Master of Arts in Atlantic Canada Studies degree are found in Section 3 of this *Calendar*.

Majors

To complete a major in Atlantic Canada Studies, a student must meet the usual University requirements for the Bachelor of Arts degree, and in particular, obtain forty-eight (48) credit hours from the courses listed below. At least twenty-four (24) of the forty-eight (48) credit hours must be at the 2000 level or above. Students are required to select courses in accordance with the following criteria:

1. The courses must include at least six (6) credit hours from each of three of Groups A, B, C, D and E.
2. The courses must include at least six (6) credit hours from each of three different academic disciplines. Interdisciplinary ACST courses do not count as a discipline for this purpose.
3. ACST 4411.1(.2) and 4412.1(.2) must be among the courses selected.
4. No more than eighteen (18) credit hours may be selected from Group E.
5. It is the responsibility of the student to ensure that all prerequisites have been fulfilled for the courses chosen.

Minors

A minor in Atlantic Canada Studies consists of twenty-four (24) credit hours chosen from the courses listed below and completed with a quality point average of at least 2.00. At least twelve (12) credit hours must be at the 2000 level or above, and the courses selected must include ACST 4411.1(.2) and 4412.1(.2). The courses must also include six (6) credit hours from each of three different academic disciplines, and no more than twelve (12) credit hours may be selected from Group E.

Honours

To complete an honours program in Atlantic Canada Studies, a student must meet the usual University requirements for the Bachelor of Arts (Honours) degree, and in particular, obtain sixty (60) credit hours from the courses listed below. At least forty-eight (48) of the sixty (60) credit hours must be at the 2000 level or above. Students are required to select courses in accordance with the following criteria:

1. The courses must include at least six (6) credit hours from each of four of Groups A, B, C, D, and E.
2. The courses must include at least six (6) credit hours from each of three different academic disciplines. Interdisciplinary ACST courses do not count as a discipline for this purpose.
3. Either ACST 4500.0 or ACST 4511.1(.2) and 4512.1(.2) must be among the courses selected.
4. No more than eighteen (18) credit hours may be selected from Group E.
5. It is the responsibility of the student to ensure that all prerequisites have been fulfilled for the courses chosen.

Concentrations

A concentration in Atlantic Canada Studies consists of twenty-four (24) credit hours chosen from the courses below and completed with a quality point average of at least 2.00 (C). At least eighteen (18) credit hours must be at the 2000 level or above, and the courses selected must include:

- a) one of ACST 2311.1(.2) and ACST 3312.1(.2);
- b) one of ACST 4411.1(.2) and ACST 4412.1(.2); and
- c) at least three (3) credit hours chosen from the other courses in Group A.

The remaining fifteen (15) credit hours must include courses from at least two separate disciplines chosen from the courses listed in Groups B, C, D, and E, and must also include courses from at least two of these groups.

Group A: Interdisciplinary Courses in Atlantic Canada Studies

ACST 1000.1(.2) ACST 2301.1(.2); ACST 2311.1(.2); ACST 2313.1(.2); ACST 2400.1(.2); ACST 3302.1(.2); ACST 3303.1(.2); ACST 3305.1(.2); ACST 3310.0; ACST 3312.1(.2); ACST 3321.1(.2); ACST 4401.1(.2) to 4405.1(.2); ACST 4411.1(.2); ACST 4412.1(.2); ACST 4500.0; ACST 4511.1(.2); ACST 4512.1(.2).

Group B: Culture and History

ANTH 2323.1(.2); ANTH 2324.1(.2); ANTH 4466.1(.2); ENGL 2380.0; ENGL 3312.1(.2); FREN 3305.1(.2); FREN 4405.1(.2); GEOG 2339.0; HIST 2320.0; HIST 2340.0; HIST 2346.1(.2); HIST 2373.1(.2); HIST 4535.0; HIST 4560.0; IRST 1203.1(.2); IRST 1204.1(.2); IRST 2307.0; LING 2305.1(.2); LING 3305.1 (.2); LING 3312.1(.2).

Group C: Social and Political Economy

CISY 4491.1 (.2); ECON 3324.1(.2); ECON 3325.1(.2); ECON 3361.1(.2); ECON 4475.1 (.2); MGSC 4491.1 (.2); POLI 2307.0; SOCI 3320.0; SOCI 3332.0; SOCI 4468.1(.2); WMST 3320.0; WMST 4468.1(.2).

Group D: Ecology and Environment

BIOL 4448.1 (.2); ECON 3362.1(.2); ENV5 3310.1 (.2); GEOG 3340.1(.2); GEOG 3454.1(.2); GEOL 1202.1(.2); GEOL 1203.1(.2); GEOL 1208.1(.2); GEOL 2335.1 (.2); SOCI 3310.1(.2).

Group E: Cognate Courses

ANTH 2316.1(.2); ANTH 2317.1(.2); ANTH 3329.1(.2); ANTH 3371.1(.2); ANTH 3395.1(.2); ANTH 3396.1(.2); ANTH 4463.1(.2); BIOL 1203.0; BIOL 2324.1(.2); BIOL 3331.1(.2); CRIM 3312.0; CRIM 4414.1 (.2); ECON 3306.1(.2); ECON 3307.1 (.2); ECON 3322.1(.2); ECON 3349.1(.2); ECON 3363.1(.2); ECON 3366.1(.2); ECON 4406.1(.2); ECON 4430.1(.2); ENGL 2344.1(.2); ENGL 2345.1(.2); ENGL 3343.1(.2); ENGL 3367.1(.2); ENGL 3437.1(.2); ENGL 4462.1(.2); ENGL 4463.1(.2); ENGL 4471.1(.2); ENGL 4472.1(.2); ENGL 4475.0; ENV5 1203.1(.2); ENV5 4440.1 (.2); FINA 3364.1 (.2); FINA 4466.1 (.2); FINA 4471.1 (.2); FREN 3312.1(.2); FREN 3340.1 (.2); FREN 4412.1(.2); FREN 4434.1(.2); FREN 4440.1(.2); FREN 4451.1(.2); FREN 4452.1(.2); FREN 4455.1 (.2); GEOG 2214.1 (.2); GEOG 3300.0; GEOG 2339.0; GEOG 3300.0; GEOG 4449.1(.2); GEOG 4400.0; GEOL 3518.1 (.2); HIST 1252.1(.2); HIST 1253.1(.2); HIST 2319.0; HIST 2327.1(.2); HIST 3403.1(.2); HIST 4525.0; IRST 2308.0; IRST 2327.1(.2); IRST 2328.1(.2); IRST 3400.0; IRST 4525.0; LING 2339.1 (.2); LING 3341.1 (.2); LING 3395.1(.2); LING 3396.1 (.2); LING 4440.1(.2); MGMT 4493.1 (.2); MGMT 4498.1 (.2); MKTG 4495.1 (.2); POLI 1240.1(.2); POLI 2304.0; POLI 2307.1 (.2); POLI 2310.0; POLI 2315.0; POLI 2330.0; POLI 2348.1 (.2); POLI 2450.1 (.2); POLI 3440.0; POLI 3447.1(.2); POLI 3454.1 (.2); POLI 4551.0; RELS 1220.1(.2); RELS 1221.1(.2); RELS 3354.1 (.2); RELS 3355.1(.2); RELS 3358.1(.2); RELS 3387.1; RELS 3387.1 (.2); SOCI 3306.0; SOCI 3321.0; SOCI 3339.1 (.2); SOCI 3339.1 (.2); SOCI 3340.0; SOCI 3352.1 (.2); SOCI 3359.0; SOCI 4448.0; SOCI 4480.0; SOCI 4481.0; WMST 3349.1(.2); WMST 4434.1(.2); WMST 4448.0; WMST 4481.0.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, ACST 2301.1(.2) was formerly ACS 301.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
	New Course ACST 1000	ACS 401	ACST 4401
ACS 301	ACST 2301	ACS 411	ACST 4411
ACS 311	ACST 2311	ACS 412	ACST 4412
ACS 313	ACST 2313	ACS 500;	ACST 4500;
New Course	ACST 2400	511-512	4511-4512
ACS 302	ACST 3302	ACS 620	ACST 6620
ACS 303	ACST 3303	ACS 630	ACST 6630
ACS 305	ACST 3305	ACS 640	ACST 6640
ACS 310	ACST 3310	ACS 650	ACST 6650
ACS 312	ACST 3312	ACS 660	ACST 6660
ACS 321	ACST 3321	ACS 690	ACST 6690

1000.1.(2) Making Sense of Atlantic Canada

This course provides an introduction to the Atlantic Provinces. It will examine specific content areas from multiple perspectives, including cultural industries, health and social services, environmental issues, economic development, and representations of the region. This course is intended as an introduction to Atlantic Canada Studies and to interdisciplinary inquiry.

2301.1.(2) Selected Topics in Atlantic Canada Studies I

This semester course will provide the student with an opportunity to take courses on specific Atlantic Canada topics which do not fit in with the standard offerings of other departments of the University.

2311.1.(2) The Culture of Atlantic Canada I

Prerequisite: a minimum of four (4.0) university credits.

This course provides an introduction to the cultural traditions and institutions of the various regions and ethnic groups of each of the three Maritime Provinces and Newfoundland and Labrador. Lectures will cover a wide variety of architectural, artistic, ecclesiastical, educational, ethnic, linguistic, media, and policy topics. Students will engage in both individual and group projects.

2313.1.(2) Researching Atlantic Canada

Prerequisite: a minimum of twenty-four (24) credit hours.

There are many ways of interpreting the Atlantic Canadian experience. Individual disciplines (such as history, sociology, anthropology, economics, and biology) take different approaches, utilize different data, and present their research in different ways. All research, however, must be read with a critical eye. This course will expose students to a variety of ways of analyzing Atlantic Canada, focusing largely on qualitative research approaches and the human experience in the region.

2400.1.(2) Health and Social Policy in Atlantic Canada

This course will explore the development of health and social policy in Atlantic Canada. It will examine the evolution of the welfare state, hospitals, training for health care workers, and contemporary health issues. This intermediate course is intended for students with some knowledge of or interest in Atlantic Canada.

3302.1.(2) Selected Topics in Atlantic Canada Studies II

This semester course will provide the student with an opportunity to take courses on specific Atlantic Canada topics which do not fit in with the standard offerings of other departments of the University.

3303.1.(2) Higher Education in Atlantic Canada

This course will examine the student with an opportunity to take courses on specific Atlantic Canada topics which do not fit in with the standard offerings of the other departments of the University.

3305.1.(2) Moving Images of Atlantic Canada

This course examines the evolution of film and television in the Atlantic region in the 20th century. Various genres and technologies will be studied, including critical examination of productions by the National Film Board, by the Canadian Broadcasting Corporation, by private television, by independent film-makers, by producers from "away", and by non-commercial film/video makers. The course will consider the extent to which distinctive ways of making moving images were or were not developed in Atlantic Canada, and the manner in which moving images have reflected, distorted, or shaped the culture of the Region.

3310.0 The Atlantic Fisheries

A study of the relationship between the material basis and political economy of the Atlantic fisheries since 1945. Stress will be placed on the scientific facts underlying the fisheries, and in particular, the qualities and quantities in the marine ecosystem that support them. A detailed study will also be made on the methods of fisheries science which are the basis of fish stock assessments by government scientists. Roughly the last third of the course will examine the effects of the livelihood of fishermen, of government policies respecting the fisheries, and the regional, national and international political forces which are behind federal government fisheries regulations.

3312.1.(2) The Culture of Atlantic Canada II

Prerequisite: ACST 2311.1.(2).

This course will continue the work of ACST 2311.1.(2), usually with a more focused approach to one or more of the topics or regions studied in ACST 2311.1.(2).

3321.1.(2) African Nova Scotian Culture

This course provides a basic understanding of African Nova Scotian culture. It introduces students to the history and cultural heritage of African Nova Scotian communities, their experience of life today, and the various forms of artistic expression produced by the culture. It also offers insight into the problems and concerns of African Nova Scotian communities and their historical and cultural connections with the Black Diaspora.

4401.1.(2) to 4405.1.(2) Directed Readings

Prerequisite: permission of ACST Coordinator.

These courses provide opportunities to study a particular subject in detail. They will normally require a considerable amount of independent, though supervised, study.

4411.1(.2) Atlantic Canada Seminar I

Prerequisite: a minimum of thirty (30) credit hours.

This course will provide an opportunity for students to integrate their knowledge of Atlantic Canada in an interdisciplinary fashion. Drawing upon the expertise of a number of guest speakers familiar with various aspects of Atlantic Provinces life, the course will deal with such topics as the Atlantic fishery, agriculture, industry and labour, business enterprise, regional protest and cultural ethnicity.

4412.1(.2) Atlantic Canada Seminar II

Prerequisite: ACST 4411.1(.2)

This course will continue the work of ACST 4411.1(.2). In addition, students will be afforded an opportunity to use the vast quantity of primary source material at the Public Archives of Nova Scotia and other local repositories.

4500.0; 4511.1(.2) – 4512.1(.2) Honours Seminar

Prerequisite: a minimum of sixty (60) credit hours.

These courses will provide an opportunity for honours students to integrate their knowledge in an interdisciplinary fashion.

Master of Arts in Atlantic Canada Studies

6620.0 Culture of Atlantic Canada

Prerequisite: graduate standing.

The course will deal with the historical, geographical and linguistic aspects of the culture of the Atlantic Region. This will include the tracing of the development of distinctive cultures within the region. The development of various literary forms within the region from folk-tale and folk-song to more sophisticated written literary materials will be emphasized. The course will also explore regional and federal policies.

6630.0 Seminar on Atlantic Canada Ecology and Resources

Prerequisite: graduate standing.

This seminar looks at the changing ways nature has been viewed and transformed in the Atlantic Region before and after European settlement. Topics covered include Indians and the land, patterns of animal extinction, Natural Theology and Darwinism, the conservation movement, "technological flaw", and the ways in which business, politicians and ordinary people have dealt with environmental concerns. A central question asked will be the relevance of ecological insights in an industrialized, yet underdeveloped, region.

6640.0 Atlantic Canada Political Economy Seminar

Prerequisite: graduate standing.

This course will involve an interdisciplinary perspective on the region's economic, political and social institutions and the problems associated with them. On the basis of both a historical and a structural analysis of the region's political economy, the seminars will focus on a broad range of problems including uneven industrial and urban development, rural decline, regional disparity, economic concentration and corporate power, the role of government in economic and social development, industrial relations and social conflict, resource extraction and the single-industry community.

6650.0 Directed Reading

Prerequisite: graduate standing.

Reading courses will be organized by the instructor(s) involved. In general, each course will centre on a specific theme, and the students will be expected, through their reading, to be familiar with all aspects of the chosen area. Examinations and/or papers will be required at the end of each course.

6660.0 History and Society: The Atlantic Provinces Seminar

Prerequisite: graduate standing.

This course, intended for master's students in Atlantic Canada Studies and honours and master's students in history, addresses the nature of historical inquiry into issues relating to the social and economic history of the Atlantic region. Topics to be covered will include regional culture, gender and race, the family, processes of development and underdevelopment, scientism and professionalization, health, recreation and sport. Students who have completed ACST 6660.0 are not eligible to enrol in HIST 4560.0.

6690.0 Thesis Research

Prerequisite: enrolment in the Master of Arts in ACST or permission of ACST Coordinator.

This seminar looks at the changing ways nature has been viewed and
Students will engage in the research and writing of a thesis under supervision of a thesis committee. The student must satisfy the supervisor that thesis research and all other methodological and disciplinary preparation for the successful handling of the thesis topic have been completed. Supervisors may require a demonstration of language competence or extra course work as preparation for the treatment of certain thesis topics. Students will publicly defend their thesis, following which a final grade will be determined by the thesis committee.

Biology (BIOL)

Chairperson, Professors	TBA D. Cone, T. Rand, D. Richardson, D. Strongman, K. Vessey
Associate Professors	C. Barber, Z. Dong, R. Russell, G. Sun, M. White
Assistant Professors	S. Bjornson, H. Broders, J. Lundholm
Adjunct Professors	M. Agbeti, M. Jones, F. Jonsyn-Ellis, K. MacKenzie, H. Murray, B. Pardy, N. Ross
Professor Emeritus	A. Rojo

The Biology Department offers programs to fulfill the requirements of the following degrees:

1. general degree of Bachelor of Science with a concentration in biology,
2. degree of Bachelor of Science with a major in biology,
3. degree of Bachelor of Science with an honours in biology, and
4. a double major or honours in biology and another science subject.

Students completing a general degree in biology should be capable of teaching or doing technical work in biological research, health sciences and environmentally-related fields after appropriate on-job training. Students finishing a major or honours degree in biology are qualified to further their education at graduate and professional schools.

In addition to these traditional programs, the Department offers a Co-operative Education program in Biology (COEB). Students interested in the Co-op program should consult the Co-operative Education Office for details.

Students should consult the Science Faculty regulations outlined in Section 3 for details on the Bachelor of Science degree.

Major in Biology

- (1) BIOL 1201.1(.2) and 1202.1(.2)
- (2) At least eighteen (18) credit hours from these core courses:
 - BIOL 2303.1(.2) Plant Biology
 - BIOL 2307.1(.2) Genetics
 - BIOL 2308.1(.2) Biostatistics
 - BIOL 2322.1(.2) Physiology I
 - BIOL 2324.1(.2) Ecology
 - BIOL 2326.1(.2) Invertebrate Zoology
 - BIOL 2329.1(.2) Systematics
 - BIOL 2398.1(.2) Intro to Microbiology
 - BIOL 3321.1(.2) Cell Biology
 - BIOL 3327.1(.2) Anat/Morph-vertebrates
 - BIOL 3423.1(.2) Evolution
- (3) at least twelve (12) credit hours at the 4000-level.
- (4) six (6) to twelve (12) credit hours of BIOL electives.

Concentration in Biology:

Requirements (1) and (2) and six (6) credit hours at the 4000-level are required for the BIOL concentration.

Double Majors:

Requirements (1) to (3) are necessary to fulfill the requirements for the BIOL major. For details on the necessary courses for the second major, see the appropriate departmental section.

Minor in Biology:

Requirements (1) and (2) and six (6) credit hours at the 4000-level are required for the BIOL minor. For details on the requirements for the major subject, see the appropriate departmental section.

Honours in Biology:

- (1) BIOL 1201.1(.2) and 1202.1(.2)
- (2) BIOL 2308.1(.2) and at least fifteen (15) credit hours from the core courses above.
- (3) eighteen (18) credit hours at the 4000-level.
- (4) six (6) to eighteen (18) credit hours of BIOL electives.
- (5) BIOL 4549.0 (Honours Seminar).
- (6) BIOL 4500.0 (Honours Thesis)

The signed, final copies of the thesis must be submitted to the library for binding and a copy of the receipt provided to the chairperson before a grade for this course will be submitted. **Failure to do so could delay the student's graduation.** The guidelines for thesis preparation can be obtained at the library information desk.

NOTE: It is the student's responsibility to secure a supervisor for the thesis course prior to enrolling in the honours program. It is highly recommended that prospective honours students consult with the Departmental Chair the year preceding the academic year they plan to do an honours program.

Double Honours:

For details on the necessary courses for the second honours, see the appropriate departmental section. Students **MUST** consult the Chairs of both departments **PRIOR** to making an application for a double honours degree.

Six (6) credit hours from the following courses may be substituted for six (6) biology credit hours required for a Bachelor of Science degree in biology (e.g., Faculty of Science regulation 6d): ANTH 3471.1(.2), ANTH 3472.1(.2), CHEM 4451.1(.2), CHEM 4452.1(.2), GEOL 2335.1(.2), PSYC 4407.1(.2), and PSYC 4408.1(.2). This credit cannot be used to fulfill both the biology requirement *and* the other requirements for a Bachelor of Science degree (e.g., regulation 6e).

Courses offered by the Department of Biology fall into three themes (Molecular, Organismal and Ecological) and students may opt for a course selection which enables specialization in one of the themes or exposure to one or more themes. The courses are listed below with respect to the themes.

Molecular: BIOL 2307.1(.2), 2329.1(.2), 3321.1(.2), 3402.1(.2), 3414.1(.2), 3420.1(.2), 3423.1(.2), 4408.1(.2), 4417.1(.2), 4418.1(.2), 4419.1(.2), 4433.1(.2).

Organismal: BIOL 2303.1(.2), 2307.1(.2), 2322.1(.2), 2323.1(.2), 2325.1(.2), 2326.1(.2), 2329.1(.2), 2398.1(.2), 2399.1(.2), 2427.1(.2), 3327.1(.2), 3328.1(.2), 3402.1(.2), 3411.1(.2), 3416.1(.2), 3421.1(.2), 3423.1(.2), 3424.1(.2), 3426.1(.2), 4404.1(.2), 4408.1(.2), 4410.1(.2), 4418.1(.2), 4429.1(.2), 4430.1(.2), 4431.1(.2), 4432.1(.2),.

Ecological: BIOL 2307.1(.2), 2308.1(.2), 2324.1(.2), 2329.1(.2), 2398.1(.2), 3331.1(.2), 3414.1(.2), 3416.1(.2), 3423.1(.2), 4404.1(.2), 4410.1(.2), 4412.1(.2), 4422.1(.2), 4425.1(.2), 4428.1(.2), 4429.1(.2), 4430.1(.2), 4431.1(.2), 4447.1(.2), 4448.1(.2), 4449.1(.2), 4450.1(.2).

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, BIOL 1201.1(.2) was formerly BIO 201.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
BIO 201	BIOL 1201	BIO 416	BIOL 3416
BIO 202	BIOL 1202	BIO 417	BIOL 4417
BIO 303	BIOL 2303	BIO 418	BIOL 4418
BIO 307	BIOL 2307	BIO 419	BIOL 4419
BIO 308	BIOL 2308	BIO 420	BIOL 3420
BIO 321	BIOL 3321	BIO 421	BIOL 3421
BIO 322	BIOL 2322	BIO 422	BIOL 3422
BIO 323	BIOL 2323	BIO 423	BIOL 3423
BIO 324	BIOL 2324	BIO 424	BIOL 3424
BIO 325	BIOL 2325	BIO 425	BIOL 4425

BIO 326	BIOL 2326	BIO 427	BIOL 2427
BIO 327	BIOL 3327	BIO 428	BIOL 4428
BIO 328	BIOL 3328	BIO 429	BIOL 4429
BIO 329	BIOL 2329	BIO 430	BIOL 4430
BIO 331	BIOL 3331	BIO 431	BIOL 4431
BIO 398	BIOL 2398	BIO 432	BIOL 4432
BIO 399	BIOL 2399	BIO 433	BIOL 4433
BIO 402	BIOL 3402	BIO 447	BIOL 4447
BIO 404	BIOL 4404	BIO 448	BIOL 4448
BIO 408	BIOL 4408	BIO 449	BIOL 4449
BIO 410	BIOL 4410	BIO 450	BIOL 4450
BIO 411	BIOL 3411	BIO 490	BIOL 4490
BIO 412	BIOL 4412	BIO 500	BIOL 4500
BIO 414	BIOL 3414	BIO 549	BIOL 4549

All of the following courses have a 3 hour per week lab component unless otherwise noted. Students must pass both the laboratory and the lecture components of a course to pass the course.

1201.1(.2) Molecular and Cell Biology

Prerequisite: Nova Scotia Grade 12 or equivalent.

An introductory study of the principles and organization of life including molecular, cell biology and heredity.

1202.1(.2) Organismal and Ecological Biology

Prerequisite: Nova Scotia Grade 12 or equivalent.

An introductory study of the principles and organization of life including anatomy, form and function, physiology, life history and ecology.

1203.0 Cross Listed as ENV5 1203.1 Biology and the Human Environment (for non-science students)

2303.1(.2) Plant Biology

Prerequisite: BIOL 1201.1(.2) and 1202.1(.2).

An introduction to the study of vascular plants, including plant structure, function, life history, adaptation, and evolution.

2307.1(.2) Genetics

Prerequisite: BIOL 1201.1(.2).

Principles and history of heredity. Gene interactions, association of genes on eukaryotic chromosomes. Autosomal and sex-linked genetic inheritance and sex determination. Statistical test of genetic hypotheses. Laboratory study includes genetic experiments and problem solving.

2308.1(.2) Biostatistics

Prerequisite: BIOL 1202.1(.2), MATH 1210.1(.2) or CSCI 1226.1(.2).

Introduction to the methods of analyzing quantitative data in the biological sciences. The emphasis will be on practical applications of statistics in biology and its graphical presentation. Descriptive statistics, distributions, regression, correlation, analysis of variance, and sampling methods will be covered. This course is recommended for biology majors.

2322.1(.2) General Physiology I

Prerequisite: BIOL 1201.1(.2) and 1202.1(.2).

An introduction to the essentials of vertebrate cellular physiology. Topics discussed will include metabolism, the nervous and endocrine systems, and muscles.

2323.1(.2) General Physiology II

Prerequisite: BIOL 2322.1(.2).

An introduction to the essential physiology of vertebrates including blood, circulation, respiration, water-electrolyte regulation and digestion.

2324.1(.2) Ecology

Prerequisite: BIOL 1202.1(.2).

A study of modern ecology including energy flow, biogeochemical cycles, population biology and community structure. Field trips are an important part of the laboratory component.

2325.1(.2) Biology of Protists

Prerequisite: BIOL 1202.1(.2).

An introduction to the protistan Phyla (protozoa and algae): protist morphology and diversity; physiology and reproduction; ecology and applied aspects; evolution and the origins of multicellularity.

2326.1(.2) Invertebrate Zoology

Prerequisite: BIOL 1201.1(.2) and 1202.1(.2).

A study of free-living, non-vertebrate animals including the radiates, acoelomates, pseudocoelomates, crustaceans, arthropods and echinoderms. The laboratory exercises provide the student with the opportunity to experiment with certain living animals and to dissect and examine a variety of preserved specimens.

2329.1(.2) Principles of Systematics

Prerequisite: BIOL 1201.1(.2) and 1202.1(.2).

This course examines the fundamentals of animal and plant systematics including rules of nomenclature, the basis of classification, and the theory of phylogenetics.

2398.1(.2) Introduction to Microbiology

Prerequisite: BIOL 1201.1(.2) and 1202.1(.2).

This course is designed to introduce students to the world of microorganisms. Topics covered include morphology, classification, taxonomy, and metabolism of bacteria, fungi, and viruses.

2399.1(.2) Biology of Lower Plants

Prerequisite: BIOL 1202.1(.2).

An introduction to the thalloid and leafy non-vascular plants including mat and colony forming cyanobacteria, macroseaweeds, stoneworts, liverworts, hornworts, mosses and lichens. The ecology of these plants and their uses especially for environmental monitoring will be discussed as will their life cycles and structure. This course, together with BIOL 325 and BIOL 328 forms a suite of courses of value to biology students interested in ecology as well as those majoring in geography and environmental studies.

2427.1(.2) Introductory Entomology

Prerequisite: BIOL 1202.1(.2).

An introduction to the fascinating world of insects. The anatomy, physiology and taxonomy of this group will be examined. Lab work will include field trips for collection of insects and exposure to methods for preservation and presentation of insect collections.

3321.1(.2) Cell Biology I

Prerequisite: BIOL 1201.1(.2).

An introduction to the eukaryotic cell with emphasis on the chemical and genetic basis of cellular activities and the division of the cell into membrane-bound and biochemically specialized compartments. The plasma membrane, cytosol, nucleus, cytoskeleton, Golgi apparatus, mitochondrion, chloroplasts and endoplasmic reticulum will be considered.

3327.1(.2) Anatomy and Functional Morphology of Vertebrates

Prerequisite: BIOL 1202.1(.2).

The study of vertebrates, with consideration of structural modifications for particular life styles. Laboratory instruction involves dissection of representative animals.

3328.1(.2) Plant Taxonomy and Identification

Prerequisite: BIOL 2303.1(.2).

3331.1(.2) Population and Ecosystem Health

Prerequisite: BIOL 2324.1(.2).

3402.1(.2) Population Genetics

Prerequisite: BIOL 2307.1(.2).

The measurement of gene frequencies in a population and the factors which affect these frequencies (including mutation, genetic drift, migration, and natural selection) will be considered conceptually and mathematically.

3411.1(.2) Animal Parasitology I

Prerequisite: BIOL 2326.1(.2).

The relationship between parasites and their hosts, emphasizing the taxonomy and life history of protists and helminths of vertebrates including man. Laboratory work is on living and prepared materials, maintenance of life cycles and infectivity to vertebrates.

3414.1(2) Environmental Microbiology

Prerequisite: BIOL 2398.1(2).

A course in the biology of microorganisms highlighting molecular biology (physiology and genetics), ecology, and the exploitation of microorganisms by humans (biotechnology and industrial microbiology).

3416.1(2) Mycology I

Prerequisite: BIOL 1202.1(2).

Introduction to the fungi. Students will become familiar with the members of this diverse group of organisms by studying the morphology and ecology of representatives from each of the major taxonomic groups.

3420.1(2) Cell Biology II

Prerequisite: BIOL 3321.1(2).

An investigation of specific functions of the eukaryotic cell, particularly those that are important in multicellular organisms. Topics include cell division, cell signaling, neurons, cells of the immune system, the extracellular matrix, cellular differentiation and cancer.

3421.1(2) Biology of Domesticated Plants

Prerequisite: BIOL 2303.1(2).

An introduction to the study of plants used by people, their origin, domestication, botany, cultivation, harvesting, uses, diseases, breeding, and their role in the modern world economy. Plants and plant products of industrial importance, medicinal plants, food plants, psychoactive plants, and food additives will be examined in detail.

3423.1(2) Evolution

Prerequisite: BIOL 2307.1(2).

The Darwinian natural selection hypothesis. History of biological evolution from the 16th century. The modern synthesis of genetics and natural selection. Laboratory data analysis and problem solving.

3424.1(2) Life History of Fishes

Prerequisite: BIOL 2329.1(2).

The study of fishes, their classification, life history and global distribution. The laboratory portion of the course familiarizes the students with representatives of world taxa and the fishes of Nova Scotia.

3426.1(2) Animal Tissues

Prerequisite: BIOL 3327.1(2).

An introduction to the structure and function of animal tissues. Laboratory work will involve the interpretation of histological preparations of representative vertebrate tissues.

4404.1(2) Behavioral Ecology

Prerequisite: BIOL 2324.1(2) and, BIOL 2308 or MATH 1216

Study of animals and how they interact in their environment with emphasis on the adaptive value of behavior. Students will conduct independent research in labs.

4408.1(2) Vertebrate Embryology

Prerequisite: BIOL 2322.1(2) and BIOL 3321.1(2).

Early developmental processes involved in the transformation of the fertilized egg into a new individual.

4410.1(2) Plant Diversity and Ecology

Prerequisite: BIOL 2303.1(2) and 2324.1(2).

This is a hands-on course on the identification and ecology of plants in the important vegetation types of Nova Scotia. In the first half of the course, students will learn plant-sampling techniques during field trips to various natural habitats around Halifax. The second half will involve the preparation and identification of plant specimens and ecological comparisons between habitat types. Students will also learn conservation biology and applied ecology of key habitat types. This course will provide valuable preparation for employment in natural resource management, ecological restoration or research.

4412.1(2) Animal Parasitology II

Prerequisite: BIOL 2326.1(2).

This course is concerned with the ecological significance of animal parasites. Topics include host behaviour, fitness, and population biology, the development of parasite communities, and the importance of zoonotic and epidemic diseases.

4417.1(2) Mycology II

Prerequisite: BIOL 3416.1(2).

The uniqueness of fungal ultrastructure, physiology and genetics will be explored and the human application of this information will be discussed under the heading of biotechnology.

4418.1(2) Plant Physiology

Prerequisite: BIOL 2303.1(2).

The physiology of higher plants. Topics include photosynthesis, water and resource allocation, transpiration, photohormones, differential growth, photomorphogenesis, photoperiodism, and flowering.

4419.1(2) Molecular Biology

Prerequisite: BIOL 2307.1(2) and CHEM 2344.1(2).

Chemistry of genes and history of molecular biology. Structure of DNA, RNA, and proteins. Transcription, translation, and replication of DNA and RNA. Organization of genes and genomes. Laboratory study of DNA preparation and analysis, and gene isolation.

4422.1(2) Applied Ecology

Prerequisite: BIOL 2324.1(.2).

This course introduces how ecological principles can be applied to human exploitation of natural resources. Topics include timber and fish management, pest control, effects of pollution on ecosystems, and landscape ecology. The laboratory component exposes students to methods used in applied ecology.

4425.1(2) Ecology of Fishes

Prerequisite: BIOL 2324.1(.2).

Growth and development, population biology, the role of fishes in aquatic communities, and the influence of human activities on fish, are studied.

4428.1(2) Applied Entomology

Prerequisite: BIOL 2427.1(.2).

Insect ecology and the relationship of insects to humans. Topics covered will include: insect biodiversity, morphological and behavioral modifications for specific ecological roles and the impact of insects on human activities.

4429.1(2) Quaternary Palynology and the History of Vegetation**[GEOL 429.1(2)]**

Prerequisite: BIOL 1202.1(.2), or GEOL 1200.1(.2), or GEOG 1203.1(.2).0

The study of pollen grains from peat deposits, lake sediments and moss polsters etc. enables the reconstruction of past vegetation and climates. This course will cover the techniques for pollen extraction, the identification of plants from their pollen and the reconstruction of plant communities from the discovered pollen. This will be related to climate change in the past. This course will be of special value to ecologists, geographers and also to entomologists (especially beekeepers), archaeologists, and environmental studies students.

4430.1(2) Ornithology

Prerequisite: BIOL 2327.1(.2).

Introduction to bird biology that covers morphology, classification, life history, and behavior. Labs provide hands-on experience and complement lectures.

4431.1(2) Herpetology

Prerequisite: BIOL 2324.1(.2)

Herpetology is the study of amphibians and reptiles. Topics include classification, anatomy, physiology, ecology, and evolutionary relationships of amphibians and reptiles with emphasis on Nova Scotia herpetofauna.

Note: Attendance at field trips during the second and third weeks of August is mandatory. Contact the instructor for details.

4432.1(2) Medical and Veterinary Entomology

Prerequisite: BIOL 2427.1(.2).

This course presents an introduction to the biology of insects and arthropods that cause disease in humans and domestic animals. Topics include the biology and behaviour of disease vectors and external parasites, the role of vectors in the transmission of disease organisms, life cycles of vectorborne pathogens, and the mechanisms of vector and disease control.

4433.1(2) Ecotoxicology

Prerequisite: BIOL 2324.1(.2) and CHEM 1212.1(.2).

Ecotoxicology is the study of anthropogenic contaminants in the natural environment. This course will provide an introduction to the study of the fate and effects of toxic chemicals on the structure and function of ecological systems.

Laboratories will consist of practical sessions, discussions and debates and field trips.

Classes 3 hrs. a week. Lab 3 hrs. a week.

4447.1(2) Aquatic Biology in Bermuda

Prerequisite: BIOL 2324.1(.2).

4448.1(2) Biology Field Course

Prerequisite: BIOL 2324.1(.2), and BIOL 2308.1(.2) or MATH 1216.1(.2).

The design and practice of biological study of communities under field conditions at selected sites in Nova Scotia. The main emphasis is on how ecologists document the abundance of organisms and quantify the structure of a community.

Classes 36 hrs., including lecture and field work in Nova Scotia during a summer session.

Note: Enrolment in this course is limited.

4449.1(2) Aquatic Parasitology

Prerequisite: BIOL 3411.1(.2) and BIOL 4412.1(.2).

Students interested in taking this course must obtain a letter of permission signed by the Dean of Science prior to enrolling in the course.

A two-week, field course held in the summer at the Huntsman Marine Science Centre in St. Andrews, New Brunswick. Both marine and freshwater invertebrates and vertebrates are examined for their parasite fauna. Selected protozoan as well as metazoan parasites are examined live prior to appropriate processing for identification. Students will learn to recognize common parasitic Protozoa, Turbellaria, Monogenea, Digenea, Cestoda, Nematoda, and Crustacea found in the aquatic hosts as well as to understand their ecology and host/parasite relationships.

Classes 36 hrs., including lectures, labs, and fieldwork during a summer session.

4450.1(2) Diversity in Forest Ecosystems

Prerequisite: BIOL 2324.1(2), and BIOL 2308.1(2) or MATH 1216.1(2).

This course introduces students to field research in forest ecosystems of Nova Scotia. This field course covers issues such as the need to protect natural ecosystems, the effects of management practices on all components of the ecosystem and the evaluation of biodiversity. The students will use field techniques such as capture – recapture, soil analysis and vegetation survey to evaluate diversity and measure species responses to environmental changes. This course will give the students a unique opportunity to work in collaboration with wildlife and forest managers. The field work will be conducted outside Halifax, in protected and managed forest ecosystems of Nova Scotia.

Classes 36 hrs., including lectures, labs, and fieldwork conducted outside Halifax.

4490.1(2) – 4499.1(2) Directed Study in Biology

Prerequisite: Permission of instructor on a directed studies form available from the Chairperson of Biology.

These courses are intended to supplement the course offerings in biology and allow students to delve deeper into a subject of particular interest to them. Students must show some initiative and be willing to work independently.

4500.0 Research Thesis

Prerequisite: honours standing.

Research project carried out by the student under the supervision of a member of the Department. The student will submit a thesis and present it orally.

Lab 6 hrs. a week. 2 semesters.

4549.0 Honours Seminar

Prerequisite: honours standing.

Seminars followed by discussions based on recent advances in biology. In consultation with the honours advisor, the honours students will select and prepare the topics for presentation to biology faculty and students.



Members of the Saint Mary's community gathered on May 5, 2005 to celebrate the life of the late Donnie Robinson, dedicated employee in Facilities Management for 31 years, at a special bench dedication ceremony. Hosted by Dr. J. Colin Dodds, President, the event attracted more than 100 faculty and staff along with members of Robinson's family.

Chemistry (CHEM)

Chairperson, Professor	R. Singer
Professors	C. Elson, K. Vaughan
Associate Professors	M. Lamoureux, A. Piorko, H. Jenkins, C. Pye
Assistant Professors	K. Singfield
Adjunct Professors	D. Gamble, W. Jones
Professors Emeriti	J. Murphy, J. Young
Dean Emeritus	W. Bridgeo

The program of the Department of Chemistry is designed to satisfy two functions:

- Fulfill requirements for the general degree of Bachelor of Science with a concentration in Chemistry, the degree of Bachelor of Science with Major in Chemistry, and the degree of Bachelor of Science with Honours in Chemistry.

These degrees will permit graduates to enter the work force or graduate school with a background at least equal to that provided by other universities in Canada and the United States.

- Introduce students in other disciplines to the ideas of chemistry and provide them with the chemical skills necessary for their professional development.

All members of staff are engaged in active research projects, and undergraduates are expected and encouraged to contribute to these projects. Research jobs, both during the term and in the summer, are also available for undergraduates.

The core program for a B.Sc. degree with a major in chemistry consists of CHEM 1210.1(.2) and one of [i.e., three (3) credit hours] CHEM 1211.1(.2), 1212.1(.2) or 1213.1(.2); and CHEM 2312.1(.2), 2313.1(.2), 3322.1(.2), 3324.1(.2), 2332.1(.2), 2333.1(.2), 2344.1(.2), 2345.1(.2); and CHEM 3451.1(.2) or 4452.1(.2); and any nine (9) credit hours at the 4000 level in chemistry. Students may take up to twelve (12) credit hours of additional chemistry courses of their choice and CHEM 4498.0 is recommended as one of such courses. Students are required to take three (3) credit hours in Mathematics, Computer Science, or Statistics, above the compulsory MATH 1210.1(.2)/1211.1(.2) credits. Major students are also required to complete PHYS 1210.1(.2) and 1211.1(.2) and these courses should normally be taken in Year 1.

The core program for a B.Sc. degree with honours in chemistry consists of CHEM 1210.1(.2) and one of [i.e., three (3) credit hours] CHEM 1211.1(.2), 1212.1(.2), or 1213.1(.2); and CHEM 2312.1(.2), 2313.1(.2), 3322.1(.2), 3324.1(.2), 2332.1(.2), 2333.1(.2), 2344.1(.2), 2345.1(.2); and CHEM 3451.1(.2) or 4452.1(.2); and CHEM 4412.1(.2), 4498.0, 4500.0, and one of [i.e., three (3) credit hours] CHEM 4421.1(.2) or 4422.1(.2) or 3445.1(.2); one of [i.e., three (3) credit hours] CHEM 3432.1(.2) or 4433.1(.2); one of [i.e., three (3) credit hours] CHEM 3443.1(.2) or 4444.1(.2). Students are required to take three (3) credit

hours at the 4000 level and up to twelve (12) credit hours of additional chemistry courses of their choice. Honours students are also required to complete PHYS

1210.1(.2) and 1211.1(.2) and these courses should normally be taken in Year 1, and MATH 2310.1(.2) and 2311.1(.2), which should normally be taken in Year 2.

The core program for double majors consists of: CHEM 1210.1(.2) and one of [i.e., three (3) credit hours] 1211.1(.2), 1212.1(.2) or 1213.1(.2); three (3.0) of [i.e., eighteen (18) credit hours] CHEM 2312.1(.2), 2313.1(.2), 3322.1(.2), 3324.1(.2), 2332.1(.2), 2333.1(.2), 2344.1(.2), 2345.1(.2), 2373.1(.2), 2374.1(.2); and twelve (12) credit hours at the 4000-level.

The core program for double honours consists of: CHEM 1210.1(.2) and one of [i.e., three (3) credit hours] 1211.1(.2), 1212.1(.2) or 1213.1(.2); three (3.0) of [i.e., nine (9) credit hours] CHEM 2312.1(.2), 2313.1(.2), 3322.1(.2), 3324.1(.2), 2332.1(.2), 2333.1(.2), 2344.1(.2), 2345.1(.2); and twelve (12) credit hours in 4000 level course. In addition, it is strongly recommended that students in both double majors and double honours complete MATH 1210.1(.2)/1211.1(.2) to fulfill the mathematics requirement, and PHYS 1210.1(.2) and 1211.1(.2) as one of their science electives. Double honours students who choose to do a research thesis in chemistry will also take CHEM 4498.0 and 4500.0. If they choose to do a research thesis in the other subject, they must take an additional six (6) credit hours in chemistry courses.

- Notes:**
- Students who fail the laboratory component of a course will fail the course.
 - All of the following courses have a 3 hour per week lab component unless otherwise noted, i.e., CHEM 1220.1(.2)/1221.1(.2), 380.1(.2), and 4498.0.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, CHEM 1010.1(.2) was formerly CHE 010.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF

COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
CHE 010	CHEM 1010	CHE 432	CHEM 3432
CHE 210	CHEM 1210	CHE 443	CHEM 3443
CHE 211	CHEM 1211	CHE 445	CHEM 3445
CHE 212	CHEM 1212	CHE 451	CHEM 3451
CHE 213	CHEM 1213	CHE 412	CHEM 4412
CHE 220	CHEM 1220	CHE 413	CHEM 4413
CHE 221	CHEM 1221	CHE 414	CHEM 4414
CHE 312	CHEM 2312	CHE 421	CHEM 4421
CHE 313	CHEM 2313	CHE 422	CHEM 4422
CHE 332	CHEM 2332	CHE 433	CHEM 4433
CHE 333	CHEM 2333	CHE 444	CHEM 4444
CHE 344	CHEM 2344	CHE 445	CHEM 3455
CHE 345	CHEM 2345	CHE 451	CHEM 3451
CHE 346	CHEM 2346	CHE 452	CHEM 4452
CHE 373	CHEM 2373	CHE 498	CHEM 4498
CHE 374	CHEM 2374	CHE 500	CHEM 4500
CHE 375	CHEM 2375	CHE 611	CHEM 6611
CHE 376	CHEM 2376	CHE 631	CHEM 6631
CHE 380	CHEM 2380	CHE 654	CHEM 6641
CHE 322	CHEM 3322	CHE 653	CHEM 6653
CHE 324	CHEM 3324		

0010.0 Introduction to Chemistry

The fundamental laws and principles of chemistry are explored and applied in the study of selected non-metals, metals and their compounds.

Note: This is a preparatory course. It does not carry a credit value; therefore, it cannot be counted in the number of credits required for a degree, diploma or certificate.

1210.1(2) General Chemistry I

Prerequisite: The equivalent of Nova Scotia Chemistry 12 Academic or equivalent; and MATH 1210.1(2) or CSCI 1226.1(2) which may be taken concurrently.

An introduction to general topics in chemistry including composition and properties of matter, reaction stoichiometry, chemical reactions, atomic structure, the periodic table, chemical bonding, molecular geometry and gases. The course is intended for students interested in the physical sciences, life sciences and for students in the engineering program.

Note: Students intending to enrol in CHEM 1211.1(2) or CHEM 1213.1(2) in the second semester are advised to take MATH 1210.1(2) and not CSCI 1226.1(2).

Note: Credit is given for one of CHEM 1211.1(2), CHEM 1212.1(2), or CHEM 1213.1(2).

1211.1(2) General Chemistry II for Physical Sciences

Prerequisite: CHEM 1210.1(2) and MATH 1210.1(2)/1211.1(2) which may be taken concurrently.

A continuation of the introduction to general topics in chemistry including chemical equilibrium and applications to aqueous systems, physical equilibrium, thermodynamics, reaction kinetics, molecular structure, electrochemistry and organic chemistry. Emphasis is placed on applications to the physical sciences, including chemistry, geology and physics.

Note: This course is intended for students in the physical sciences.

1212.1(2) General Chemistry II for Life Sciences

Prerequisite: CHEM 1210.1(2) and MATH 1210.1(2)/1211.1(2) or CSCI 1226.1(2)/1227.1(2) which may be taken concurrently.

A continuation of the introduction to general topics in chemistry including chemical equilibrium and applications to aqueous systems, physical equilibrium, thermodynamics, reaction kinetics, molecular structure, electrochemistry and organic chemistry. Emphasis is placed on applications to the life sciences, including biology.

Note: This course is intended for students in the life sciences.

1213.1(2) General Chemistry II for Engineering

Prerequisite: CHEM 1210.1(2); and MATH 1210.1(2)/1211.1(2) which may be taken concurrently.

A continuation of the introduction to general topics in chemistry including chemical equilibrium and applications to aqueous systems, physical equilibrium, thermodynamics, reaction kinetics, molecular structure, electrochemistry and organic chemistry. Emphasis is placed on applications to the related field of engineering.

Note: This course is intended for students in the engineering programs.

1220.1(2) Chemistry and Industry

This course is intended as an introduction to general chemistry for students who have little background in science and mathematics. The course focuses on commercially important industries and technologies and the role and importance of chemistry in these industries. Particular emphasis is placed on the role of chemistry in innovative technologies. Topics may include chemistry and the industrial world, or chemistry and material science, and/or chemistry and high technology.

Note: This course is for non-science students for whom it constitutes a science elective. Science students cannot use this course as a science elective.

1221.1.(2) Chemistry of Life

This course is intended as an introduction to general chemistry for students who have little background in science and mathematics. The course will focus on the role and importance of chemistry in today's world. Topics may include chemistry and the environment, chemistry and the medical sciences, or chemistry and material science.

Note: This course is for non-science students for whom it constitutes a science elective. Science students cannot use this course as a science elective. There is no lab component for this course.

2312.1.(2) Thermodynamics

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2), and MATH 1210.1(.2)/1211.1(.2) or 1212.1 (.2).

In this introduction to Physical Chemistry, a study of the underlying physical principles that govern the properties and behaviour of chemical systems from a *macroscopic* viewpoint will be undertaken. Topics covered will include: Laws of Thermodynamics; Temperature; Work, Heat, Enthalpy; Entropy; Carnot Cycle; Free Energy, Colligative Properties of Solutions; Phase Equilibrium; Phase Diagrams of Pure Substances and Simple Mixtures; Chemical Potentials and Chemical Equilibrium.

2313.1.(2) Chemical Reaction Kinetics

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2), and MATH 1210.1(.2)/1211.1(.2).

In this second course in Physical Chemistry, the focus will be on processes by which change occurs in chemical systems and the rates of these changes. The first part of the course examines molecular motion in gases and liquids and the mobility of ions in solution. In the second part, the focus will be on the branch of Physical Chemistry called Kinetics. The rates and mechanisms of simple and complex chemical reactions will be examined, including polymerization and reactions at surfaces. Topics may include catalysis and kinetics of crystallization.

2332.1.(2) Introductory Analytical Chemistry: Wet Methods

[GEOL 2332.1(.2)] (see immediately above re # change)

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2).

An integrated lecture-laboratory course with emphasis on basic analytical methods. The practical application of analytical methods will be stressed by analyzing geological and environmental samples. Lecture topics will include treatment of data, theory of gravimetric and titrimetric analyses and chemical equilibria.

2333.1.(2) Introductory Analytical Chemistry: Instrumental Methods [GEOL 2333.1(.2)]

Prerequisite: CHEM 2332.1(.2).

An integrated lecture-laboratory course with emphasis on basic analytical methods. The practical application of analytical methods will be stressed by analyzing geological and environmental samples. Lecture topics will include an introduction to electrochemistry, spectroscopy, chromatography and extractions.

2344.1.(2) Organic Chemistry I

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2).

An introduction to organic chemistry designed for all students in life science, physical science, general science, engineering or non-science. Topics covered include the structure, nomenclature, physical properties, synthesis, reactions and spectroscopic properties of all classes of hydrocarbons: alkanes, alkenes, alkynes, arenes, alicyclic compounds, polyenes, as well as the principle heterocyclic compounds. The course emphasizes the mechanistic approach to the reactivity of organic compounds and provides a thorough introduction to stereochemistry and nuclear magnetic resonance.

2345.1.(2) Organic Chemistry IIA

Prerequisite: CHEM 2344.1(.2).

A course for chemistry majors and other physical science students intending to go on to more advanced organic chemistry. Introduction to the mechanisms of the reactions of monofunctional organic compounds. Introduction to stereochemistry. Simple spectroscopy. Macromolecules. Introduction to synthesis design.

2346.1.(2) Organic Chemistry IIB

Prerequisite: CHEM 2344.1(.2).

A course for students in the life sciences. The course covers the chemistry of the principle functional groups in organic molecules with special emphasis on the relevance of organic functional group chemistry to molecules of biological importance. The functional group classes include: alcohols, thiols, phenols, ethers, epoxides, aldehydes, ketones, carboxylic acids, esters, amides, anhydrides, acid chlorides, nitriles, amines, amino acids, proteins, and carbohydrates. The course emphasizes the mechanistic approach to functional group reactivity and makes the connection to biochemistry at every opportunity. The stereochemical features of molecules of biological interest are emphasized.

2373.1(.2) Environmental Chemistry I

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2).

A first course in those aspects of chemistry useful for studying environmental science and engineering. The topics include: a review of selected concepts from the general chemistry course; thermodynamic concepts of enthalpy and free energy; vapour pressure of liquids; surface tension; binary mixtures; osmosis; dialysis; solvent extraction, electrochemical cells; first and second order kinetics, catalysis; absorption; degradation of aliphatic, aromatic and polycyclic organic compounds including trace organics, detergents, soaps and pesticides.

2374.1(.2) Environmental Chemistry II

Prerequisite: CHEM 2373.1(.2).

The course attempts to bring into focus the chemistry which is particularly valuable to environmental science and engineering. The topics include: applications of equilibrium chemistry; colloids in liquid and gas phases; enzymes and their reactions with carbohydrates, proteins, fats and oils; nuclear fission; nuclear fusion; and the effect of radiation on man.

2380.1(.2) Communication in Chemistry

Prerequisite: ENGL 1205.1(.2) and CHEM 1210.1(.2)

This course will provide the skills necessary to communicate scientific information in a logical, clear manner. Emphasis will be on written communication; students will learn proper format for reports, manuals, lab assignments, and scientific journal articles. Students will learn how to perform background research using the Library and electronic resources, and will present technical documents during the term.

Note: This course is intended primarily for chemistry students but is open to students in other disciplines.

3322.1(.2) Inorganic Chemistry I

Prerequisite: CHEM 1211.1(.2) or 1212.1(.2) or 1213.1(.2).

This course will examine the structure and bonding of the main group elements. Topics covered will include electronic structure of atoms, bonding theories, ionic solids, and an introduction to point group symmetry and group theory; descriptive chemistry of the main group elements and their compounds.

3324.1(.2) Inorganic Chemistry II

Prerequisite: CHEM 3322.1(.2).

This course examines the structure, bonding, and reactivity of transition metal complexes. Topics will include crystal field theory, ligand field theory, magnetism and electronic structure of coordination compounds; oxidation and reduction and substitution reactions of square planar and octahedral complexes. Ligands and an introduction to organometallic chemistry will also be covered.

3432.1(.2) [6632.1(.2)] Instrumental Analysis I

Prerequisite: CHEM 2333.1(.2).

Emphasis will be placed on i) separation techniques including high performance and gas chromatography; ii) modern electro-chemical techniques including differential pulse voltammetry and stripping analysis; iii) analogue circuits and devices and digital electronics.

3443.1(.2) [6643.1(.2)] Organic Reaction Mechanisms

Prerequisite: CHEM 2345.1(.2).

A study of the more important mechanisms of reactions of organic molecules and the methods by which they are elucidated: applications of kinetic data, isotope effects, linear free energy relationships, orbital symmetry control and acid and base catalysis.

3445.1(.2) [6645.1(.2)] Organic Spectroscopy

Prerequisite: CHEM 2345.1(.2).

An introduction to the interpretation of ^1H and ^{13}C nuclear magnetic resonance spectra. Infrared spectroscopy, mass spectrometry, and ultra-violet spectrophotometry will also be applied to the problems of organic and organometallic structural determination.

3451.1(.2) [6651.1(.2)] Introductory Biochemistry

Prerequisite: CHEM 2345.1(.2) or 2346.1(.2).

This course reviews and/or presents an introduction to the chemistry and biochemistry of macromolecules such as proteins, enzymes, simple and complex carbohydrates, lipids, nucleic acids, and coenzymes. A relationship between the molecular structure of a given macromolecule, its properties, and its function in the living system is explored. The laboratory work concentrates on the isolation, purification, and analysis of naturally occurring macromolecules and includes study of their properties, using micro chemical measurements.

4412.1(.2) [6612.1(.2)] Quantum Chemistry

Prerequisite: CHEM 2312.1(.2) and 2313.1(.2), MATH 310.1(.2) and 311.1(.2).

The basic principles of quantum physics are used to develop an understanding of atomic and molecular structure.

4413.1(.2) [6613.1(.2)] Physical Chemistry

Prerequisite: CHEM 2312.1(.2) and 2313.1(.2), MATH 2310.1(.2) and 2311.1(.2).

An introduction to statistical thermodynamics and the study of chemical reaction rates and mechanisms.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4414.1(2) [6614.1(2)] Symmetry and Chemical Applications of Group Theory

Prerequisite: CHEM 4412.1(2) or permission of instructor.

An introduction to symmetry and group theory for the experimental chemist. Applications of point groups and space groups in organic chemistry, inorganic chemistry, molecular spectroscopy, atomic and molecular structure and crystallography.

4421.1(2) Organometallic Chemistry

Prerequisite: CHEM 3324.1(2) or permission of the instructor.

This course will deal with synthesis, structure, and reactivity of organotransition metal complexes. Topics will include transition metal-alkyls, -carbonyls, -alkenes, -alkynes and π -bonded complexes, fundamental reactions and applications to organic synthesis and catalysis. Characterization of organometallic complexes using spectroscopic techniques (IR, Raman, NMR, and ESR) and X-ray crystallography will also be covered.

4422.1(2) [6622.1(2)] Advanced Topics in Inorganic Chemistry

Prerequisite: CHEM 3324.1(2) or permission of the instructor.

Current topics and applications of inorganic chemistry will be covered, and may include the following: cluster chemistry, chemistry of the lanthanides and actinides, inorganic and organometallic materials, bioinorganic chemistry and inorganic photochemistry.

4433.1(2) [6633.1(2)] Instrumental Analysis II

Prerequisite: CHEM 2333.1(2).

Emphasis will be placed on (i) atomic spectroscopy including atomic absorption and emission; (ii) x-ray fluorescence; (iii) neutron activation analysis; (iv) mass spectrometry.

4444.1(2) [6644.1(2)] Synthesis in Organic Chemistry

Prerequisite: CHEM 2345.1(2).

A study of the principles involved in the planning and execution of the synthesis of organic molecules. Laboratory experiments are designed so that students learn to identify their products by the use of spectroscopic and other techniques.

4452.1(2) [6652.1(2)] Biochemistry: Metabolism

Prerequisite: CHEM 2345.1(2) or 2346.1(2).

A course presenting principles of metabolism of biomolecules involved in energy production, formation of biosynthetic substrates and metabolism of nucleic acids. Both catabolic and anabolic processes as well as transport of biomolecules within cells and organs are considered.

4498.0 Selected Research Topics in Chemistry

Prerequisite: this is a final year course for honours students and a recommended additional Chemistry credit for majors in Chemistry in their final year.

A weekly seminar course that covers a broad range of research topics that are of current relevance, including ethics in science. Speakers include faculty from within and outside Saint Mary's University and students will normally be expected to present two seminars.

4500.0 Research Thesis

Prerequisite: restricted to final year students in the honours program.

Students will carry out a research project under the direction of one of the members of the Department and will prepare a thesis on their work. The thesis is presented orally.

Lab 6 hrs. a week (minimum). 2 semesters.

CHEM 6611.0 Selected Topics in Physical Chemistry

Prerequisite: Permission of the instructor.

A course on special topics selected from advanced areas of applied physical chemistry.

CHEM 6631.0 Selected Topics in Analytical Chemistry

Prerequisite: Permission of the instructor.

A course dealing with special topics in analytical techniques.

CHEM 6641.0 Selected Topics in Organic Chemistry

Prerequisite: Permission of the instructor.

Selected topics in organic synthesis including stereochemistry, heterocyclic compounds and natural products.

CHEM 6653.0 Selected Topics in Biochemistry

Prerequisite: Permission of the instructor.

A course that deals with special topics in biochemistry.

Recommended Program

The following programs are recommended by the Department of Chemistry for chemistry students taking the general science degree, the degree with a major, or an honours degree.

Scheme A: General Science Degree with Chemistry Concentration**Year 1**

1. CHEM 1210.1(2) and 1211.1(2)
2. MATH 1210.1(2) and 1211.1(2)
3. six (6) credit hours in non-chemistry science electives
4. six (6) credit hours in humanities
5. ENGL 1205.1(2) and three (3) credit hours in humanities

Year 2

- Twelve (12) credit hours from:
 - CHEM 2312.1(.2)/2313.1(.2)
 - CHEM 3322.1(.2)/3324.1(.2)
 - CHEM 2332.1(.2)/2333.1(.2)
 - CHEM 2344.1(.2)/2345.1(.2)/2346.1(.2)
- six (6) credit hours non-chemistry science electives
- six (6) credit hours in humanities
- six (6) credit hours in electives

Year 3

- six (6) credit hours in chemistry electives
- six (6) credit hours in chemistry electives
- six (6) credit hours in non-chemistry electives
- six (6) credit hours in non-chemistry electives
- six (6) credit hours in electives

Scheme B: Science Degree with a Major in Chemistry**Year 1**

- CHEM 1210.1(.2) and 1211.1(.2)
- PHYS 1210.1(.2) and 1211.1(.2)
- MATH 1210.1(.2) and 1211.1(.2)
- ENGL 1205.1(.2) and three (3) credit hours in humanities
- six (6) credit hours in humanities

Year 2

- CHEM 2312.1(.2) and 2313.1(.2)
- CHEM 2344.1(.2) and 2345.1(.2)
- CHEM 3322.1(.2) and 3324.1(.2) or CHEM 2332.1(.2) and 2333.1(.2)
- six (6) credit hours in electives
- three (3) credit hours in non-chemistry electives
- three (3) credit hours in Mathematics, Computing Science, or Statistics

Years 3 and 4

- CHEM 3322.1(.2) and 3324.1(.2) or CHEM 2332.1(.2) and 2333.1(.2)
- CHEM 3451.1(.2) or 4452.1(.2)
- nine (9) credit hours from:
 - CHEM 4412.1(.2) CHEM 4433.1(.2)
 - CHEM 4413.1(.2) CHEM 3443.1(.2)
 - CHEM 4414.1(.2) CHEM 4444.1(.2)
 - CHEM 4421.1(.2) CHEM 3445.1(.2)
 - CHEM 4422.1(.2) CHEM 3451.1(.2)
 - CHEM 3432.1(.2) CHEM 4452.1(.2)
- Electives in order to fulfill the requirements outlined in the Faculty of Science regulations, up to twelve (12) credit hours of which can be in chemistry.

Scheme C: Science Degree with Honours in Chemistry

(Note: Year 1 is as in Scheme B.)

Year 2

- CHEM 2312.1(.2) and 2313.1(.2)
- CHEM 2344.1(.2) and 2345.1(.2)
- CHEM 3322.1(.2) and 3324.1(.2) or CHEM 2332.1(.2) and 2333.1(.2)
- MATH 2310.1(.2) and 2311.1(.2)
- six (6) credit hours in humanities

Year 3

- CHEM 2332.1(.2) and 2333.1(.2) or CHEM 3322.1(.2) and 3324.1(.2)
- CHEM 4412.1(.2)
- CHEM 3451.1(.2) or 4452.1(.2)
- six (6) credit hours from:
 - one of CHEM 4421.1(.2) or 4422.1(.2) or 3445.1(.2)
 - one of CHEM 3432.1(.2) or 4433.1(.2)
 - one of CHEM 3443.1(.2) or 4444.1(.2)
- six (6) credit hours in electives
- six (6) credit hours in non-chemistry science electives

Year 4

- CHEM 4498.0
- CHEM 4500.0
- six (6) credit hours from:
 - one of CHEM 4421.1(.2) or 4422.1(.2) or 3445.1(.2)
 - one of CHEM 3432.1(.2) or 4433.1(.2)
 - one of CHEM 3443.1(.2) or 4444.1(.2)
- six (6) credit hours in non-chemistry science electives
- six (6) credit hours in electives

Scheme D: Co-operative Education in Chemistry (COEC)

Available at both the general and major/honours level, this program integrates on-the-job work experience and academic studies. Upon completion of one of the Co-operative Education programs, the student receives the Bachelor of Science degree in chemistry (with a major or honours) and with the added qualification of "Co-operative Education".

Further details can be found under the Faculty of Science Co-operative Education regulations in Section 3 of this *Academic Calendar*.

Commercial Law (CMLW)

Associate Professor B. Anderson

These courses are administered by the Department of Accounting.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, CMLW 2201.1(.2) was formerly CML 201.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
CML 201	CMLW 2201
CML 202	CMLW 3202
CML 601	CMLW 6601

2201.1(.2) Legal Aspects of Business – Part I

Prerequisite: ECON1201.1 (.2) and 1202.1(.2) or appropriate work experience, determined in advance of registration by the Chairperson of the Department of Accounting.

An introduction to the essential legal aspects of commerce, in particular, the law of contract. The essential elements of a contract will be discussed along with the requirements for enforcing a contract, the discharge of contracts, the assignment of contractual rights and breach of contract. The workings of the legal system will be explored. In particular, the student will be introduced to the Charter of Rights and Freedoms, the sources of law in the Canadian legal system, and the important role played by the courts in the administration of justice. In addition, the student will be introduced to the law of torts with particular attention paid to the law of negligence.

3202.1(.2) Legal Aspects of Business – Part II

Prerequisite: CMLW 2201.1(.2).

A further examination of some of the legal aspects of commerce. Topics covered include agency, bailment, insurance, real estate, bankruptcy, creditor's rights and contracts for the sale of goods. In addition, there will be an examination of the different forms of business organizations and the methods of payment used by those organizations.

The following course is available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

6601.1(.2) Commercial Law

Prerequisite: completion of all required 5000-level MBA courses or permission of MBA Director.

A survey of the legal aspects of business such as contracts, corporate law, competition, sale of goods and consumer protection, negotiable instruments, employment, real estate, insurance and creditor rights. The workings of the legal system will also be explored.

Communications (COMM)

Associate Professor L. Rieber
Assistant Professor V. Creelman

These courses are administered by the Department of Marketing.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, COMM 2293.1(.2) was formerly COM 293.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
COM 293	COMM 2293
COM 394	COMM 3394
COM 675	COMM 6675

2293.1(.2) Communications

Prerequisite: ENGL 1201.1(.2) or both MGMT 1281.1(.2) and CISY 1225.1(.2).

This course emphasizes professional writing skills and prepares students to communicate effectively. Students learn to write clear, concise memoranda, letters, reports, resumes, and other documents. The course focuses mainly on written communication skills and strategies.

3394.1(.2) Oral Communications and Presentation Techniques

Prerequisite: COMM 2293.1(.2).

This course focuses on oral communication in a business setting. The course will give students the opportunity to learn techniques and strategies related to the development, organization, and delivery of oral communications with an emphasis on business presentations. Topics will include topic selection and refinement, development of support material, and presentation polishing and delivery. Students will participate in and evaluate presentations.

The following course is available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

6675.1(.2) Advanced Managerial Communications

Prerequisite: completion of all required 5000-level MBA courses and permission of MBA Director.

This course will help you deal effectively with the complexities of workplace communications and to develop communication skills through case analysis, strategic planning, and problem-solving. In the course, you will engage in such activities as making oral presentations; conducting interviews; negotiating agreements; producing commercial messages; writing letters, memos, press releases and short reports; and using electronic media.

Classes and lab 3 hrs. each a week. 1 semester.

Economics (ECON)

Chairperson, Professor	S. Amirkhalkhali
Professors	A. Akbari, P. Arya, A. Dar, E. Doak, M. MacDonald, A. Mukhopadhyay
Associate Professors	S. Novkovic, N. Sharif, J. Taheri
Assistant Professor	V. Dang, M. Raymond
Adjunct Professors	M. Foster, C. Wilson
Professor Emeritus	A. Harvey

Department Statement

Economics has been defined as “the study of how men and society end up choosing, with or without the use of money, the employment of scarce productive resources, which could have alternative uses, to produce various commodities over time and distribute them for consumption, now and in the future, among various people and groups in society.” (Paul A. Samuelson)

Economics borders on other academic disciplines, such as political science, sociology, psychology, anthropology and business administration. It also draws heavily on the study of history, statistics and mathematics.

Students who desire some minimum understanding of economics are encouraged to consider taking one or two courses at the 1200 level. Entrance into higher level courses ordinarily requires a full-year of principles of economics, but this may be waived with the approval of the Department.

The Economics Department is able to offer students with a special interest in economics the opportunity to undertake some concentration beyond the core of required courses in the following areas and associated courses.

Money and Banking: ECON 3307.1(.2), 4407.1(.2)
 Public Finance: ECON 3318.1(.2), 3319.1(.2)
 International: ECON 3365.1(.2), 4413.1(.2), 4414.1(.2)
 Quantitative: ECON 3302.1(.2), 3303.1(.2), 4403.1(.2), 4409.1(.2)
 Urban-Regional: ECON 3324.1(.2), 3325.1(.2), 4430.1(.2), 4450.1(.2)
 Natural Resources and Environment: ECON 3361.1(.2), 3362.1(.2), 3363.1(.2)
 Comparative Systems: ECON 3315.1(.2), 3323.1(.2)
 Cost-Benefit Analysis and Health: ECON 3364.1(.2), 3366.1(.2)
 History and Development: ECON 3306.1(.2), 3310.1(.2), 3317.1(.2), 4406.1(.2), 4410.1(.2)
 Labour: ECON 3340.1(.2), 3341.1(.2)
 Industrial Organization: ECON 3316.1(.2)
 Other theory courses: ECON 3312.1(.2), 4400.1(.2), 4401.1(.2), 4404.1(.2), 4405.1(.2), 4412.1(.2)

Students who desire a major in economics are encouraged to enrol in an appropriate program under the guidance of a faculty advisor. There are two general programs: (1)

Bachelor of Arts with a major in economics, and (2)
 Bachelor of Commerce with a major in economics.

See Faculty of Arts and Faculty of Commerce, Section 3 of this *Calendar*, for the basic requirements for these degrees.

Regardless of the degree sought, the Department of Economics requires that the program of study leading to a major in economics include the following:

- a. ENGL 1205.1(.2).
- b. Six (6) credit hours of university mathematics beyond the level of difficulty of Nova Scotia Grade 12 Mathematics or equivalent. [MGSC/ECON 1205.1(.2) and CISY 1225.1(.2), which are required of all Bachelor of Commerce students and recommended for all Bachelor of Arts majors in economics, satisfy this requirement.]
- c. Six (6) credit hours in the humanities (classics, history, philosophy and religious studies), or languages (English or modern languages). In special circumstances, with the permission of the Chairperson, all or part of this requirement may be fulfilled from among the following: ECON 3306.1(.2); 3312.1(.2); 3315.1(.2); 3323.1(.2); 4406.1(.2); and 4412.1(.2). Philosophy 1200.0 does not satisfy this requirement.
- d. Six (6) credit hours from the social sciences other than economics.
- e. The following economics courses:
 ECON 1201.1(.2) Principles of Economics: Micro
 ECON 1202.1(.2) Principles of Economics: Macro
 ECON 1206.1(.2) Introduction to Quantitative Methods for Economists II or
 MGSC 1206.1(.2) Introduction to Quantitative Methods II
 ECON 2207.1(.2) Introductory Statistics for Economics or
 MGSC 2207.1(.2) Introductory Statistics
 ECON 3300.1(.2) Intermediate Microeconomic Theory
 ECON 3301.1(.2) Intermediate Macroeconomic Theory
 ECON 4400.1(.2) Advanced Microeconomic Theory or
 ECON 4401.1(.2) Advanced Macroeconomic Theory.
 One additional course (three (3) credit hours) in economics at the 4000-level.
 Four additional courses [three (3) credit hours each] in economics electives [twelve (12) credit hours].

In addition, students must satisfy conditions set down by the Faculty in which they enrol. Bachelor of Arts students majoring in economics are especially advised to consult Faculty of Arts requirement 3c when fulfilling the above regulation.

For suggested courses leading to a Bachelor of Arts Degree with a Major in Economics, consult the Chairperson.

A Concentration for Students in the Bachelor of Arts-General Program

To obtain a concentration in Economics in partial fulfillment of the B.A. General degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours, a minimum of twenty-four (24) credit hours in Economics is required; also a minimum cumulative grade point average of 2.00. Further details are available from the chairperson.

For suggested courses for a Bachelor of Commerce degree with a major in economics, see the Faculty of Commerce Section of this *Calendar*.

Honours in Economics

The Department of Economics offers honours programs to students enrolled in either the Faculty of Arts or the Faculty of Commerce. Descriptions of the general requirements for the degrees of Bachelor of Arts (Honours) and of Bachelor of Commerce (Honours) are contained in Section 3. In addition to these general requirements, for graduation with honours in economics, all students must comply with the following:

- a. Students must satisfy the applicable requirements for a major in economics as outlined on the preceding pages.
- b. The sixty (60) credit hours in economics presented for honours must include:
 - (i) ECON 1201.1(.2), ECON 1202.1(.2), ECON/MGSC 1206.1(.2), and ECON/MGSC 2207.1(.2), or equivalent;
 - (ii) ECON 3300.1(.2) and ECON 4400.1(.2);
 - (iii) ECON 3301.1(.2) and ECON 4401.1(.2);
 - (iv) ECON 3302.1(.2), ECON 3303.1(.2), and ECON 4403.1(.2), or nine (9) credit hours from the Mathematics and Computing Science Department with the approval of the Chairperson of the Economics Department;
 - (v) ECON 4498.1(.2);
 - (vi) ECON 4499.1(.2) or another advanced economics three (3) credit hours approved by the Chairperson of the Department;
 - (vii) either ECON 3306.1(.2), ECON 3310.1(.2), ECON 3312.1(.2), ECON 3315.1(.2), ECON 3323.1(.2), ECON 4406.1(.2), ECON 4412.1(.2), or another three (3) economics credit hours approved by the Chairperson;
 - (viii) ECON 4404.1(.2) or ECON 4405.1(.2).
- c. With the approval of the Chairperson of the Economics Department, a student may be permitted to substitute up to twelve (12) credit hours from a related subject area as part of the sixty (60) credit hours in economics presented for honours.
- d. Commerce students doing honours in economics are permitted to count nine (9) economics credit hours at the 3000-level or above as a non-commerce elective.
- e. The recommended course selection and sequence for the degree of Bachelor of Commerce (Honours: Economics) can be found in the Bachelor of Commerce section of this *Calendar*.

Minor in Economics

Students in the Faculties of Arts and Science have the option of declaring a minor in Economics. To satisfy the requirements for this minor students must complete twenty-four (24) credit hours in Economics, at least twelve (12) credit hours of which must be at the 3000-level or above.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, ECON 1201.1(.2) was formerly ECO 201.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
ECO 201	ECON 1201	ECO 400	ECON 4400
ECO 202	ECON 1202	ECO 401	ECON 4401
ECO 205	ECON 1205	ECO 403	ECON 4403
ECO 206	ECON 1206	ECO 404	ECON 4404
ECO 207	ECON 2207	ECO 405	ECON 4405
ECO 300	ECON 3300	ECO 406	ECON 4406
ECO 301	ECON 3301	ECO 407	ECON 4407
ECO 302	ECON 3302	ECO 409	ECON 4409
ECO 303	ECON 3303	ECO 410	ECON 4410
ECO 306	ECON 3306	ECO 412	ECON 4412
ECO 307	ECON 3307	ECO 413	ECON 4413
ECO 310	ECON 3310	ECO 414	ECON 4414
ECO 312	ECON 3312	ECO 430	ECON 4430
ECO 315	ECON 3315	ECO 450	ECON 4450
ECO 316	ECON 3316	ECO 460	ECON 4460
ECO 317	ECON 3317	ECO 475	ECON 4475
ECO 318	ECON 3318	ECO 490	ECON 4490
ECO 319	ECON 3319	ECO 492	ECON 4492
ECO 322	ECON 3322	ECO 498	ECON 4498
ECO 323	ECON 3323	ECO 499	ECON 4499
ECO 324	ECON 3324	ECO 500	ECON 5500
ECO 325	ECON 3325	ECO 501	ECON 5501
ECO 340	ECON 3340	ECO 600	ECON 6600
ECO 341	ECON 3341	ECO 609	ECON 6609

ECO 349	ECON 3349	ECO 611	ECON 6611
ECO 361	ECON 3361	ECO 620	ECON 6620
ECO 362	ECON 3362	ECO 622	ECON 6622
ECO 363	ECON 3363	ECO 663	ECON 6663
ECO 364	ECON 3364	ECO 665	ECON 6665
ECO 365	ECON 3365	ECO 690	ECON 6690
ECO 366	ECON 3366	ECO 692	ECON 6692
		ECO 699	ECON 6699

1201.1(2) Principles of Economics: Micro

The objective of this course is to introduce students to the basic principles of microeconomics. In particular, the course focuses on the study of the economic behaviour of individual households and firms. It also focuses on the determination of the market prices of individual goods and services under different market structures.

1202.1(2) Principles of Economics: Macro

The objective of this course is to introduce students to the basic principles of macroeconomics, i.e., the study of the economy as a whole and to show the relevance of these principles for an understanding of current economic issues. Topics include: national income, the price level, employment, money and banking, monetary policy and fiscal policy, international trade and economic growth.

1205.1(2) Quantitative Methods I

Note: This is the same course as MGSC 1205.1(2).

1206.1(2) Quantitative Methods II

Note: This is the same course as MGSC 1206.1(2).

2207.1(2) Introductory Statistics

Note: This is the same course as MGSC 2207.1(2).

3300.1(2) Intermediate Microeconomic Theory

Prerequisite: ECON 1201.1(2) and either ECON/MGSC 1206.1(2).

Theory of consumer behaviour and demand, theory of production and cost, behaviour of the firm, theory of price and output under different market structures, and the theory of factor markets.

3301.1(2) Intermediate Macroeconomic Theory

Prerequisite: ECON 1202.1(2) and either ECON/MGSC 1206.1(2).

Measurement of macroeconomic variables; models of aggregate income and price determination; unemployment and inflation; macroeconomic policy debates.

3302.1(2) Mathematical Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2); and ECON 1206.1(2) or equivalent.

An introduction of the role of mathematics in economic analysis. Mathematical topics include linear algebra, partial differentiation, implicit function theorems and comparative statics analysis, unconstrained and constrained optimization theory.

3303.1(2) Intermediate Economic Statistics

Prerequisite: ECON 2207.1(2) or equivalent.

A further study of the basic concepts of statistics and its application to the solution of business and economic problems: review of probability, random variables and their distribution, sampling and sampling distributions, normal and associated distribution, statistical inference, simple and multiple regression and related topics.

Note: This is the same course as MGSC 3303.1(2).

3306.1(2) North American Economic History

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course surveys growth, fluctuation and structural change in the North American economy, from the Revolution Era to the Great Depression. Topics such as slavery, the Civil War, industrialization, railroads and the capital market will be included.

3307.1(2) Money and Banking

Prerequisite: ECON 1201.1(2) and 1202.1(2).

Money and the payments system, development of banking in Canada, financial instruments, theory of banks' intermediation, chartered banks structure, operation and competition, governments and Canadian financial markets.

3310.1(2) Development Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2).

Alternative theories of growth and development, including economic and non-economic determinants of growth in developing countries, the role of government in development policies and lessons from experience in growth and change.

3312.1(2) History of Economic Thought

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course traces the development of economic ideas from the middle ages to the middle of the 19th century (Karl Marx). Students will be introduced to the contributions of economic ideas of these times to contemporary thinking.

3315.1(2) Comparative Economic Systems

Prerequisite: ECON 1201.1(2) and 1202.1(2).

An examination of how different economic systems choose to solve the basic economic problems of resource allocation and distribution of income and wealth. Theoretical models of (idealized) economic systems as developed by the Classical economists (e.g., Smith, Ricardo, Mill), Marx, Schumpeter, Lange, Keynes, etc., will be studied. The structure and performance of existing systems (e.g., Western managed capitalism, Yugoslavian market socialism and Eastern European command socialism) will also be analyzed.

3316.1(2) Industrial Organization

Prerequisite: ECON 1201.1(2) and 1202.1(2).

The course begins by laying out the arguments for competitive market processes and then proceeds to investigate the determinants of real-world industrial market structures, the behaviour of firms, and efficiency in resource allocation.

3317.1(2) The Economic History of Europe

Prerequisite: ECON 1201.1(2) and 1202.1(2).

An examination of the economic evolution of Modern Europe, with major concentration on the period from 1750 to the present. The course does not deal with the chronological development but rather emphasizes those aspects of history which are reflected in contemporary institutions, practices and policies.

3318.1(2) Public Finance: Expenditure

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course is an introduction to Public Finance with special emphasis on the theory of government expenditures. Topics may include public goods, externalities, income redistribution, and fiscal federalism.

3319.1(2) Public Finance: Taxation

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course is an introduction to Public Finance with special emphasis on government revenues. Topics may include tax incidence theory, personal income taxation, sales and excise taxes, property tax, corporation income tax, public debt, and stabilization policy.

3322.1(2) Canadian Economic Issues

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course deals with economic issues relevant to business and public policy. Topics may include regulation of industry and competition policy, the labour market and collective bargaining, environmental policy, public debt, fiscal federalism, stabilization policy, economic growth, and other issues of current interest.

3323.1(2) Economies in Transition

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course treats problems of economic transition through case studies of the countries undergoing the transformation from plan to market. In particular, it offers the treatment of micro and macro economic problems of transition from socialist central planning to a market economy. The main focus is on issues of property rights, privatization, and institutional and legal framework. Besides those, different approaches to transition itself will be discussed, namely the shock therapy vs. gradualism, their costs and benefits.

3324.1(2) The Atlantic Economy

Prerequisite: ECON 1201.1(2) and 1202.1(2).

Analysis of the structure, development and performance of the economy of the Atlantic region. Topics covered include: economic history of the region, current structure of the regional economy and state of economic development, sub-regional differences in economic structure and performance, external trade linkages, demographic and labour market characteristics, the role of government in the development process.

3325.1(2) Atlantic Economy Seminar

Prerequisite: ECON1201.1 (2) and 1202.1(2).

This course will examine in detail a small number of current economic issues in the Atlantic region. General topic areas, from which specific issues may be chosen, include: the impact on the region of policies and programs of the federal government including monetary, fiscal, manpower, and development policies; the role of provincial and municipal planning and development agencies; the role of key sectors of the economy in future development, including energy, natural resources, steel, and transportation.

3340.1(2) Human Resource Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course examines a variety of topics in the study of labour markets and human resource use. Topics in any year may include: the changing composition of the labour force and structure of employment; unemployment and manpower policy; history, structure and impact of the labour movement; inequalities in the labour market; income distribution and problems of poverty; technological change; macro-economic policy and the labour market.

3341.1(2) Labour Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course focuses on the framework for analyzing labour market issues. Employment and wage determination under different labour market structures are analyzed. Emphasis is on the economics analysis of work incentives, wage differentials including the importance of human capital, unionization, internal labour markets, discrimination and segmented labour markets.

3349.1(2) Women and the Economy

[WMST 3349.1(2)]

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course will examine various aspects of women's participation in the economies of developed countries (primarily Canada) as well as developing countries. Topics in any year may include analysis of the relationship between the paid and unpaid work of women, changes in labour force participation, trends and determinants of the male/female wage gap, models of household economic decision-making, the impact of technological change, and the international gender division of labour. Particular attention will be paid to policy issues relevant to the economic status of women. The course will also examine gender bias in the theory, methodology and practice of economics and will evaluate various theoretical approaches to the study of women.

3361.1(2) Fisheries Economics

Prerequisite: ECON 1201.1(2) or permission of instructor.

This course emphasizes the application of economic concepts to problems of fishery management and development. Topics to be discussed include: common property resources, the economics of fishery regulation, socioeconomics, fish markets, and the fishery as part of the national and regional economy. Particular attention will be paid to current issues in the Atlantic Canada fishery.

Classes 1 1/2 hrs. a week. Seminars 1 1/2 hrs. a week. 1 semester.

3362.1(2) Natural Resource Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course examines the principles governing the use of natural resources, and analyzes the economics of natural resource industries such as fisheries, forestry and mining. Emphasis is placed on the economic importance of time, since resource conservation requires a balance between current and future use. Methods to achieve optimal social benefits through the economic regulation of resource exploitation will be addressed.

3363.1(2) Environmental Economics

Prerequisite: ECON 1201.1(2).

This course focuses on the application of economic principles to such environmental issues as air and water pollution, preservation of wildlife and wilderness areas, and the balance between economic activity and environmental health. The environmental impacts of fisheries, forestry, and mining are also discussed. Methods for environmental management are considered, particularly addressing the potential role of economic institutions and economic instruments. Some discussion of current Canadian policy issues is also undertaken.

3364.1(2) Cost-Benefit Analysis

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course deals with the methodology and problems underlying the evaluation of projects from the social welfare perspective. Topics will include various elements relevant to the measurement of social benefits and opportunity costs: market distortions, the role of time, distributional issues, uncertainty and risk. Applications discussed will be drawn from a number of areas, such as urban economics, health economics, the environment, forestry and fisheries.

3365.1(2) International Economic Issues

Prerequisite: ECON 1201.1(2) and 1202.1(2).

An examination of current issues and trends in international economics, covering international trade and international macroeconomics and finance subject areas. Different interpretations of recent events will be presented and critically appraised. Students will be expected to locate and analyze economic, financial and trade data.

3366.1(2) Health Economics

Prerequisite: ECON 1201.1(2) and 1202.1(2).

This course aims at developing an understanding of the economic issues underlying the provision of health care. Students will learn how to apply the tools of economic analysis to a study of the roles of, and interactions between, health-care providers, insurers (private and public), and health care demanders, as well as questions relating to alternative modes of health care financing, with emphasis on Canadian issues.

4400.1(2) Advanced Microeconomic Theory

Prerequisite: ECON 1206.1(2) or equivalent, ECON 3300.1(2) and COMM 2293.1 (2).

Advanced treatment of the theories of consumer behaviour and the firm with special emphasis on duality theory; general equilibrium theory; welfare economics. Other topics may include choice under uncertainty and game theory.

4401.1(2) Advanced Macroeconomic Theory

Prerequisite: ECON 1206.1(2) or equivalent, ECON 3301.1(2) and COMM 2293.1 (2).

Microeconomic foundations of macroeconomics; inflation; interest rates; exchange rates; labour markets and unemployment; investment and real business cycles; economic growth.

4403.1(2) Econometrics

Prerequisite: ECON 3303.1(2) and COMM 2293.1 (2).

Theory and applications of econometric models and their estimation. Topics will include generalized least squares, dynamic econometric models, the analysis of time series models, and models with qualitative variables.

4404.1(2) Special Topics in Microeconomics

Prerequisite: ECON 4400.1(2) and COMM 2293.1 (.2).

Selected topics in microeconomics chosen for rigorous, in-depth study from the following areas: input markets; general equilibrium; welfare economics; inter-temporal choice; information theory. Topics may vary depending on the interests of the students and the instructor.

4405.1(2) Special Topics in Macroeconomics

Prerequisite: ECON 4401.1(2) and COMM 2293.1 (.2).

Selected topics in macroeconomics chosen for rigorous, in-depth study from the following areas: consumption and investment; basic infinite horizon models; the overlapping generations model; business cycle theories; nominal rigidities and economic fluctuations. Topics may vary depending on the interests of the students and the instructor.

4406.1(2) Canadian Economic History in an International Context

Prerequisite: ECON 3306.1(2) and COMM 2293.1 (.2).

This course provides an intensive examination of selected issues in the economic history of North America with an emphasis on the Canadian economy in an international context. Topics such as the wheat boom, National Policy, manufacturing finance, and Staple Theories will be included.

Classes 1 1/2 hrs. a week. Seminars 1 1/2 hrs. a week. 1 semester.

4407.1(2) Monetary Economics

Prerequisite: ECON 3300.1(2), 3301.1(2) and COMM 2293.1 (.2).

The first part of the course consists of an introduction to microeconomic monetary theory including models of money demand, models of asset demand, portfolio allocation and the firm's financial problem. The second part of the course deals with macroeconomic monetary problems such as inflation, dynamic inconsistency, monetary policy objectives and conduct of monetary policy.

4409.1(2) Econometric Modeling and Forecasting**4410.1(2) Issues in Economic Development**

Prerequisite: ECON 3300.1(2), 3310.1(2) and COMM 2293.1 (.2)..

Specific problems in economic development; emphasis on government policies, foreign aid, foreign trade and their impact on underdeveloped countries.

4412.1(2) History of Modern Economic Thought

Prerequisite: ECON 3300.1(2), 3301.1(2) and COMM 2293.1 (.2).

The course traces the development of economic thought from the late 19th century (Marginalism) to the present and includes Keynesianism, Monetarism and Institutional Economics. Particular attention is paid to common themes and sources of divergence among economic doctrines.

4413.1(2) International Macroeconomics and Finance

Prerequisite: ECON 1201.1(2), 3301.1(2) and COMM 2293.1 (.2).

An introduction to the past and current issues and debates in theoretical and empirical international macroeconomics, with coverage of the foreign exchange market and associated derivative markets. Topics include the balance of payments, exchange rate determination and exchange rate and stabilization policy.

4414.1(2) International Trade

Prerequisite: ECON 3300.1(2) and COMM 2293.1 (.2).

An introduction to the theory of international trade: comparative advantage, modern refinements, gains from trade, empirical relevance of trade models, tariffs and protection, economic integration, trade and growth.

4430.1(2) Regional Economics

Prerequisite: ECON 3301.1(2), ECON 3300.1(2) and COMM 2293.1 (.2).

An examination of the theoretical basis of interregional growth and disparities, methods of regional analysis and evaluation of policies and programs affecting regions. Topics include the nature and measurement of regional disparities, regional growth theory, interregional trade and mobility theory, regional economic analysis and regional economic policy.

Note: Students who received a credit for this course when it was offered at the 3000-level will not be permitted to retake the course and receive an additional credit.

4450.1(2) Urban Economics

Prerequisite: ECON 3300.1(2) and V COMM 2293.1 (.2).

Economics of an urban economy: why it grows and how it copes with growth. Urban policies for transportation, housing, labour markets and public services are examined. Theories of location, city formation and urban spatial structure are examined.

Note: Students who received a credit for this course when it was offered at the 3000 level will not be permitted to retake the course and receive an additional credit.

4460.1(2) Issues in Economic Development

Prerequisite: ECON 3310.1(2) and COMM 2293.1 (.2).

This course analyzes selected aspects of economic development. Issues related to debt, foreign direct investment, foreign aid, technology, late industrialization, poverty and agricultural development may be covered. The course may take a specific regional focus.

4475.1(2) Business Consultancy

Prerequisite: ECON 3300.1(.2), COMM 2293.1 (.2) and permission of Chairperson.

This course allows students to gain business experience by working for clients of the Saint Mary's University Business Development Centre. Student groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and the final presentation that communicate the project's results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information see <http://www.stmarys.ca/smubdc>.

Internship. 1 semester.

4490.1(2) Seminar in Economics

Prerequisite: ECON 3300.1(.2), 3301.1(.2) and COMM 2293.1 (.2).

This course deals with selected topics in economics. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructors.

Classes and independent study. 1 semester.

4492.1(2) Directed Study

Prerequisite: ECON 1201.1(.2), 1202.1(.2), COMM 2293.1 (.2) and permission of instructor.

Intended to supplement or provide an alternative to the regular economics courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

Independent study. 1 semester.

4498.1(2) Research Seminar in Economics

Prerequisite: ECON 3300.1(.2), ECON 3301.1(.2) and COMM 2293.1 (.2).

The study of the nature of methodology of research from the standpoint of economics. This course is designed to assist students in developing skills necessary to design, conduct, report and evaluate economic research projects.

Students will develop a research project and produce a research report.

Seminar 2 hrs. a week. 1 semester.

4499.1(2) Honours Project in Economics

Prerequisite/co-requisite: admission to the honours program (thesis option) and completion of ECON 4498.1(.2), COMM 2293.1 (.2) or permission of the Chairperson.

This course requires the completion of a major economic research project or thesis under the direction of one or more faculty members.

Independent Study.

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5500.1(2) Economics of the Enterprise

An examination of the economic behaviour of the consumer and the firm, including market demand and structure and the pricing and employment of factor inputs.

5501.1(2) Economics of Enterprise Environment

The course studies the determinants of and changes in the level of national income, monetary and fiscal theory, and international trade and finance theory and policy.

Note: The prerequisite for all ECON 6000-level courses is admission to the MBA Program or permission of the instructor.

6600.1(2) Issues in Industrial Economics

This course deals with such topics as competition policy, technological change in industry, behaviour under uncertainty, and the economics of regulation. It draws on theories of industry structure, conduct and performance, and emphasizes applications in the Canadian context.

6601.1 (.2) Economics and Policy in Global Context

This course deals with concepts and policy issues which will enable students to better understand national and international economic events, and to follow business and financial market analysis. Topics include the determinants of economic aggregates; economic fluctuations in the global context; monetary and fiscal policy; international finance; international economic organizations; trade agreements and issues.

6609.1(2) Business Forecasting

Business decision making relies heavily on information, and forecasting is an important tool in the provision and analysis of information. Recent advances in forecasting methodology and computer technology have opened new and challenging avenues for modeling and forecasting in the business area. This course aims to provide students with a working knowledge of forecasting models and methods (with particular emphasis on newer developments) that they may usefully be applied in a real-world setting.

6611.1(2) Sustainable Resource Management

This course examines the structure and dynamics of natural resource industries and their biological, economic, social, administrative and technological components. The course will cover such topics as: the role of natural resources in society; objectives of integrated natural resource development; the nature of sustainable development and environment-economy interactions in the resource sector; options for management of resources and resource industries; economics of sustainable resource use; methods for analyzing resource use choices; case studies. This will be an interdisciplinary course, drawing on elements of economics, management and management science. It will give the student a grounding in natural resource management, with emphasis on the theoretical and practical application of 'sustainable development' to the resource sector.

Classes and Seminars 3 hrs. a week. 1 semester.

6620.1(2) Issues in Public Finance and Fiscal Policy

This course deals with selected aspects of public policy. Issues related to public goods, externalities, fiscal federalism, tax incidence theory, direct taxation, indirect taxes, public debt and stabilization policy may be covered.

6622.1(2) Managerial Economics and Public Policy Issues

This course deals with business and public policy issues. Topics may include the market mechanism, market structures, regulation of industry and competition policy, aggregate economic activity, business cycles, stabilization policy, public debt, and other issues of current interest.

6663.1(2) Economics of Environment Management

This course focuses on the use of economic principles to understand the environmental impacts of business and household activity. The issues discussed include: causes of air and water pollution; endangered species; and the environmental impacts of human activity in fisheries, forestry and mining industries. Methods of environmental management, with special emphasis on the potential role of economic institutions and instruments, are discussed. Some discussion of current Canadian policy issues is also undertaken.

6665.1(2) International Economics

An overview of the central themes in international trade and finance, with presentation of current policy issues and debates. Topics include: gains from trade; regional integration; multilateral trade liberalization; scale economies and trade; foreign exchange rate determination; exchange rate regimes; foreign exchange intervention and stabilization policy.

6690.1(2) Seminar in Economics

This course deals with selected topics in economics. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructors.

Classes and independent study. 1 semester.

6692.1(2) Directed Study

This course supplements and provides an alternative to the regular economics courses in order to meet the special needs and interests of students. It also provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

Independent study.

6699.0 Research Project in Economics

Each student is required to complete a project involving the practical application of the research concepts and techniques used in economics, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

Independent study.

Education (EDUC)

Undergraduate Courses

Saint Mary's University offers undergraduate courses in the liberal study of education. These courses are available as general electives to Saint Mary's students enrolled in the Faculties of Arts, Science and Commerce, and as professional development courses to those holding Nova Scotia Bridging Teacher's Certificates. Before enrolling, those interested in using courses for the purpose of professional development should obtain the approval of the Registrar of Teacher Certification at The Nova Scotia Department of Education, PO Box 578, Halifax, Nova Scotia, B3J 2S9.

Teacher Certification Program

Saint Mary's University and the University of Maine at Presque Isle have established a program which allows students to qualify for Teacher Certification.

This is a valuable opportunity for students who began their university education after 1 August 2000 and are interested in P-12 teaching as a career. For certification as a teacher, Nova Scotia regulations require these students to complete three years of undergraduate arts and science courses plus two years of education courses, one semester of which is practice teaching.

This program provides several benefits: international experience; Certification as a teacher in both Maine and Nova Scotia; a reduced tuition rate (New England/Maritime) at the University of Maine at Presque Isle for Saint Mary's students who are Canadian, Saint Mary's international students are entitled to the out-of-state rate; conditional early admission to the University of Maine at Presque Isle at the end of the second year at Saint Mary's; guaranteed admission to the University of Maine at Presque Isle for all qualified applicants; waiver of application fees at the University of Maine at Presque Isle; completion of practice teaching in many locations, including Nova Scotia.

Students who wish to take advantage of this opportunity must complete an undergraduate degree at Saint Mary's of at least ninety (90) credit hours in arts and science courses, which must include the undergraduate courses required for teacher certification in both Maine and Nova Scotia for the level and subject the student wishes to teach, and fifteen (15) credit hours in Education courses. Students must apply to enter the Bachelor of Science in Education program at the University of Maine at Presque Isle.

At Presque Isle students will complete two semesters of Education courses (rather than the three which would otherwise be required). Students will then complete one semester of Practice Teaching, which may be done in any of several locations in Maine, Ontario, Prince Edward Island, New Brunswick and Nova Scotia (including Cape Breton).

Documents describing this program are available from the Undergraduate Programs Officer, McNally Main 215.

Certificate Programs for Teachers

Saint Mary's offers two Certificate Programs suitable for the professional development of teachers which have been approved for the upgrading of Nova Scotia Teacher's Certificates.

The Certificate in the Mathematical Sciences for Education is described in the Mathematics and Computing Science entry, Section 5 of this *Calendar*.

The Certificate in Linguistics is described in the Linguistics entry, Section 5 of this *Calendar*.

Master of Education (TESL)

A Master of Education degree in the teaching of English as a second or foreign language is offered by Mount Saint Vincent University in cooperation with Saint Mary's. The courses in this program taught at Saint Mary's provide an introduction to the principles and practices of second or foreign language teaching and are suitable for inclusion in Integrated Programs for the professional development of teachers.

The following courses are provided for students interested in Teaching English as a Second or Foreign Language.

- (a) These courses may be taken at the graduate level by those qualified to enrol in Masters level Education courses.
- (b) These courses may also be taken as electives at the undergraduate level by students who have met the stated prerequisite.

The following courses are part of the Masters of Education (TESL) degree:

EDUC 4456.0 [5656.0] Curriculum and Instruction in Teaching English as a Second or Foreign Language
 EDUC 4458.1(.2) [EDUC 5658.1(.2)] Pedagogical Grammar for ESL Teachers: Theory and Practice
 EDUC 4459.1(.2) [EDUC 5659.1(.2)] Seminar and Practicum in Teaching English as a Second/Foreign Language
 EDUC 4461.1(.2) [EDUC 5661.1(.2)] Language, Culture, and Education.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, EDUC 2301.0 was formerly EDU 301.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY

REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s New Course #'s

EDU 301	EDUC 2301
EDU 305	EDUC 3305
EDU 306	EDUC 3306
EDU 311	EDUC 3311
EDU 425	EDUC 4425
EDU 439	EDUC 4439
EDU 639	EDUC 5639
EDU 456	EDUC 4456
EDU 656	EDUC 5656
EDU 458	EDUC 4458
EDU 658	EDUC 5658
EDU 459	EDUC 4459
EDU 659	EDUC 5659
EDU 461	EDUC 4461
EDU 661	EDUC 5661
EDU 473	EDUC 4473
EDU 673	EDUC 5673
EDU 474	EDUC 4474
EDU 674	EDUC 5674
EDU 507	EDUC 3507
EDU 508	EDUC 4508
EDU 509	EDUC 4509
EDU 523	EDUC 5523
EDU 590	EDUC 4590

2301.0 Philosophy of Education (PHIL 2359.0)

Prerequisite: at least thirty (30) credit hours of University courses.

This course is an enquiry into the nature and aims of education. Topics considered will include analyses of the concept of education, evaluation of contrasting views about what constitutes an ideal education, and implications of various theories of knowledge for methods of teaching and learning. Selections from historical and contemporary thinkers will be studied.

3305.1.(2) Perspectives on Schooling

Prerequisite: at least thirty (30) credit hours of University courses.

This course examines the role of the school in society and the role of the teacher in the school. Perceptions of school purveyed by the media and held by the public are considered and contrasted with the perspectives of teachers and students. The range of contemporary educational practice is surveyed. This course is recommended for those considering teaching as a career and for those who desire an informed perception of the day-to-day working of the school.

3306.1.(2) Schooling and Society

Prerequisite: at least thirty (30) credit hours of University courses.

This course continues the examination of the role of the teacher in the school and the school in society begun in EDUC 3305.1.(2). An historical and comparative perspective is used to explore teaching as a career and the school as an increasingly central feature of developed societies.

3311.1.(2) Principles of Educational Evaluation

Prerequisite: at least thirty (30) credit hours of University courses.

Many teachers find the role of evaluator difficult and in continual conflict with their favoured roles of intellectual guide and counsellor. Methods of evaluation appear to limit education goals and objectives and interfere with their attainment. This course will examine the positive and negative features of different types of evaluation, the uses of evaluation in education, and how each use supports or defeats the goals we have for educational attainment.

3507.0 Sociology of Education (SOCI 3306.0)

A study of major sociological approaches (both conceptual and methodological) to education in different societies, with special emphasis on Canadian society. The course will focus on topics such as relationship between family, education and society; education and inequality; the social organization of knowledge; education and social change; the politics of education.

4425.1.(2) Instructional Media

Prerequisite: at least thirty (30) credit hours of University courses.

In this course, students will study the use of audio-visual media in educational settings.

4439.1.(2) [5639.1.(2)] The Application of Learning Theory in Education

Selected theories of learning and classroom practices are analyzed with the purpose of determining how theories of learning are used, and how educational practices are informed and altered by them.

4456.0 (5656.0) Curriculum and Instruction in Teaching English as a Second or Foreign Language

Prerequisite: at least thirty (30) credit hours of University courses.

Intended for teachers of English as a second or foreign language (ESL/EFL), this course focuses on the curriculum and methods used in teaching English to non-native speakers both in Canada and abroad. Specific topics include the notion of method in foreign language teaching, the evaluation of popular teaching methods, teaching for communication, integrated language teaching, ESL/EFL in the content areas, and individual instruction.

4458.1(2) [5658.1(2)] Pedagogical Grammar for ESL Teachers: Theory and Practice

Prerequisite: LING 1200.0 or enrolment in graduate program.

This course, intended for teachers of English as a Second or Foreign Language, is designed to provide a review of the syntactic structure of English, as well as ideas for how grammar can be integrated into the communicative language classroom. Topics covered in the course include contrasting types of grammatical analysis; awareness of grammar functions; different approaches to the teaching of grammar; identification, analysis, and remediation of student errors; grammatical difficulties for ESL/EFL learners; selection and evaluation of commercial texts; and preparation of pedagogical materials for students in a variety of contexts and instructional settings.

4459.1(2) [5659.1(2)] Seminar and Practicum in Teaching English as a Second/Foreign Language

Prerequisite: EDUC 4456.0 (5656.0)

This course consists of a series of professional seminars designed to examine issues related to contemporary English as a Second/Foreign Language pedagogy. Topics include, but are not restricted to, needs analysis, lesson planning, classroom management, and classroom interaction. Students will use a variety of methods, techniques, and strategies to promote second language acquisition, while, at the same time, encouraging reflective practice. This course includes a twenty-five hour supervised practicum during the semester.

4461.1(2) [5661.1(2)] Language, Culture, and Education

Prerequisite: at least thirty (30) credit hours of University courses.

This course focuses on the personal aspects of intercultural communication – what happens when people from different cultures interact face-to-face. Topics include foundational issues of culture and communication including culture shock, adjustment, re-entry shock, verbal and non-verbal communication, gender, race and class, children's ethnic socialization, the status of families as cultural units, and multicultural and anti-racist education. The course emphasizes the development of strategies for successful intercultural education.

4473.1(2) [5673.1(2)] Innovations in Education I

Prerequisite: at least thirty (30) credit hours of University courses.

A critical examination of selected past innovations in education aimed at isolating aspects of them which might be incorporated in future education programs.

4474.1(2) [5674.1(2)] Innovations in Education II

Prerequisite: at least thirty (30) credit hours of University courses.

A critical examination of selected current innovations in education intended to develop in the teacher and school administrator an understanding of and an appreciation for significant promising practices which seem likely to affect the design of future education programs.

4508.0 Introduction to Comparative Education

Prerequisite: at least thirty (30) credit hours of University courses.

This course is designed to acquaint students with a number of educational systems around the globe, the principal aim being to see Canadian education in a comparative perspective.

4509.0 Analysis and Application of Educational Concepts

Prerequisite: at least thirty (30) credit hours of University courses.

Concepts which identify selected aspects of good teaching will be clarified and their application to classroom practice explored. Identification of these concepts will provide a theoretical base for in-depth study of their application in strengthening teaching.

4590.0 Directed Study in Education

Prerequisite: at least thirty (30) credit hours of University courses.

This course allows for directed study in an educational area.

5523.1(2) Methods in Mathematics for In-Service Teachers

Objectives, programs, methods in junior and senior high school mathematics.

5525.1(2) Curriculum and Instruction in Elementary School Mathematics: Applications of Mathematical Theory

Prerequisite: MATH 1202.1(2)

This course deals with the application of the student's understanding of mathematical theory to the improvement of curriculum and methods of instruction in elementary school mathematics.

5526.1 (.2) Curriculum and Instruction in Elementary School Science: Applications of Scientific Theories and Results

Prerequisites: One university level science course.

This course deals with the application of the student's understanding of scientific theories and results to the improvement of curriculum and methods of instruction in elementary school science.

Engineering (EGNE)

External Director, Professor	A. Seaman
Professors	P. Boyle, D. Swingler, V. Tarnawski, S. Van Kamamidi
Associate Professor	D. Van Dyer

Details of the program requirements for Engineering are delineated in Section 3 of this *Calendar*.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, EGNE 1203.1(.2) was formerly EGN 203.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
EGN 203	EGNE 1203	EGN 305	EGNE 2305
EGN 204	EGNE 1204	EGN 306	EGNE 2306
EGN 206	EGNE 1206	EGN 307	EGNE 2307
EGN 209	EGNE 1209	EGN 308	EGNE 2308
EGN 301	EGNE 2301	EGN 309	EGNE 2309
EGN 303	EGNE 2303	EGN 310	EGNE 2310
EGN 304	EGNE 2304	EGN 311	EGNE 2311

1203.1(.2) Engineering Mechanics (Statics)

Prerequisite: MATH 1210.1(.2)/1211.1(.2) (concurrently).

Fundamental concepts and principles of mechanics, statics of particles, equivalent force systems, equilibrium of rigid bodies, analysis of structures, friction, distributed forces, centroids, centre of gravity, moments of inertia.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

1204.1(.2) Computer Methods for Engineers

Prerequisite: Nova Scotia Pre-calculus Mathematics 12 Academic or MATH 0010.1(.2)/0011.1(.2) and Nova Scotia Grade 12 Physics Academic or PHYS 0011.0, or equivalents.

This course introduces students to computer tools and techniques for the solution of common engineering problems. Software methods include C language programming, MathCad, spreadsheets, PC operating systems and networks will be studied. Problems involving the solution of simultaneous equations, matrix algebra, numerical integration/ differentiation, and display and analyses of experimental data will be addressed.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

1206.1(.2) Engineering Design Graphics (Design I)

Graphics as a language of communication; 3D visualization; projection theory, orthographic, oblique and isometric sketching and drawing as a means of representing 3D objects on 2D paper; reading of engineering drawings; standards and conventional practices. An integral part of the course is a design project to provide students with conceptual design, team work and computer drafting experiences including reporting and presentation.

Classes 3 hrs. a week and lab 3 hrs. a week. 1 semester.

1209.1(.2) Engineering Economics

This course deals with the economics of engineering design. After introducing fundamental concepts and cash flow diagrams, interest factors are dealt with in some detail. A variety of discounted cash flow techniques are covered including rate of return calculations. Inflation, tax, replacement and risk are also amongst the topics considered.

Classes 3 hrs. a week and labs 1 hr. a week.

2301.1(.2) Dynamics

Prerequisite: MATH 1210.1(.2), MATH 1211.1(.2), EGNE 1203.1(.2), and EGNE 1204.1(.2).

Rectilinear and curvilinear kinematics using cartesian, normal-tangential, and polar cylindrical labels: projectile motion with zero and non-zero drag. Continuous and discrete forms of the second law: work-energy, conservation of energy, impulse-momentum. Newtonian analysis of bodies in translation, rotation about a fixed axis, and plane general motion. Planar mechanisms with pin joints, sliding connections, and gears.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2303.1(2) Fluid Mechanics

Prerequisite: MATH 1210.1(.2), MATH 1211.1(.2), EGNE 1203.1(.2), and EGNE 1204.1(.2).

Fluid properties, fluid statics and stability. Lagrangian and Eulerian methods of analysis. Bernoulli's equation and applications. Linear momentum equation and applications. Dimensional analysis and dynamic similitude. Viscous effects in pipe flow.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2304.1(2) Mechanics of Deformable Bodies

Prerequisite: MATH 1210.1(.2), MATH 1211.1(.2), and EGNE 1203.1(.2).

An introduction to the techniques and theories involved in the analysis of the strength, deformation and stability of structural members and assemblies under the action of forces. Specifically, the object is to develop understanding of the relationships between loads applied to non-rigid bodies and the resulting stresses and strains. Topics include: stress and strain, axially loaded members, torsionally loaded members, flexural loading, combined loadings, column loading and finally an introduction to the Theory of Elasticity.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2305.1(2) Introduction to Digital Logic Circuits

This course introduces students to fundamental principles of digital system design. Topics covered include Boolean algebra; basic logic gates; combinational logic circuits including programmable logic arrays (PLA's) and arithmetic circuits; sequential logic design involving flip-flops; counters; finite state machines.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2306.1(2) Engineering Thermodynamics

Prerequisite: PHYS 1210.1(.2) and 1211.1(.2); also MATH 1210.1(.2) and 1211.1(.2).

Energy and the first law, ideal gas, gas state equation, macroscopic properties of pure substances, properties and state, energy analysis of thermodynamic systems, entropy and the Second Law, thermodynamic relations, consequences and applications of the Second Law to thermodynamic systems.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2307.1(2) Engineering Design II

Prerequisite: EGNE 1206.1(.2) and 1204.1(.2).

The work of EGNE 1206.1(.2) is extended to include technical drawings and computer graphics, a design project with working drawings and a technical report, as well as the construction and testing of a physical model.

Classes 3 hrs. a week and lab 3 hrs. a week. 1 semester.

2308.1(2) Electric Circuits

Prerequisite: PHYS 1210.1(.2) and 1211.1(.2) (concurrently).

The objective of this course is to introduce the student to the fundamental laws of electric circuits and circuit parameters, the concept of time-constants, impedances and admittances and general network theorems. Topics include: Kirchhoff's Laws; Ohm's law and circuit parameters, resistive networks, loop and node equations; network theorems, super position, Thevenin-Norton; A.C. circuits, sinusoidal response, power, power factor, three-phase circuits; transients in simple circuits.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2309.1(2) Probability and Statistics for Engineers

Prerequisite: MATH 1210.1(.2) and 1211.1(.2).

The topics covered include probability laws and the interpretation of numerical data, probability distributions and probability densities, functions of random variables, joint distributions, characteristic functions, inferences concerning mean and variance, tests of hypotheses, an introduction to linear regression. The course emphasizes engineering applications and makes extensive use of statistical computer packages.

Classes 3 hrs. and labs 2 hrs. a week. 1 semester.

2310.1(2) Technical Communications

Prerequisite: none

This course is designed to prepare students for the range of communicative functions important to professional engineers. Students will complete assignments requiring proficiency with word processing, PowerPoint (or similar software), spreadsheets and databases, and will be taught how to produce business letters, proposals, reports and oral presentations in a professional manner.

Classes 3 hrs. a week. 1 semester.

2311.1(2) Circuit Analysis (Circuits II)

Prerequisite: EGNE 2308.1(.2).

This course builds on the introduction to electric circuits in EGNE 308.1(.2). Topics include sinusoidal steady-state response via phasor diagrams and impedance concepts; power and energy; mutual inductance and transformers; balanced and unbalanced three-phase circuits.

It is intended that labs be "virtual labs" using Electronics Workbench/Spice packages on P.C. network.

Classes 3 hours and lab 3 hours a week. 1 semester.

English (ENGL)

Chairperson,	D. Kennedy
Associate Professor	B. Bartlett, W. Katz, M.
Professors	Larsen, R. MacDonald, R. Perkin, A. Seaman, G. Thomas, T. Whalen
Associate Professors	E. Asp, J. Baker, M. Harry, T. Heffernan, J. Hill, R. Hulan, G. Stanivukovic
Assistant Professors	T. Chorney, D. Heckerl, G. Hlongwane, S. Kennedy, A. MacLeod, S. Malton
Professors Emeriti	C. Byrne, K. Tudor

Introductory English

Students who have already passed ENGL 1205.1(.2) have fulfilled the requirement for three (3) credit hours in English as required by the 1 September 2003 requirements for a Bachelor of Arts degree.

Saint Mary's will not award an actual credit(s) for the designation "writing credit/course" on transfer course(s).

A passing grade in ENGL 1205.1(.2) is normally required for entrance to 2000-level English courses. Students should normally have completed nine (9) credit hours in English at the 2000 or 3000 level before taking 4000-level ENGL courses. For additional prerequisites, see individual course descriptions.

All courses meet three hours per week.

The Major Program

Students wishing to major in English must complete forty-two (42) credit hours in English including three (3) credit hours – ENGL 1205.1(.2), twenty-one (21) credit hours at the 2000 or 3000 level and eighteen (18) credit hours at the 4000 level. The 2000-level courses should include at least twelve (12) credit hours from the following list of core courses:

- (i) ENGL 2307.0 Literary Traditions in English
- (ii) ENGL 2308.1(.2) Development of English Prose Style, or 2311.1(.2) Modern English Language;
- (iii) ENGL 2323.1(.2) Practical Criticism, or 2324.1(.2) Introduction to Theory;
- (iv) ENGL 2341.1(.2) Introduction to Drama I, or 2342.1(.2) Introduction to Drama II;
- (v) ENGL 2391.1(.2) Study of Short Fiction, or 2392.1(.2) Study of the Novel;
- (vi) ENGL 2393.1(.2) Study of Poetry.

Students must also take nine (9) credit hours more at the 2000 or 3000 level.

Students will complete a further eighteen (18) credit hours at the 4000 level. A student must complete the sequence with a minimum quality point average of 2.0.

The Minor Program in English

A minor consists of at least twenty-four (24) credit hours in English with a maximum of three (3) credit hours at the 1000 level and a minimum quality point average of 2.0. Students may also minor in creative writing or linguistics.

The Minor Program in Creative Writing

Students who declare a minor in creative writing must take at least twelve (12) credit hours in creative writing in at least two of the four genres offered (fiction, poetry, drama and non-fiction). Students are also required to take twelve (12) credit hours more in English courses beyond ENGL 1205.1(.2).

Students who wish to major in English and minor in creative writing must take forty-eight (48) credit hours in English courses above ENGL 1205.1(.2) and fulfill the requirements of both programs.

Regulations for Concentrations

To obtain a concentration in English in partial fulfillment of the B.A. General degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours), a minimum of twenty-four (24) credit hours in English is required; also a minimum quality point average of 2.00. Further details are available from the Chairperson.

The Honors Program

All prospective honors students should refer to the section of this *Calendar* pertaining to honors degrees. Students should apply to the Registrar for admission to the honors program after having taken at least eighteen (18) credit hours in English or at the end of their second university year.

While students are encouraged to enroll formally in honors as early as possible, those who apply later will be considered if they have the requisite minimum 3.00 cumulative quality point average.

Honors students must complete the requirements listed below. A slight adjustment in the honors English requirements will be made for those in a double honors program.

The Honors in English consists of sixty (60) credit hours. Students who seek admission to the honors program must satisfy:

- a. the general requirements set out by the Faculty of Arts;
- b. three (3) credit hours – ENGL 1205.1(.2);
- c. Students take twelve (12) credit hours from the following list of core courses:

- (i) ENGL 2307.0, Literary Traditions in English;
- (ii) either ENGL 2308.1(.2), Development of English Prose Style, or ENGL 2311.1(.2), Modern English Language;
- (iii) either ENGL 2323.1(.2), Practical Criticism, or ENGL 2324.1(.2), Introduction to Theory;
- (iv) either ENGL 2341.1(.2), Introduction to Drama I, or ENGL 2342.1(.2), Introduction to Drama II;
- (v) either ENGL 2391.1 (.2), Study of Short Fiction, or ENGL 2392.1(.2), Study of the Novel;
- (vi) ENGL 2393.1(.2), Study of Poetry;

plus nine (9) credit hours more at the 2000 or 3000 level.

- d. a further thirty-six (36) credit hours at the 4000 level or above. In choosing their 4000-level courses, students must satisfy the following area requirements with six (6.0) credit hours from each:

- (i) Medieval and Renaissance: ENGL 4404.0, ENGL 4419.1(.2), 4421.1(.2), 4439.1(.2);
- (ii) Shakespeare: ENGL 4444.1(.2), ENGL 4445.1(.2), ENGL 4446.1(.2), ENGL 4447.1(.2);
- (iii) 18th Century and Romantics: ENGL 4408.1(.2), ENGL 4412.0, ENGL 4414.0, ENGL 4416.0;
- (iv) 19th Century: ENGL 4420.0, ENGL 4481.1(.2), 4482.1(.2), 4483.1(.2), 4484.1(.2), 4485.1(.2);
- (v) 20th Century: ENGL 4428.0, ENGL 4429. 1(.2), ENGL 4440.0, ENGL 4450.1(.2)/ 4451.1(.2), ENGL 4455.1(.2), ENGL 4456.1(.2), ENGL 4460.0, ENGL 4471.1(.2) and ENGL 4472.1(.2);
- (vi) ENGL 4550.0, Special Author; ENGL 4551.0, Special Subject; or ENGL 4552.0, Honors Seminar, or any 2 of ENGL 4553.1(.2)/4554.1(.2) Special Author, Special Subject, and ENGL 4555.1(.2)/4556.1(.2) Honors Seminar.

Prospective honors students must consult with the Chairperson about admission to the program. Students must maintain a minimum cumulative quality point average of 3.00 (B) in their English courses.

Note: ENGL 4401.1(.2) or ENGL 4454.0 course (Special Subject/Special Author) may be substituted for any of the following 4000-level courses with written permission of the Chairperson of the Department and filed with the Registrar.

Note: In the cases where courses have been renumbered or where a full-credit course has been split into two half-credit courses, a student who received a credit for the original course is not entitled to repeat the course in its new format for an additional credit.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, ENGL 1205.1(.2) was formerly EGL 205.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #	New Course #'s	Previous Course #'s	New Course #'s
EGL 205	ENGL 1205	EGL 452	ENGL 3452
EGL 307	ENGL 2307	EGL 453	ENGL 3453
EGL 308	ENGL 2308	New Course	ENGL 4000
EGL 311	ENGL 2311	EGL 401	ENGL 4401
EGL 313	ENGL 2313	EGL 404	ENGL 4404
EGL 315	ENGL 2315	EGL 412	ENGL 4412
EGL 316	ENGL 2316	EGL 414	ENGL 4414
EGL 317	ENGL 2317	EGL 416	ENGL 4416
EGL 321	ENGL 2321	EGL 417	ENGL 4417
EGL 323	ENGL 2323	EGL 418	ENGL 4481
EGL 324	ENGL 2324	New Course	ENGL 4482
EGL 325	ENGL 2325	EGL 419	ENGL 4419
EGL 326	ENGL 2326	EGL 420	ENGL 4420
EGL 327	ENGL 2327	New Course	ENGL 4484
EGL 328	ENGL 2328	EGL 421	ENGL 4421
EGL 334	ENGL 2334	EGL 427	ENGL 4427
EGL 341	ENGL 2341	EGL 428	ENGL 4428
EGL 342	ENGL 2342	EGL 429	ENGL 4429
EGL 344	ENGL 2344	EGL 430	ENGL 4430
EGL 345	ENGL 2345	EGL 433	ENGL 4433
EGL 356	ENGL 2356	EGL 434	ENGL 4434
EGL 364	ENGL 2364	EGL 439	ENGL 4439
EGL 380	ENGL 2380	EGL 440	ENGL 4440
EGL 391	ENGL 2391	EGL 441	ENGL 4441
EGL 392	ENGL 2392	EGL 443	ENGL 4443
EGL 393	ENGL 2393	EGL 444	ENGL 4444
EGL 300	ENGL 3300	EGL 445	ENGL 4445
EGL 303	ENGL 3303	EGL 446	ENGL 4446
EGL 305	ENGL 3305	EGL 447	ENGL 4447
EGL 306	ENGL 3306	EGL 450	ENGL 4450
EGL 312	ENGL 3312	EGL 451	ENGL 4451
EGL 318	ENGL 3318	EGL 455	ENGL 4455
EGL 322	ENGL 3322	EGL 456	ENGL 4456
EGL 331	ENGL 3331	EGL 457	ENGL 4457
EGL 343	ENGL 3343	EGL 458	ENGL 4458
EGL 347	ENGL 3347	EGL 459	ENGL 4459
EGL 348	ENGL 3348	EGL 460	ENGL 4460
EGL 351	ENGL 3351	EGL 461	ENGL 4461
EGL 357	ENGL 3357	EGL 462	ENGL 4462
EGL 361	ENGL 3361	EGL 463	ENGL 4463
EGL 367	ENGL 3367	EGL 470	ENGL 4470

EGL 375	ENGL 3375	EGL 471	ENGL 4471
EGL 376	ENGL 3376	EGL 472	ENGL 4472
EGL 381	ENGL 3381	EGL 475	ENGL 4475
EGL 382	ENGL 3382	EGL 477	ENGL 4477
EGL 383	ENGL 3383	EGL 490	ENGL 4490
EGL 395	ENGL 3395	EGL 550	ENGL 4550
EGL 402	ENGL 3402	EGL 551	ENGL 4551
EGL 408	ENGL 3408	EGL 552	ENGL 4552
EGL 409	ENGL 3409	EGL 553	ENGL 4553
EGL 435	ENGL 3435	EGL 554	ENGL 4554
EGL 437	ENGL 3437	EGL 555	ENGL 4555
EGL 438	ENGL 3438	EGL 556	ENGL 4556
		New Course	ENGL 4483

1205.1.(2) Introduction to Literature

This course introduces students to works of literature in English representing a variety of historical and cultural contexts. It develops the student's ability to interpret written texts and to write about them in an informed and organized manner.

Note: This course replaces the former courses EGL 203.1.(2) and EGL 204.1.(2). Students are advised that credit will not be awarded for ENGL 1205.1.(2) if the student already has a credit for either of the "Introduction to Literature" I or II [i.e., EGL 203.1.(2) or 204.1.(2)].

2307.0 Literary Traditions in English

Prerequisite: ENGL 1205.1.(2) or equivalent.

This course examines literature written in English from Old English to the present with the goals of developing awareness of literary history and of exploring relationships between literature and its social and cultural contexts.

2308.1.(2) Development of English Prose Style

[LING 2308.1.(2)]

The course offers a close study of the lexical, syntactic and rhetorical choices in very short selections of prose writing from 1500 to the present. The passages will be studied in chronological order, with a view to observing developments in prose style in each period.

2311.1.(2) Modern English Language

[LING 2311.1.(2)]

The course will examine the nature of modern English semantics (meaning), syntax ('wordings'), and morphology (word formation). Some attention is also paid to intonation (soundings). The course is presented using contemporary grammatical theories.

2313.0 Narrative in Fiction and Film

A study of a number of important works of fiction that have been successfully adapted to film. Students consider the specific properties that are unique to each medium and the implications (formal, thematic, social and political) involved in translating from page to screen.

2315.1.(2) Masterpieces of Western Literature (Pre-Renaissance)

An historical survey of the major works of Western civilization from classical Greece to the Renaissance.

2316.1.(2) Masterpieces of Western Literature (Post-Renaissance)

An historical survey of the major works of Western civilization from the Renaissance to the 20th century.

2317.0 Writing by Women

[WMST 2317.0]

A course designed to examine some of the theoretical and practical concerns presented by women's writing. Both the nature of women's tradition in literature and the scope and method of feminist literary criticism will be studied. The emphasis will be on literature of the 18th, 19th, and 20th centuries, but earlier writings will be considered as well.

2318.1.(2) The Writer and Nature

Ranging from 18th century meticulous observers of the natural world through the Romantic poets to modern writers who envision an apocalyptically threatened environment, this course seeks to trace the shifts in literary approaches to nature within different English-speaking traditions and to follow the changing perceptions of the place of the human being within the natural landscape.

2321.1.(2) Advanced Composition

2323.1.(2) Introduction to the Practice of Criticism

This course provides an introduction to the discipline of literary criticism through extensive exercises in the practical criticism of selected extracts of poetry and prose.

2324.1.(2) Introduction to the Theory of Criticism

This course provides an introduction to the major issues and theoretical approaches in the discipline of literary criticism. The main emphasis will be on reading selected critical texts from Plato to the present day.

2325.1.(2) The Media in Every day Life

This course focuses on the role of printed and electronic media in forming our imaginative conceptions of the world around us.

2326.1.(2) Language and Gender

[LING 2326.1.(2) and WMST 2326.1.(2)]

This course examines the role of language in forming popular perceptions about the position of women and men in society. The topics include a comparison between English and other languages in matters of grammar, vocabulary, and semantics; a comparison between modern English and earlier stages; and an enquiry into the origin of authoritarian notions of correctness. The historical role of women as users and teachers of language is also considered. Present-day attitudes, implementation of non-sexist language guidelines, and the struggle to establish non-discriminatory language practices are also included in the study.

2327.1.(2) The Bible and English Literature**[RELS 2376.1.(2)]**

A study of the influence of the Bible on English literature from Anglo-Saxon times to the present. Particular emphasis will be given to the King James Bible (1611). Some attention will be paid to the ancient context and literary forms of the Jewish and Christian scriptures and to recent theoretical approaches to the relationship of the Bible and literature.

2328.1.(2) The Catholic Tradition in Modern Literature in English [RELS 2375.1.(2)]

A study of the influence of Roman Catholicism on works of English literature from 1845 (the date of John Henry Newman's conversion to Roman Catholicism) to 2000. Some attention may also be paid to the Anglo-Catholic revival. By focusing on a range of literary genres, especially the novel and the spiritual autobiography, the course will investigate such topics as the influence of Catholic theology on literary form; the treatment of the conflict between individualism and authority; the representation of such controversial topics as papal infallibility, the Second Vatican Council, and the encyclical *Humanae Vitae*; the experience of Catholic women.

2334.0 The Literature of Modern Ireland**[IRST 2334.0]**

A study of the contradictions and fissures in modern Ireland as these are seen through the imagination of her writers. The writers studied will include W. B. Yeats, J. M. Synge, G. B. Shaw, Sean O'Casey, Maurice O'Sullivan, Liam O'Flaherty, James Joyce, Patrick Kavanagh, Padraic Colum, Sean O'Faolain, James Stephens, J. B. Keane and Brian Friel.

2341.1.(2) Introduction to Drama I

This course is a survey of representative plays from ancient Greece to 1700.

2342.1.(2) Introduction to Drama II

This course is a survey of representative plays from 1700 to the present.

2344.1.(2) Canadian Literature to 1920

Prerequisite: ENGL 1205.1.(2).

An introduction to the drama, fiction, prose and poetry written in early Canadian literary history emphasizing the colonial and post-Confederation periods.

2345.1.(2) Canadian Literature After 1920

Prerequisite: ENGL 1205.1.(2).

An introduction to the drama, fiction, prose and poetry written in Canada since 1920 studied in critical and historical context.

2356.1.(2) The Development of Science Fiction to the New Wave

Prerequisite: ENGL 1205.1.(2).

The course will explore visionary and speculative literature ranging from early nineteenth century speculative fictions up to and including the New Wave. Topics such as the following will be discussed: the influence of the classical writers M. Shelley, J. Verne, and H.G. Wells; the importance of the "pulp" magazines of the 1920s and 1930s and 1940s; Golden Age writers and writing; and the development of the New Wave movement.

2364.1.(2) The Modern Novella

A course designed to introduce the student to a wide range of short novels which illustrate both the rich diversity and the fundamental unity of concern which characterize the modern imagination and cultural consciousness.

2380.0 Literature of Atlantic Canada

An examination of the literature and literary background of Atlantic Canada. Emphasis in the first semester is on the 19th and early 20th centuries; in the second semester it is on contemporary writing.

2391.1.(2) The Study of Short Fiction

This course is designed to introduce students to short fiction as well as to the analytical concepts necessary for its critical appreciation and judgment.

2392.1.(2) The Study of the Novel

This course is designed to introduce students to the novel in English as well as to the analytical concepts necessary for its critical appreciation and judgment.

2393.1.(2) The Study of Poetry

Methods and problems in poetics and the reading and analysis of English poetry for the purpose of preparing students for advanced work.

3300.1.(2) – 3303.1(2); 3305.0 Selected Topics

The subject matter of particular courses will be announced from time to time. These courses are designed to treat authors and topics not dealt with in other 3000-level courses.

3306.0 Cross-listed as CLAS 3306.0 The Epic**3312.1.(2) Canadian English****[LING 3312.1.(2)]**

The course examines the background of Canadian English, the qualities which mark it as distinct from British and American English, and the regional varieties found within it, with emphasis on the speech of the Atlantic Provinces.

3322.0 Advanced Composition (Computer Assisted)**3321.1.(2) Advanced Composition**

3331.1.(2) History of Children's Literature

A survey of children's literature to the end of the nineteenth century. The literature will be read and understood in its historical context. The emphasis will be on the works generally considered classics of children's literature

3343.1.(2) Cultural Studies

Prerequisite: ENGL 1205.1(.2).

This is an interdisciplinary course that explores culture and contexts within which culture is produced, disseminated, and consumed. The course introduces students to some of the basic cultural studies theories and methodologies, like psychoanalysis, economics, sociology, but also film and media studies, gay and lesbian theories, feminist, ethnic, and popular-culture studies.

3347.1.(2) American Literature 1820-1865

Prerequisite: ENGL 1205.1(.2).

A survey of major works of American literature from 1820 to the end of the Civil War. Authors may include Dickinson, Douglass, Emerson, Hawthorne, Melville, Thoreau, and Whitman. This course, along with American Literature 1865-1914, provides students with a sound historical understanding of this most formative period in American literature.

3348.1.(2) American Literature 1865-1914

Prerequisite: ENGL 1205.1(.2).

A survey of major works of American literature from 1865 to the eve of World War I. Authors may include Cather, Chopin, Crane, DuBois, Dreiser, James, London, Twain and Wharton. This course, along with American Literature 1865-1914, provides students with a sound historical understanding of this most formative period in American literature.

3351.1.(2) American Fiction from 1950 to the Present

A study of American fiction since World War II. Authors to be studied are chosen partly because they interpret some important aspects of the American national experience during this period and partly because they raise basic questions about the aesthetics of fiction.

3357.1.(2) Recent Science Fiction

This course will look at the recent expansion of the genre through experiments with form and subject matter. Topics such as the following will be discussed: the influence of the New Wave movement and the Feminism; the development of Cyberpunk; interactive science-fiction, including "fandom" and the proliferation of "fanzines"; science fiction as a multi-media genre; role-playing games; millennialism; and the recent trend towards the assimilation of science fiction with fantasy and/or horror.

3361.1.(2) World Literature in English: Selected Focus**3367.1.(2) Canlit: the 60s and 70s**

Prerequisite: ENGL 1205.1(.2).

A study of the emergence of "Canlit" in the 1960s and 1970s with emphasis on the development of cultural institutions. In addition to the literature produced in the period, including representative poems, plays, short stories and novels, the course will examine the influence of thematic criticism, regionalism, and nationalism on the creation of Canadian canons.

3375.1.(2) Writing Fiction I

Additional prerequisite: submission of samples of writing prior to registration and permission of Creative Writing Coordinator.

A course in the many techniques, skills, goals and problems in writing fiction. The emphasis is on analyzing student stories in workshops, but lectures and writing exercises may also be included.

3376.1.(2) Writing Fiction II

Additional prerequisite: submission of samples of writing prior to registration and permission of Creative Writing Coordinator.

This course encourages students to experiment with literary techniques and to develop their own writing style. Students will participate in workshops, read widely in the genre of the short story and be encouraged to rethink and revise their own fiction.

3381.0 Writing Poetry

Additional prerequisite: submission of samples of writing prior to registration and permission of Creative Writing Coordinator.

This course provides students with an opportunity to write and workshop their own poetry. The great range of choices available to poets in terms of form, rhythm, voice and diction will be explored. The emphasis will be on student submissions, but the work of published poets will also be discussed.

3382.0 Writing Plays

Additional prerequisite: submission of samples of writing prior to registration and permission of Creative Writing Coordinator.

This course provides students with the opportunity to write and workshop their own plays. The literary aspects of drama, as well as its practical and production aspects, will be explored. Though the course focuses on student efforts, the works of classic and contemporary playwrights may also be discussed.

3383.1.(2) Writing Prose – Non-Fiction

Additional prerequisite: submission of samples of writing prior to registration and permission of Creative Writing Coordinator.

A creative writing course dealing with such forms of prose as travel literature, essays, reviews, memoirs, biographies, and journals. Students will experiment with various forms and critique each other's efforts in a workshop format. Published examples of non-fiction prose will be read and discussed.

3395.0 An Introduction to Shakespeare**3401.1.(2) Special Author, Special Subject**

This special half-credit course provides the opportunity to study a particular author or subject in depth and detail. It is designed to examine at an advanced level authors and topics not dealt with in other 3000-level courses or to allow for a different approach to the study of authors and/or topics already covered in other countries.

3402.0 History of the English Language [LING 3402.0]

A survey of the development of the English language from its earliest stages to the present. Representative texts are used from each period so that students can acquire first-hand knowledge of the successive changes in grammar (syntax, morphology, and phonology) and vocabulary.

3408.1.(2) Drama and Society – Restoration to 18th Century

This course gives particular attention to the comedy of manners and its principal exponents such as Etherege, Wycherley, Congreve and Sheridan. Also studied are sentimental comedy, heroic and domestic tragedy, and the ballad opera, as well as the way social and political development affected the theatre.

3409.1.(2) Drama and Society in the 19th Century

The study of drama and theatre in the Romantic era in relation to changing political and social conditions. The study includes melodrama, the influence of the actor-managers and the move towards realism. Also studied is the impact of European drama, particularly by Ibsen, on Shaw, Pinero and other British dramatists.

3434.1.(2) Autobiography

This course explores the many ways in which various narrative forms are used to represent and relate the self. Texts to be examined will range from classics of autobiographical writing such as De Quincey to modern and contemporary works.

3435.1.(2) 20th Century European Drama

A study of the principal European dramatists and theatre movements in the present century with emphasis on the ones that have most influenced drama written in English. Reference is made to works by such dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Brecht, Beckett and Ionesco.

3437.1.(2) Canadian Drama**3438.1.(2) American Drama**

This course traces the origins and principal developments of drama in the United States. Special reference is made to the work of leading dramatists, including O'Neill, Wilder, Miller, Williams, Albee, Wilson and Shepard.

3452.1.(2) Irish Drama to the End of the 19th Century [IRST 3452.1.(2)]

This course studies Irish drama from its beginnings to the end of the nineteenth century, including the works of Farquhar, Sheridan, Macklin, Kelly, and Boucicault.

3453.1.(2) Irish Drama in the 20th Century [IRST 3453.1.(2)]

This course studies Irish drama from the founding of the Irish National Theatre society in 1903 up to the present time, including the works of Yeats, Hyde, Lady Gregory, Synge, Shaw, O'Casey, and Beckett.

4401.1.(2) Special Author, Special Subject**4404.0 Chaucer and the 14th Century**

A course dealing primarily with the poetry of Chaucer which is studied in the original Middle English. Students are required to do outside reading on literary influences and on life in 14th century England.

4412.0 Restoration and 18th Century Literature

This course focuses on the various forms of English poetry and prose between 1660 and 1800. It includes poets such as Dryden, Finch, Pope, and Gray, and writers of prose such as Swift, Johnson, Burney and Boswell.

4414.0 The Novel: Defoe to Austen

This course surveys the origin and development of the English novel during the 18th century. It includes the study of such novelists as Defoe, Fielding, Richardson, Smollett, Sterne, Goldsmith and Austen.

4416.0 The Romantic Movement

This course studies the origins and development of the English Romantic movement. Major emphasis will be placed on the works of Blake, Wordsworth, Coleridge, Shelley, Keats and Byron.

4417.1.(2) Feminist Literary Theory**[WMST 4417.1.(2)]**

Prerequisite: ENGL 1205.1.(2).

This course will engage students in a study of feminist literary theory. Some of the most influential theorists in this area will be analyzed as well as the dominant cultural systems to which they have responded. Students will not be required to have any prior knowledge of the field.

4419.1(2) English Poetry and Prose of the 16th Century

Prerequisite: ENGL 1205.1(2) and twelve (12) credit hours in ENGL at the 2000-level or above.

The course focuses on English poetry and prose written in the 16th century, and on the cultural and social context within which this literature was produced. Some writers that may be studied include More, Wyatt, Surrey, Shakespeare, Marlowe, Lyly, Sidney, Spenser, Nashe, Whitney, Llayer, Stuart and Queen Elizabeth I.

4420.0 Victorian Poetry and Prose

This course is devoted to a critical study of the work of such representative poets as Elizabeth Barrett Browning, Alfred Lord Tennyson, Robert Browning, Matthew Arnold, and Christina Rossetti, and writers of prose such as Thomas Carlyle, John Henry Newman, John Stuart Mill, and Matthew Arnold. The writers will be studied in the context of the literary, social, and cultural history of Victorian England.

4421.1(2) English Poetry and Prose of the 17th Century

Prerequisite: ENGL 1205.1(2) and twelve (12) credit hours in ENGL at the 2000-level or above.

The course focuses on English poetry and prose written in the 17th century, and on the cultural and social context within which this literature was produced. Some of the writers that may be studied include Donne, Jonson, Marvell, Milton, Traherne, Herbert, Dryden, Florio, Bacon, Burton, Browne, Speght and Wroth.

4427.1(2) Language, Gender and Power

[LING 4427.1(2); WMST 4427.1(2)]

This course examines the role of language and its use in constructing and negotiating social positions of men and women and by men and women. It compares discourse strategies used by powerful/powerless speakers and gender-associated discourse strategies. It examines dialect and generic features used in constructing and maintaining social identities and differences.

4428.0 20th Century Poetry

A study of 20th century poetry in English. British, American and Canadian poetry of the Modernist period and the post-World War II period is given special emphasis.

4429.1(2) American Literature 1914-1950

Prerequisite: ENGL 1205.1(2) (or equivalent) and twelve (12) credit hours in ENGL at the 2000-level or above.

A study of major American modernist writers of fiction and poetry from the turn of the twentieth century until the period just after World War II. Writers studied may include Hemingway, Fitzgerald, Steinbeck, Eliot, Pound and Stevens.

4430.0 Scottish Literary Traditions

A selective examination of Scottish literary traditions from the late Middle Ages to the present. As required for particular writers, attention will also be paid to the Scots language and to cultural background.

4433.1(2) Biography

A course focusing on the special features and problems of biographical writing such as subjectivity, bias, historical perspective and the problems of evidence.

4439.1(2) Literature in English 1350-1500

Prerequisite: a minimum of six (6) credit hours in 2000-level ENGL.

In the late 14th century the viability of English as literary language was confirmed by the works of Geoffrey Chaucer and other writers. This course traces the development of late medieval literature in English up to the emergence of Modern English in the 16th century.

4440.0 Theory and Practice of Criticism

A general survey of the intellectual background and development of postmodernism as it emerges in literary and cultural criticism and theory. The main areas of investigation involve such dominant postmodernist problematics as literary and philosophical deconstruction, the critique of ideology, Lacanian psychoanalysis and the construction of subject, allegory and the sublime.

4441.1(2) The Irish Short Story

[IRST 4441.1(2)]

This course will examine the short story as a major form in the fiction (in English) of Ireland, tracing its development from the Irish folktale to the sophisticated modern stories of internationally read practitioners such as Joyce, O'Connor, O'Faolain and Lavin.

4443.1(2) Irish Poetry

[IRST 4443.1(2)]

Irish poets and poetry from ancient to modern times will be the subject matter of this course. Special emphasis will be placed on poets of the modern period from Yeats to Heaney, and the course will concentrate on the interaction of the patterns of Irish Gaelic sounds and images with those drawn from English language and culture.

4444.1(2) Shakespeare I

The subject of this course is Shakespeare's comedies and romances.

4445.1(2) Shakespeare II

The subject of this course is Shakespeare's history plays and problem plays.

4446.1(2) Shakespeare III

The subject of this course is Shakespeare's tragedies.

4447.1(2) Shakespeare's Contemporaries

This course studies selected plays by such writers as Kyd, Marlowe, Dekker, Jonson, Beaumont and Fletcher and Webster.

4450.1(2) British Drama 1900-1955

The focus of this course is the dominant role of G. B. Shaw in the theatre of the first three decades of the 20th Century. Other playwrights studied include Granville Barker, Galsworthy, Barrie, Coward, Rattigan, Eliot and Fry.

4451.1.(2) British Drama since 1956

The “overnight revolution” in British Theatre in 1956 produced successive waves of outstanding dramatists who will be studied in the course, including Osborne, Pinter, Arden, Bond, Stoppard, Ayckbourn and Shaffer. The work of three major companies which helped to promote them, the Royal Court Theatre, the Royal Shakespeare Company and the National Theatre Company, will also be featured.

4454.0 Special Subject/Special Author

This course provides the opportunity to study a particular author or subject in depth and detail. It is designed to examine, at an advanced level, authors and topics not dealt with in other 400-level courses or to allow for a different approach to the study of authors and/or topics already covered in other courses.

4455.1.(2) The Modern Novel

A close critical analysis of representative works of a number of prominent late 19th and 20th century novelists in the light of certain literary, cultural, socio-political and philosophic tendencies which have exercised a decisive influence in the formation of the modern imagination.

4456.1.(2) The Postmodern Novel

Prerequisite: ENGL 1205.1.(2) and twelve (12) credit hours in ENGL at the 3000-level or above.

This course focuses on some of the major novelists of the second half of the twentieth century in the context of the cultural and political climate that has given rise to this fiction and the term postmodernism.

4457.1.(2) Advanced Studies in American Literature

Prerequisite: ENGL 1205.1.(2) and twelve (12) credit hours in ENGL at the 2000-level or above.

This advanced course in American literature offers intensive treatment of authors, genres, and themes addressed at the intermediate level. Possible topics in the course may include: (1) intensive study of single authors in relation to historical trends in literary criticism (‘reception history’); (2) intensive exploration of particular currents in the development of a specific genres; (3) concept-based courses; or (4) broad-based ‘cultural studies’ approaches to American literature.

4458.1.(2) Scottish Literary Traditions

Prerequisite: ENGL 1205.1.(2) and twelve (12) credit hours in ENGL at the 2000-level or above.

A selective examination of Scottish literary traditions from the late Middle Ages to the 1960’s. As required for particular writers, attention will be paid to the Scots language and to cultural background.

4459.1.(2) Contemporary Scottish Literature

Prerequisite: ENGL 1205.1.(2) and twelve (12) credit hours in ENGL at the 2000-level or above.

A study of Scottish literature from the last quarter of the twentieth century to the present. As required for particular writers, attention will be paid to the Scots language and to cultural background. The study will proceed from the older generation of writers (MacDiarmid, Morgan, Iain Crichton Smith, S. MacLean, G. M. Brown, Spark) who are still influential, to the transitional group (Gray, McIvanney, Dunn, Kellman), and on to younger contemporary figures (Kuppner, Lochheed, Welsh, Galloway, Kennedy, Rankin and D. McLean).

4460.0 Postcolonial Literature: An Overview

This course is designed to introduce students to postcolonial literature. Works of fiction to be studied will be from the Caribbean, Africa, New Zealand, India, Australia, and elsewhere, examining them within their political, historical and cultural contexts.

Classes 2 hrs. and group presentations 1 hr. a week. 2 semesters.

4461.1.(2) Polemical Writing by Women

[WMST 4461.1.(2)]

Women writers were involved in public discourse and debate for at least two centuries before winning the right to formal political participation. The course will examine the literary texts (e.g., Harriet Beecher Stowe’s *Uncle Tom’s Cabin*; Virginia Woolf’s *Three Guineas*) generated by women about such issues as slavery, imperialism, women’s suffrage, feminism, militarism and ecology.

4462.1.(2) Native North American Literature

Prerequisite: ENGL 1205.1.(2), ENGL 2344 and/or ENGL 2345.1.(2) are strongly recommended.

A course on the literature arising from the awakening of Native American political consciousness in the late twentieth century. The course explores representative works of prose, poetry, drama and fiction in the context of theories generated by borderland studies and Native studies. The course will allow students to study representative works by Native North American writers in more detail than in other courses in Canadian and American literature.

4463.1.(2) Imagining the North in Canadian Literature

An interdisciplinary course that explores the representation of Canada as “true north” in literature and media. Beginning with Glenn Gould’s “The Idea of North” and working through representative texts, including selections of Inuit literature written in English, the course emphasizes the mutual influence of the various genres through which Canadians imagine the north. The course exposes students to the effects of the post-modern “blurring of genres” and to the possibilities and problems of interdisciplinary study.

4470.1(2) The Rise and Fall of the Printed Book

This course focuses on the history of the printed book and examines the phenomenon of mass literacy and its implications in the development of different types of literature.

4471.1(2) Contemporary Canadian Fiction

An advanced course in Canadian fiction produced in the 70s, 80s, and 90s that gives students an opportunity to consider selected novels and short stories in some depth. Texts are considered within the context of Canadian literary criticism, history, and theory.

4472.1(2) Contemporary Canadian Poetry

An advanced course that considers questions of genre and form in Canadian poetry after 1965. Selected collections of poetry are studied within the context of Canadian literary criticism, history, and theory. Specific topics covered include the long poem, the lyric and visual poetry.

4475.0 Writing Fiction – Advanced

Additional prerequisite: written permission of Creative Writing Coordinator.

A course designed for students with some experience in writing fiction. Many aspects of the writer's craft, from the germination of a story to the polishing of a final draft, will be explored in workshops. Students who have not completed either ENGL 3375.1(.2) or 3376.1(.2) will be asked to submit a sample portfolio of their work before registration.

4477.1(2) Writing Poetry (Advanced)

Prerequisite: ENGL 3381.0 or, prior to registration, submission of portfolio to creative writing coordinator.

An advanced creative-writing course, which provides students with opportunities to develop their craft beyond its beginning stages and to have their poems discussed in workshops. The course may include emphasis on poem sequences, long poems, and poets' poetics, including their prose commentaries on subjects ranging from sources of inspiration to arguments about technique.

4481.1(2) The British Novel 1800-1855

Prerequisite: ENGL 1205.1(.2).

A study of the British novel in the first half of the nineteenth century, focusing on writers such as Jane Austen, Emily Brontë, Charlotte Brontë, William Makepeace Thackeray and the early Charles Dickens. Attention will be paid to the style and narrative technique of the novels studied, to their place in the cultural history of the period, and to their relationship to their social and historical context.

4482.1(2) The British Novel 1855 – 1910

Prerequisite: ENGL 1205.1(.2).

A study of the British novel from the mid-Victorian period to the end of the Edwardian period, focusing on writers such as George Eliot, the later Charles Dickens, Thomas Hardy, Henry James, and Joseph Conrad. Attention will be paid to the style and narrative technique of the novels studied, to their place in the cultural history of the period, and to their relationship to their social historical context.

4483.1(2) Victorian Poetry and Prose I

Prerequisite: ENGL 1205.1(.2).

This course focuses on the poetry and prose of the early Victorian period, including poets such as Elizabeth Barrett Browning, Robert Browning, and Alfred, Lord Tennyson, and prose writers such as Thomas Carlyle and John Stuart Mill. Attention will be paid to the way that Victorian poetry develops out of the Romantic Movement, and to the relationship between literature and the political and social context, focusing on topics like reform and the industrial revolution.

4484.1(2) Victorian Poetry and Prose II

Prerequisite: ENGL 1205.1(.2).

This course focuses on the poetry and prose of the later Victorian period, including poets such as Matthew Arnold, Christina Rossetti, and Gerard Manley Hopkins, and prose writers such as John Henry Newman, Charles Darwin, Matthew Arnold, Walter Pater, and Oscar Wilde. Attention will be paid to the aesthetic movement, the definition of culture, and the crisis of religious faith.

4485.1(2) Victorian Literature – Advanced Study

Prerequisite: ENGL 1205.1(.2).

The subject of the course will vary from year to year. It allows the opportunity to explore an aspect of Victorian literature in more depth than is possible in other courses. The following are some examples of possible topics: a single major author or group of authors from the period (e.g., Charles Dickens or the Brontës); a literary movement or form (e.g., the aesthetic movement or the sensation novel); a social or cultural issue (e.g., the "woman question" or industrialism in literature); or the literature of a narrowly defined historical period (e.g., the novel in the 1840's or the literature of the fin de siècle).

4490.0 Discourse Analysis

(LING 4490.0)

Prerequisite: At least eighteen (18) credit hours in linguistics, language or literature at the 2000-level or above.

Linguistic, structural and semiotic approaches to discourse analysis are addressed. The course emphasizes the application of analytical techniques to a variety of text types.

178 Environmental Studies

4550.0 Special Author (WMST 4550.0)

Additional prerequisite: enrolment in the English honors program or special recommendation of the Department.

This course provides the opportunity to study a particular author in considerable depth and detail, and requires some measure of independence and initiative in the student.

Tutorials by arrangement with supervisor. 2 semesters.

4551.0 Special Subject

Additional prerequisite: enrolment in the English honors program or special recommendation of the Department.

This course provides the opportunity to study a particular subject or period in considerable depth and detail, and will require some measure of independence and initiative in the student.

Tutorials by arrangement with supervisor. 2 semesters.

4552.0; 4555.1(.2)/4556.1(.2) Honors Seminar

Topics chosen will be of a general nature in order to permit the representation of a diversity of historical periods, genres, and the various literary traditions of the English-speaking world. Students will be required to present papers on aspects of the chosen topic and members of the English Department will conduct seminars in their areas of expertise.

4553.1(.2) – 4554.1(.2) Special Author, Special Subject

These courses provide the opportunity to study a particular author, subject, or period in considerable depth and detail and will require some measure of independence and initiative in the student.

Environmental Studies (ENVS)

Executive

Co-ordinator, M. Lamoureux Chemistry

J. Lundholm Biology/Environmental Studies
C. Suteanu Geography/Environmental Studies
T. Charles Finance, Information Systems and
 Management Science/ Environmental
 Studies

C. Cone Biology
L. Gannett Philosophy
H. Jenkins Chemistry
P. Jutras Geology
R. McCalla Geography
R. Richardson Environmental Studies
Adjunct Professors
P. Scales Environmental Studies
D. Walmsley Environmental Studies
H.P. White Environmental Studies

General Information

This program of study leads to a Bachelor of Science in Environmental Studies. It is a rigorous multidisciplinary program combining basic sciences, management, social sciences and humanities. It provides students with the necessary academic preparation to understand environmental and resource-oriented issues and to prepare them to contribute to an environmentally sound future. Students have the options to declare a major, double major, dual degree, honours, double honours and/or co-op. Graduates of the honours program may be qualified for admission to graduate programs in Environmental Studies or related subject

Program of Study

Major

1. Subject to the regulations set forth in this Calendar, students must complete the equivalent of one hundred and twenty (120) credit hours and attain a grade of at least C (2.00 quality points) in all Environmental Studies courses (Group A3) and also in all courses selected from Group C below.

2. The one hundred and twenty (120) credit hours of the four-year (five years if co-op option) program of study consist of:

- a. sixty-three (63) credit hours required credits (Group A);
- b. eighteen (18) credit hours selected from a list of recommended arts, social science and commerce courses (Group B);
- c. thirty (30) credit hours selected from a list of recommended science courses (Group C).

At least twelve (12) credit hours of the Group C must be at the 4000 level or above.

d. The remaining nine (9) credit hours may be selected from any discipline.

3. The choice of courses will be made in consultation with the Program Co-ordinator (or designate).

4. Double Major or Dual Degree

With the approval of the department involved, students may pursue a double major program in Environmental Studies and any one of the following science subjects: Biology, Chemistry, Geography, Geology or Geology/Geography. Alternatively, students can, with the approval of the department involved, pursue a dual degree in Environmental Studies and another subject in the Faculties of Arts or Commerce. Students should consult the Faculty of Science regulations as outlined in Section 3 of this *Academic Calendar*.

5. Honours or Double Honours

For the Bachelor of Science (Honours) degree in Environmental Studies, students must satisfy the requirements for a major and have a cumulative quality point average of at least 3.00. It is possible for double majors to pursue a double Honours. Students should consult the Science Faculty regulations outlined in Section 3 of this *Academic Calendar*.

Students must prepare a proposal for the Honours research project (ENVS 4599.0) satisfactory to their supervisor. The proposal will be subject to review by the Executive prior to approval by the Coordinator.

6. Co-op Option

Students may enrol in the Co-operative Education Program provided the minimum requirements specified in the Co-operative Education Section of this *Academic Calendar* are met.

7. The courses of Groups A1 and A2 should be among the first credits taken by the students.

8. Group A1 (core basic courses)

BIOL 1201.1(.2) Molecular and Cell Biology
and
BIOL 1202.1(.2) Organismal and Ecological Biology
CHEM 1210.1(.2) General Chemistry I
and one of
CHEM 1211.1(.2) General Chemistry II for Physical Sciences
or
CHEM 1212.1(.2) General Chemistry II for Life Sciences
or
CHEM 1213.1(.2) General Chemistry II for Engineering
ECON 1201.1(.2) Principles of Economics: Micro
ECON 3363.1(.2) Environmental Economics
ENGL 1205.1(.2) Introduction to Literature
GEOG 1203.1(.2) Physical Geography: Global Patterns
GEOG 2213.1(.2) Physical Geography: Local and Regional Patterns
GEOL 1214.1(.2) Introductory Geology: Earth Materials
GEOL 1215.1(.2) Introductory Geology: Earth Processes

Three (3) credit hours in Humanities: Classics, English other than ENGL 1205, History, Philosophy, Religious Studies, and Modern Languages (courses on literature and/or culture).

Group A2

Three (3) credit hours from the following:
GEOG 3326.1(.2) Statistical Methods for Geographers
BIOL 2308.1(.2) Biostatistics

Six (6) credit hours in the following:
CSCI 1226.1(.2) Introduction to Computing Science and Programming
CSCI 1227.1(.2) Intermediate Programming and Problem Solving

or
MATH 1210.1(.2) Introductory Calculus I
MATH 1216.1(.2) Introduction to Mathematical Statistics
(See regulation in MATH section concerning MATH 1207 and MATH 2315.)

or
MATH 1210.1(.2) Introductory Calculus I
MATH 1211.1(.2) Introductory Calculus II

Three (3) credit hours of the following:
CISY 1225.1(.2) Introduction to Computer Applications

Group A3 (Environmental Courses)

Nine (9) credit hours from the following:
ENVS 2300.1(.2) Environmental Science
ENVS 4499.0 Seminar in Environmental Science

Six (6) credit hours from the following:
ENVS 3410.1(.2) Environmental Impact Assessment
ENVS 3420.1(.2) Environmental Monitoring and Auditing
ENVS 4440.1(.2) Environmental Policy and Compliance
ENVS 4450.1(.2) Natural Resource Management
ENVS 4460.1(.2) Methods of Environmental and Natural Resource Analysis

9. Group B: Students must take at least eighteen (18) credit hours from the following list. The courses have been divided into environmental core courses, and background/techniques courses, for the convenience of students.

Environmentally related courses:
ANTH 4306.1(.2) Foraging Adaptation
ECON 3361.1(.2) Fisheries Economics
ENGL 3318.1(.2) The Writer and Nature
GEOG 1204.1(.2) Demographics and Culture
GEOG 2214.1(.2) Environment and Livelihood
GEOG 2304.1(.2) Environmental Management
GEOG 3315.1(.2) Ocean Use and Management
GEOG 3329.1(.2) Cultural Ecology
GEOG 3454.1(.2) Bay of Fundy: Environment and Issues
IDST 4470.1(.2) Environment and Development
MGMT 3388.1(.2) Business and Society
PHIL 2305.1(.2) Environmental Ethics
POLI 2304.0 Canadian Politics in the 21st Century
POLI 2305.0 International Relations
POLI 2307.0 Provincial Government and Politics
POLI 3321.1(.2) International Organization
POLI 3322.1(.2) Global Political Economy
POLI 4493.1(.2) Global Social Movements
PSYC 4414.1(.2) Environmental Cognition
PSYC 4418.1(.2) Environmental Psychology

RELS 2347.1(.2)	Ecology and Religion
RELS 3348.1(.2)	Religion and Ecological Issues in the Developing World
SOCI 3391.0	Rural Sociology
SOCI 4419.0	Sociology of the Environment

Background courses:

COMM 2293.1(.2)	Communication
COMM 3394.1(.2)	Oral Communication and Presentation Techniques
ECON 1202.1(.2)	Principles of Economics: Macro
ECON 3364.1(.2)	Cost Benefit Analysis
MGMT 3392.1(.2)	Occupational Health & Safety
PHIL 2302.0	Ethics
PHIL 3448.1(.2)	Philosophy of Science
PSYC 1250.1(.2)	Social Behaviour
PSYC 3309.1(.2)	Human Factors
PSYC 4497.1(.2)	Community Psychology
RELS 3349.1(.2)	Science & Religion
SOCI 3387.1(.2)	Women & Development

Any language courses, up to six (6) credit hours.

10.Group C: Students must take at least thirty (30) credit hours from the following list. Students in the honours program must take at least twenty-four (24) credit hours from the following list plus ENVS 4599.0: Honours Research Project.

BIOL 2303.1 (.2)	Plant Biology
BIOL 2324.1(.2)	Ecology
BIOL 2326.1(.2)	Diversity of Non-vertebrate Animals
BIOL 2398.1	Introduction to Microbiology
BIOL 2399.1(.2)	Biology of Lower Plants
BIOL 2427.1(.2)	Introductory Entomology
BIOL 3414.2	Environmental Microbiology
BIOL 3421.1 (.2)	Biology of Domesticated Plants
BIOL 4404.1(.2)	Behavioural Ecology
BIOL 4410.1 (.2)	Plant Diversity and Ecology
BIOL 4422.1(.2)	Applied Ecology
BIOL 4428.1(.2)	Applied Entomology
BIOL 4429.1(.2)	Quaternary Palynology
BIOL 4430.1(.2)	Ornithology
BIOL 4431.1(.2)	Herpetology
BIOL 4433.1(.2)	Ecotoxicology
BIOL 4448.1(.2)	Biology Field Course
CHEM 2332.1(.2)	Introductory Analytical Chemistry: Wet Methods
CHEM 2333.1(.2)	Introductory Analytical Chemistry: Instrumental Methods
CHEM 2344.1(.2)	Organic Chemistry I
CHEM 2346.1(.2)	Organic Chemistry IIB (or IIA if double major in Chemistry)
CHEM 2373.1(.2)	Introduction to Environmental Chemistry I
CHEM 2374.1(.2)	Introduction to Environmental Chemistry II
CHEM 3451.1(.2)	Introductory Biochemistry
CHEM 4452.1(.2)	Biochemistry: Metabolism
ENVS 3310.1(.2)	Field Course in Environmental Studies
ENVS 3410.1(.2)	Environmental Impact Assessment
ENVS 3420.1(.2)	Environmental Monitoring and Auditing

ENVS 4430.1(.2)	Directed Research
ENVS 4440.1(.2)	Environmental Policy
ENVS 4450.1(.2)	Natural Resource Management
ENVS 4460.1(.2)	Methods of Environmental and Natural Resource Analysis
GEOG 2305.1(.2)	The Oceans: A Physical Geography
GEOG 2316.1(.2)	Map and Air Photo Interpretation
GEOG 2333.1(.2)	Biogeography
GEOG 2336.1 (.2)	Principles of Cartography
GEOG 3313.1(.2)	Geomorphology [GEOL 3373.1(.2)]
GEOG 3343.1(.2)	Weather & Climate
GEOG 3356.1(.2)	Remote Sensing of the Environment
GEOG 3366.1(.2)	Field Techniques and Research Methods
GEOG 3386.1(.2)	Concepts of Geographical Information Systems
GEOG 4413.1(.2)	Coastal Geomorphology
GEOG 4414.1(.2)	Coastal Management
GEOG 4423.1(.2)	Glacial Geomorphology [GEOL 4475.1(.2)]
GEOG 4433.1(.2)	Fluvial Geomorphology
GEOG 4443.1(.2)	Natural Hazards
GEOG 4496.1(.2)	Applications in GIS
GEOL 1206.1 (.2)	Global Change
GEOL 2325.1(.2)	Sedimentology
GEOL 2350.1(.2)	Environmental Geoscience Issues
GEOL 3340.1(.2)	Surface and Groundwater Hydrology
GEOL 3453.1(.2)	Principles of Geochemistry
GEOL 3454.1(.2)	Applied Geochemistry
PHYS 1210.1 (.2)	University Physics I
PHYS 1211.1 (.2)	University Physics II
PHYS 1235.1(.2)	Physics for Life Sciences I
PHYS 1236.1(.2)	Physics for Life Sciences II

Notes: (a) The courses of Group A3 should be taken once the courses of Groups A1 and A2 are completed.

(b) The optional courses of Group A3 can also be taken for credit in Group C but credit cannot be given twice for the same course in Groups A and C.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, ENVS 1203.0 was formerly ENV 203.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO

RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
ENV 203	ENVS 1203	ENV 440	ENVS 4440
ENV 300	ENVS 2300	ENV 450	ENVS 4450
ENV 310	ENVS 3310	ENV 460	ENVS 4460
ENV 410	ENVS 3410	ENV 499	ENVS 4499
ENV 420	ENVS 3420	ENV 530	ENVS 4530
ENV 430	ENVS 4430	ENV 599	ENVS 4599

Environmental Studies Courses (ENVS)

1203.0 Biology and the Human Environment (for non-science students) [BIOL 1203.0]

The importance of biology in today's world is discussed with particular emphasis on human ecology and the impact of human activity on other living things. This course will not include laboratory work, but rather two lecture hours per week, and discussion sessions averaging one hour per week where demonstrations will sometimes be presented.

Note: This is a natural science course intended for Arts students and does not fulfill the "other science" category for Science students.

2300.1(.2) Environmental Science

Prerequisite: BIOL 1202.1(.2); CHEM 1210.1(.2); and GEOL 3300.1(.2) or GEOG 1203.1(.2) and officially declared major/honours in Environmental Studies.

This course describes the application of physical, life and social sciences to an understanding of the environment. The course will include a survey of environmental problems, solutions and strategies for sustainable development.

Classes 3 hrs. and lab 3 hrs. 1 semester.

3310.1(.2) Field Course in Environmental Studies

Prerequisite: ENVS 2300.1(.2).

An examination of natural, urban and industrial ecosystems based on integrative study from the biological, geological, geographical, management, social and economic perspectives. Relationships among the physical environment, biota, and human population will be illustrated and discussed. Sampling design and techniques, treatment of data, and interdisciplinary approaches to resource management will be incorporated in field work, labs, lecture-discussion, and projects.

Presented at Acadia University and in the Halifax Metropolitan Area this course is being offered in cooperation with the B.Sc. Environmental Science Program at Acadia University, Wolfville, Nova Scotia.

Classes 72 hrs., including lab and field work. Normally this course is offered in the spring.

3410.1(.2) [6610.1(.2)] Environmental Impact Assessment

Prerequisite: ENVS 2300.1(.2).

This course describes the legislative background and techniques for the prediction of impacts on biophysical and socio-economic environments. This course will cover screening, scoping, baseline studies, impact prediction, mitigation, monitoring and auditing.

Classes 3 hrs. and lab 3 hrs. 1 semester.

3420.1(.2) [6620.1(.2)] Environmental Monitoring

Prerequisite: ENVS 2300.1(.2) and one of MATH 1207.1(.2) or GEOG 3326.1(.2) or MGSC 2207.1(.2) or BIOL 2308.1(.2).

This course describes the principles and applications of environmental auditing and monitoring. Techniques for environmental audit of facilities, organizations and projects will be covered, together with the design of monitoring programs and techniques for atmospheric, biological, hydrological, and socio-economic monitoring.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4430.1(.2) [6630.1(.2)] Directed Research

Prerequisite: ENVS 2300.1(.2) or permission of Environmental Studies Co-ordinator.

Students will pursue a short term research project in such areas as: oceanographic sampling and analysis, policy development or environmental impact assessment. Students must identify an appropriate supervisor; provide a project proposal; and at the end of the project, submit a written report.

Lab 6 hrs. a week. 1 semester.

4440.1(.2) Environmental Policy and Compliance

Prerequisite: ENVS 2300.1(.2).

This course focuses on environmental policy in Canada and the world and how organizations comply with environmental regulations through standards and environmental management systems. The aspects of legislation and environmental regulations are also examined.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4450.1(.2) Natural Resource Management

[GEOG 4424.1(.2)]

Prerequisite: ENVS 2300.1(.2) or GEOG 2304.1(.2), and one of MATH 1207.1(.2) or GEOG 3326.1(.2) or MGSC 2207.1(.2) or BIOL 2308.1(.2) or permission of instructor.

This interdisciplinary course examines the management of natural resource industries such as fisheries, forestry, mining and energy, focusing on interactions between biophysical, ecological, socioeconomic, and technological components. The course will cover such topics as sustainable development and environment-economy interactions in the resource sector; approaches to integrated natural resource development; theoretical and practical aspects of managing resources and resource industries; economics of sustainable resource use; methods for analysing the impacts of resource use.

Classes 3 hrs. and lab 3hrs. a week. 1 semester.

4460.1(.2) Methods of Environmental and Natural Resource Analysis

[GEOG 4444.1(.2)]

Prerequisites: ENVS 2300.1(.2) or GEOG 2304.1(.2), and one of MATH 1207 or GEOG 3326 or MGSC 2207 or BIOL 2308, and one of MATH 1210 or MGSC 1226; or permission of instructor.

This interdisciplinary course provides a “tool-kit” of methods for planning and evaluation in natural resource and environmental management. Emphasis is placed on methods to assess dynamics of change in biophysical, ecological, socioeconomic, and technological aspects of resource and environmental systems, and for analysing the impacts of management interventions. Topics to be covered include computer-based techniques to acquire and manage information; bio-economic and simulation models; statistical and forecasting methods; economic valuation and ecological economics; sustainability indicators in resource and environmental systems; analysis of real-world case studies.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4499.0 Seminar in Environmental Science

Prerequisite: ENVS 2300.1(.2).

The course deals with selected topics in environmental science. Specific topics vary depending on current issues, new developments, availability of speakers and the interests of students and instructor.

Seminar 3 hrs. a week. 2 semesters.

4530.1(.2) Directed Studies in Environmental Science

Prerequisite: restricted to students in the honours program or permission of the Coordinator of Environmental Studies.

The course provides an opportunity for ENVS honours students to study a particular subject in detail. It requires independence and initiative from the student. It involves discussion of research papers and lab work. This course is intended particularly to meet the special needs and interests of honours students. Major students may be admitted with permission of the Environmental Studies Co-ordinator.

Classes and labs 6 hrs. a week. 1 semester.

4599.0 Honours Research Project

Prerequisite: honours standing in Environmental Studies.

Honours students will work with a research advisor who will guide the students in the formulation of research proposals, the methodology to be followed during the course of the research, and in the analysis and write-up of the research findings. The thesis will also be presented orally.

Lab 6 hrs. (minimum) per week. 2 semesters.

Executive Master of Business Administration (EMBA)

Executive Director	H. Silverstein
Adjunct Professors	A. Faseruk, L. Holmval, T. O'Neill, S. Sharma, M. Tugwell
Program Manager	B. Kirby

A complete description of this graduate program is found in Section 3 of this *Calendar*.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, EMBA 5511.1(2) was formerly EMBA 511.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
EMBA 511	EMBA 5511	EMBA 634	EMBA 6634
EMBA 512	EMBA 5512	EMBA 641	EMBA 6641
EMBA 513	EMBA 5513	EMBA 642	EMBA 6642
EMBA 514	EMBA 5514	EMBA 643	EMBA 6643
EMBA 521	EMBA 5521	EMBA 644	EMBA 6644
EMBA 522	EMBA 5522	EMBA 645	EMBA 6645
EMBA 523	EMBA 5523	EMBA 646	EMBA 6646
EMBA 524	EMBA 5524	EMBA 647	EMBA 6647
EMBA 631	EMBA 6631	EMBA 690	EMBA 6690
EMBA 632	EMBA 6632	EMBA 691	EMBA 6691
EMBA 633	EMBA 6633		

The following courses are available only to students registered in the Executive Master of Business Administration Program.

Year 1: Fall Semester

EMB 5511.1; 5512.1;5 EMBA 5514.1; and 5522.1.

Winter Semester

EMB 5513.2; 5521.2; 5523.2; and 5524.2.

5511.1(2) Managerial and Financial Accounting

This course is designed to improve students' decision-making abilities as managers using accounting information within organizations, and as managers interpreting and using externally published financial statements from other organizations. The use of accounting systems for planning of activities and control of operations with emphasis on the human behavioral aspects will be studied. The course will also develop and further the student's knowledge of accounting techniques and principles and their understanding of accounting data.

5512.1(2) Organizational Behavior and Theory

This course is concerned with the behavior and attitudes of individuals and groups in organizations and with how organizations are structured to achieve their goals. The

course relies heavily on the contributions of psychology, sociology and anthropology, and strong emphasis is placed in those management decisions that contribute to organizational effectiveness. Topics to be covered typically include leadership, motivation, job design reward systems, control systems, group-dynamics, communication and decision-making, designing jobs and reward systems, evaluating organizational effectiveness, conflict management, organizational culture, and change.

5513.1(2) Strategic Marketing

In this course, students will develop the understanding and analytical skills needed to make strategic choices for achieving sustainable competitive advantage in the global market. Methods of instruction may include seminar discussions, case analysis, simulations, secondary research, and field research projects.

5514.1(2) Business Research Methods

This course covers the basic topics related to the collection, analysis and presentation of data for business decision-making. Topics include elementary notions of research and theory construction and statistical inferential, sample design, regression and correlation, model building, time series and index, and forecasting. The use of primary and secondary data sources will be addressed. The presentation of research results will emphasize the fundamentals of both written and oral communication techniques for effective presentation of business data/research results.

5521.1.(2) Corporate Finance

The objective of the course is to provide an integrated view of the financing and investment decision of the firm by focusing on how the value of a company is affected by the trade-offs between the returns and risks inherent in all financial decisions. Topics include agency theory signalling and financial compensation schemes and their impact on financial decision making. Students should complete the course having an in-depth appreciation of the nature of the financial markets within which the firm operates together with a solid working knowledge of a wide variety of financial decision techniques.

5522.1.(2) Managerial Economics

This course is designed to provide a foundation of economic understanding for use in managerial decision-making. The major microeconomic topics covered include demand, supply and pricing strategy under different market structures. The theory of demand and the concept of elasticity are developed with emphasis placed on interpreting the empirical estimates of these concepts. Production and cost in both the short run and long run are discussed, and the importance of these factors for managerial decision-making is carefully considered. The appropriate firm pricing policy under perfect competition, monopoly, monopolistic competition and oligopoly is covered as well.

5523.1.(2) Operations Management

This course provides the student with a foundation in the concepts and techniques of operations management, especially the methods used for the planning, organizing and scheduling of operations in both manufacturing and other institutional settings. Students will be introduced to analytic decision making through such techniques as linear programming, decision analysis and simulation. Applications include inventory control, project management, production scheduling and resource allocation.

5524.1.(2) Human Resource Management

This course is about hiring and managing individuals at work. In broad terms, this course exposes a student to the theory and practice of procuring, developing, and utilizing the human resources of an organization. It will help that student to identify several individual, organizational, and environmental factors that influence people at work and which have a decisive influence on an organization's human resource policies. Specific topics dealt with will include: human resource planning, job analysis, recruitment and selection, orientation, training and development, performance appraisal, compensation management, elements of industrial relations, and quality of work-life improvement strategies.

Year 2: Fall and Winter Semester**6631.1.(2) Management Information Systems**

Information Systems play a critical role in the success of most enterprises. Managing the corporate information systems function has become very challenging, with rapidly changing issues and approaches, and greater requirement for information systems strategy to be aligned with business strategy. This course addresses the major management topics associated with managing the MIS function. Topics include user satisfaction and demand for information, managing service quality of MIS, the successful management of technology, the relationship between automation and productivity, data security, and justification of the MIS budget. Management issues in emerging topics such as office systems and microcomputers are also discussed.

6632.1.(2) International Capital Markets

The objective of this course is to understand the global nature of financial markets and the role of international banking. The course commences with a recapitulation of the make-up of a developed market financial system. Particular attention will be focused on the foreign exchange market. The interrelationships within the domestic system and its interdependence with the "world" system are illustrated and the apparent robustness of the system to withstand shocks is assessed, as well as its ability to innovate in the financial claims it can offer and the financial centres that have developed.

6633.1.(2) Policy I – Business Strategy

Course objectives: This course is designed to develop a general management perspective within the context of current strategic management concepts and techniques. The concept of strategy will be used as the theme to develop this course, and to assist in the integration of materials covered in other parts of the EMBA course activities. The primary teaching vehicle in this course will be the case method. Although some lectures will be given, concept development will take place through case discussions, readings and presentations. Background material will be provided by the instructor.

6634.1.(2) Business Research Project I

The object of this research project course is to give the group the opportunity to examine a particular problem in depth. The individual student's work will be supervised by a faculty member. Students will be required to present the findings of the project in the continuing Business Research Project II course, EMB 646.1.(2).

6641.1.(2) International Business

This course focuses on some critical issues facing the manager in the international business arena. Introductory sessions examine issues of international trade and foreign market penetration strategies such as exporting, licensing and joint ventures. The multinational enterprise and organizational problems in international operations are also discussed, including the management of foreign exchange rate risk. After discussing issues of strategy and structure in the multinational enterprises, students will examine issues dealing with the nation-state, both in the developed world and in the less developed regions.

6642.1(.2) Policy II – Public Policy in Business

This course examines the operation of the macroeconomy and discusses the fiscal and monetary tools available to the central authorities to affect overall economic activity. The traditional Keynesian model is developed and the debate between the monetarists and the Keynesians is discussed. The purpose and the effect of government regulations of the business environment will be examined as well.

6643.1(.2) Industrial Relations (Elective)

This course will cover the analysis of structure, functions, and government of the Canadian union movement; application of theoretical models to contemporary problems in labour and industrial relations in Canada; a study of the impact of environmental factors on union management relations. Emphasis will be placed on institutional and behavioral aspects of industrial relations. An attempt will be made to identify the objectives, values and motivations of the various parties involved in collective bargaining and the role of industrial conflict and industrial harmony will be examined in the context of collective bargaining goals.

6644.1(.2) Financial Innovations (Elective)

This course will examine the pace of innovation, deregulation and resulting structural transformations that have occurred in financial markets. Attention will focus on new financial instruments, particularly those that are of an off-balance sheet commitment form.

Note: Insurance Facilities (NIFs), currency and interest rate swaps, currency and interest rate options, Forward Rate Agreements (FRAs), option strategies and index futures will be covered, and future trends in innovations will be addressed.

6645.1(.2) International Marketing (Elective)

This course is designed to provide students with insights into the nature and environmental perspectives of marketing across national boundaries and with those within foreign countries. Emphasis is placed on the analytical processes in international marketing decisions, as well as knowledge of tools and practices for structuring and controlling marketing programs related to international business. Case studies will be used extensively.

6646.1(.2) Business Research Project II

Business research requires the scientific development, planning, execution and reporting of a business research project. The research will be conducted and reported under the guidance of a faculty advisor. The project must be well grounded in the current literature, and the report should include a delineation of the problem, method, results, and conclusions. In this course, students will be required to present their research projects to the EMBA students and faculty.

6647.1(.2) Entrepreneurship and Family Business (Elective)

Through independent research, seminars, and lectures, this course covers the two topics of entrepreneurship and family business. The first topic includes: the nature of entrepreneurship, theories of entrepreneurship, characteristics and behaviours of entrepreneurship, the entrepreneur as catalyst for economic activity in developing and developed economies, and applications of the concepts of entrepreneurship to public and non-profit enterprises both large and small. The second topic includes the historical development and importance of family business, issues of succession, and management problems specific to family businesses.

6690.1(.2) Seminar in Business Studies (Elective)

Prerequisite: completion of all required 5000-level EMBA courses.

The course deals with selected topics in business. The topics to be covered will vary depending on the interest of the students and instructors.

6691.1(.2) Directed Study

Prerequisite: completion of all required 5000-level EMBA courses and permission of EMBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the electives in order to meet the special needs and interests of students.

Film Studies (FILM)

Program Coordinator: J. MacKinnon, Philosophy

A minor in Film Studies is available to undergraduate students in all three faculties.

This minor offers students an opportunity to become familiar with the history of filmmaking, the language employed in discourse about film, and styles of artistic and social commentary about film. The courses pertaining to particular national or regional cinema allow for an understanding of the role of film in creating/expressing social identity; other courses pertain to other courses pertain to the creation of gender identity, and yet others are concerned with film production. This is an Inter-university program which allows students to obtain credit from any of the four participating institutions – Saint Mary's, Dalhousie, Mount Saint Vincent Universities, and the Nova Scotia College of Art and Design.

Requirements: twenty-four (24) credit hours [twelve (12) required credit hours and twelve (12) elective credit hours].

Required courses [twelve (12) credit hours]

(a) either [six (6) credit hours from NSCADU]
 AHIS 2800.03L: Film History and Criticism, 1890-1940, and
 and
 AHIS 2801.03L: Film History and Criticism, 1940-to the present or [six (6) credit hours from Dalhousie]
 THEA 2300.6: Film Study (Students enrolled in this course attend the same lectures as students enrolled in THEA 1300.6: Introduction to Film, but are expected to complete different and more difficult assignments)
 and

(b) also [six (6) credit hours from Mount Saint Vincent]
 FINE 2293: Introduction to Film Language, and
 FINE 2295: Aesthetics of Film

Elective courses [twelve (12) credit hours] currently available from the four cooperating institutions.

Regulations for Concentrations

To obtain a concentration in Film Studies in partial fulfillment of the B.A. General Degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours), a minimum of twenty-four (24) credit hours in FILM is required; also a minimum program grade point average of 2.00. Further details are available from the coordinator.

Saint Mary's University

ACST 3305.1(.2): Moving Images of Atlantic Canada
 ENGL 3313.0: Narrative in Fiction and Film
 HIST 3450.1(.2): Film and History
 RELS 3356.1(.2): Religions in Film

Dalhousie University

ENGL 2095.03 [three (3) credit hours] Narrative in the Cinema
 FREN 2800.03 [three (3) credit hours] Cinema, the French Phenomenon I
 RUSS 2033.03 [three (3) credit hours] Survey of Russian Film
 MUSC 2015.06 ([six (6) credit hours] Music and Cinema
 SPAN 3800.03 [three (3) credit hours] Seminar in Spanish Film
 SPAN 3810.03 ([three (3) credit hours] Seminar in Latin American Film (In Spanish)
 THEA 2310.03 [three (3) credit hours] Film Genres

Mount Saint Vincent University

FINE/WOMS 3330 [three (3) credit hours] Canadian Women Film Directors
 FINE/WOMS 3333 [three (3) credit hours] International Women Film Directors
 ENGL 2213 [three (3) credit hours] Contemporary Film

Nova Scotia College of Art and Design

3000 [three (3) credit hours] Topics: Twentieth Century Art
 3850 [three (3) credit hours] History and Criticism of Documentary Film
 4800 [three (3) credit hours] Independent Studies in Film History, Theory, and Criticism

Students are advised to consult the individual institutions' current *Academic Calendars* for up-to-date course listings.

At Saint Mary's, further information is available from the Film Studies Committee Coordinator John MacKinnon – Tel: 420-5821.

The regular "Declaration of Major/Minor/Concentration" form is used to declare a minor. Students must fulfill all requirements for any minor(s) which they officially declared in order to qualify for graduation, or officially (i.e., in writing) withdraw their declaration of a minor(s).

Finance, Information Systems, and Management Science

(FINA, MGSC, and CISY)

Chairperson,	
Associate Professor	K. Kimery,
Professors	F. Boabang, T. Charles, P. Dixon, J.C. Dodds, E. Lee, H. Millar
Associate Professors	S. Amirkhalkhali, S. Cleary, J. Gregory, D. Jutla, G. MacKinnon, M. Moh'd, S. Sivakumar, M. Wang
Assistant Professors	N. Attig, J. Dai, H. Wang, A. Zaman, G. Ye

The Department of Finance and Management Science offers a variety of courses that may be classified as follows:

- those that deal directly with three of the primary functions of business – finance, information systems, and operations management;
- those whose aim is to develop skills in computing and management science – quantitative methods, and statistics – which indirectly relate to all of the primary functions of business; and
- course offerings in each of the discipline areas are designated by a distinct prefix: Finance (FINA), Management Science (MGSC), and Computing and Information Systems (CISY).

In addition to the core courses in quantitative methods [MGSC 1205.1(.2), MGSC 1206.1(.2), MGSC 2207.1(.2)], computing [CISY 1225.1(.2)], and finance [FINA 2360.1(.2), FINA 3361.1(.2)] which are required for the Bachelor of Commerce degree, the Department offers a number of advanced courses. In particular, those students pursuing a Bachelor of Commerce may elect to major in Finance or Computing and Information Systems. These two programs are outlined in Section 3 of the *Calendar*.

In addition to the computing and information systems program cited above, information on other computer-related degree programs may be found in Section 3 of this *Calendar*.

At the graduate level, the Department offers the core courses [MGSC 5506.1(.2), CISY 5521.1(.2) and FINA 5561.1(.2)] required of all students in Year 1 of the SMBA Program, as well as a number of elective courses available at the 6000-level in Year 2 of the SMBA Program.

Finance (FINA)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of

study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, FINA 2360.1(.2) was formerly FIN 360.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
FIN 360	FINA 2360	FIN 491	FINA 4491
FIN 361	FINA 3361	FIN 492	FINA 4492
FIN 362	FINA 3362	FIN 561	FINA 5561
FIN 363	FINA 3363	FIN 662	FINA 6662
FIN 364	FINA 3364	FIN 663	FINA 6663
FIN 462	FINA 4462	FIN 664	FINA 6664
FIN 463	FINA 4463	FIN 665	FINA 6665
FIN 464	FINA 4464	FIN 666	FINA 6666
FIN 465	FINA 4465	FIN 667	FINA 6667
FIN 466	FINA 4466	FIN 668	FINA 6668
FIN 467	FINA 4467	FIN 669	FINA 6669
FIN 468	FINA 4468	FIN 670	FINA 6670
FIN 469	FINA 4469	FIN 671	FINA 6671
FIN 470	FINA 4470	FIN 676	FINA 6676
FIN 471	FINA 4471	FIN 690	FINA 6690
FIN 476	FINA 4476	FIN 692	FINA 6692
FIN 490	FINA 4490	FIN 699	FINA 6699

2360.1(.2) Business Finance I

Prerequisite: ECON 1201.1(.2) and 1202.1(.2); ACCT 2241.1(.2); and MGSC 1205.1(.2).

A basic course in business finance introducing the student to the discipline and presenting financial analysis, working capital management, capital budgeting, the tax environment and the role of financial intermediaries. Microcomputers will be used to perform analyses.

3361.1.(2) Business Finance II

Prerequisite: FINA 2360.1(.2) and MGSC 2207.1(.2).

A continuation from FINA 2360.1(.2) covering cost of capital, capital mix, capital and money markets, dividend policy, financial instruments and mergers, consolidations and bankruptcy. Microcomputers will be used to perform analyses.

3362.1.(2) Principles of Real Estate and Appraisal

3363.1.(2) Principles of Insurance

3364.1.(2) Canadian Securities

Prerequisite: FINA 2360.1(.2) or permission of instructor.

The topics covered in this course include an overview of capital markets and the financial services industry; financial statement analysis; an overview of the Canadian economy; fixed income securities; equity securities; investment funds; derivatives; security analysis; financing, listing and regulation; financial planning and taxation issues; and portfolio management. These topics are based on the curriculum of the Canadian Securities Course™ (CSC). Substantial additional fees are required for this course.

4462.1.(2) Real Estate Investment Decisions

4463.1.(2) Financial Management

Prerequisite: FINA 3361.1(.2) and COMM 2293.1 (.2).

This course expands on the three basic corporate finance decisions: capital investment, capital structure and dividend policy. It also examines current practices in short and long-term financing as well as financial planning. Finally, the course examines issues in topics such as lease financing, mergers and acquisitions and hedging risk. Case studies may be utilized to apply different concepts and techniques learned in the class to real world problems.

4464.1.(2) Issues in Corporate Finance

Prerequisite: FINA 4463.1(.2) and COMM 2293.1 (.2).

This is a senior level case-study based course in financial management. It integrates the tools learned in earlier courses in finance and applies them to comprehensive cases. By understanding the complexity of and relationship among different financial policies, students will be able to utilize finance theory to make reasonable financial decisions under realistic environments. The course will also emphasize the importance of undertaking research through information gathering for case analysis. Finally, it encourages group discussion and team work, enhances students' presentation skills and their ability to compose a well-structured, meaningful report. Data bases, spreadsheets and some financial analysis software will be used in this course.

4465.1.(2) Mergers, Restructuring and Corporate Control

Prerequisite: FINA 3361.1(.2) and COMM 2293.1 (.2).

The course examines financial and economic aspects of corporate mergers, acquisitions, joint ventures, restructuring, and financial distress. Relations between corporate control and performance are explored.

4466.1.(2) Investments

Prerequisite: FINA 3361.1(.2) and COMM 2293.1 (.2).

This course presents an overview of the Canadian investment environment. A framework is developed for assessing the merits of various securities that trade in the money and capital markets. Topics covered in this course include sources of financial information, Canadian market indicators, risk and return and market efficiency, the analysis of fixed income and equity securities, derivatives and margin trading on securities. A brief introduction to portfolio management is given.

4467.1.(2) Portfolio Management

Prerequisite: FINA 4466.1(.2) and COMM 2293.1 (.2).

A comprehensive analysis of the decision-making process of portfolio management. Major subject areas include the different types of funds, their objectives and performance evaluation; an analysis of the aggregate stock market, industry, and company; bond portfolio analysis and interest rate risk management.

4468.1.(2) Financial Innovations

Prerequisite: FINA 4466.1(.2) and COMM 2293.1 (.2).

This course provides a comprehensive analysis of the types of financial innovations taking place in the marketplace, focusing on derivative securities such as the futures, options, and swap markets. Topics covered include stock and index option strategies, currency options, and interest rate options; commodity futures; currency, interest rate, and commodity swaps. Applications to hedging strategies will be emphasized.

4469.1.(2) Risk Management

Prerequisite: FINA 4466.1(.2) and COMM 2293.1 (.2).

This course provides a comprehensive analysis of the many different types of risk exposure in the financial marketplace. It deals with risk measurement and control, from both the investor's and manager's perspective. Topics include risk and return measurement in the money, bond, equity, mortgage, futures, options and swaps markets, and diversification within domestic and global markets; hedging diversified portfolios using futures and options instruments; management of interest rate risk using caps, floors, and collars and swaps; management of foreign exchange rate risk; management of bank duration gap; and personal risk management.

4470.1(2) Fixed Income Securities

Prerequisite: FINA 4466.1(.2) and COMM 2293.1 (.2).

This course provides a detailed analysis of the bond market and the instruments available therein. Although the emphasis is on North American securities, global portfolios are also examined. Bond valuation and bond portfolio strategies are covered in depth. Treasury securities, corporate bonds, municipal bonds, mortgages, mortgage backed securities, CMO's and interest rate options are addressed.

4471.1(2) Financial Institutions

Prerequisite: FINA 3361.1(.2) and COMM 2293.1 (.2).

This course will deal with the structure and function of Canadian financial institutions such as: banks, brokers and investment banks, insurance companies and mutual funds. The role of each type of institution in the economy will be discussed as well as regulation of the industry. The main emphasis of the course will be on the institutions as businesses; their profit and risk structure.

4476.1(2) International Financial Management

Prerequisite: FINA 3361.1(.2) and COMM 2293.1 (.2).

This course is divided into three major parts. The first part provides a basic understanding of the forces that determine the relative values of currencies in the foreign exchange markets. Parts two and three focus on the firm with the financing of international operations and capital budgeting decisions.

4490.1(2) Seminar in Finance

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course deals with selected topics in finance. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

4491.1(2) Small Business Consultancy

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary's University Business Development Centre. Student Groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project's result for the client.

Work groups often include students from different disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information see <http://www.smu.ca/smubdc>.

Internship 1 semester.

4492.1(2) Directed Study

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular finance courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative. Prior to undertaking registration for this course, students must have a detailed course proposal approved by the appropriate instructor. Proof of this approval must be submitted at the time of registration for the course. Students are encouraged to obtain this approval prior to leaving campus in the spring.

Tutorial and independent study. 1 semester.

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5561.1(2) Business Finance

Prerequisite: SMBA 5502.1(.2), MGSC 5506.1(.2), and ACCT 5540.1(.2).

An introduction to financial management and the role of finance, both within the organization and the economy as a whole with emphasis on financial decision-making. The topics considered include investment decisions and subsequent financing, the costs of capital, the management of assets, and dividend policy.

6662.1(2) Seminar in Real Estate Investment**6663.1(2) Financial Management**

Prerequisite: FINA 5561.1(.2).

Managerial in emphasis, this course examines financial planning and analysis, working capital management, capital budgeting techniques, and theories of cost of capital and valuation of the firm.

6664.1(2) Corporate Finance

Prerequisite: FINA 6663.1(.2).

This course is also managerial in emphasis and covers material related to financing both the short and long term assets of the firm: bank borrowings, bonds, preferred stock, common stock, as well as mergers and consolidation.

6665.1.(2) Mergers and Restructuring

Prerequisite: FINA 5561.1.(2).

The course examines financial and economic aspects of corporate mergers, acquisitions, joint ventures, restructuring and other corporate control transactions. Relations between corporate control transactions and performance are explored. This course will expose students to key corporate finance literature.

6666.1.(2) Capital Markets

Prerequisite: FINA 5561.1.(2).

The purpose of this course is to discuss the management of investments. Although a strong theoretical treatment is adopted, the course is developed in the context of Canadian financial markets and available empirical work will be reviewed. Recent advances in option and bond markets will be developed and computer applications stressed. In addition, the asset-liability management of financial institutions – banks, mutual funds, insurance companies and public funds – will be reviewed.

6667.1.(2) Options, Futures and Swap Markets

Prerequisite: FINA 6668.1.(2).

This course is intended to help students understand activities of the financial institutions in the market place and the types of financial innovations taking place in the market place. Topics covered include contemporary issues in the options and futures markets and applications: stock options, stock index options, foreign currency options, curb options, commodity futures, foreign exchange futures, interest rate futures, stock index futures and interest rate swaps. Applications to hedging strategies are also emphasized.

6668.1.(2) Investments and Portfolio Management

Prerequisite: FINA 5561.1.(2).

This course presents an overview of the Canadian investment environment focusing on various securities that trade in the money, bonds, and equity markets. Both qualitative and quantitative treatments of risks and returns associated with investments in these markets are discussed. Applications to managed (active) and unmanaged (naive) portfolios, performance evaluation and interest rate risk management from the perspective of financial institutions. Topics covered include market transactions, portfolio theory and analysis, asset pricing models and market efficiency, security analysis, equity and fixed-income portfolio management and performance appraisal.

6670.1.(2) Fixed Income Securities

Prerequisite: FINA 6668.1.(2)

This course provides a detailed analysis of the bond market and the instruments available therein. Although the emphasis is on North American securities, global portfolios are also examined. Bond valuation and bond portfolio strategies are covered in depth. Treasury securities, corporate bonds, municipal bonds, mortgage backed securities, CMO's and interest rate options are addressed.

6671.1.(2) Financial Institutions

Prerequisite: FINA 5561.1.(2).

This course will deal with the structure and function of Canadian financial institutions such as: banks, brokers and investment banks, insurance companies and mutual funds. The role of each type of institution in the economy will be discussed as well as regulation of the industry. The main emphasis of the course will be on the institutions as businesses; their profit and risk structure.

6676.1.(2) International Business Finance and Banking

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course is organized around two themes – (i) the concept of the multinational firm and the financial management decisions it takes in a multi-currency world – and (ii) the challenges faced in the international banking system of asset/liability management, offshore financial centres, external debt and rescheduling and increased regulatory and supervisory measures.

6690.1.(2) Seminar in Finance

Prerequisite: FINA 5561.1.(2) and permission of Chairperson.

This course deals with selected topics in finance. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor. In the past these have included real estate, investment and portfolio management, and international banking.

6692.1.(2) Directed Study

Prerequisite: FINA 5561.1.(2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular finance courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative. Prior to undertaking registration for this course, students must have a detailed course proposal approved by the appropriate instructor. Proof of this approval must be submitted at the time of registration for the course. Students are encouraged to obtain this approval prior to leaving campus in the spring.

6699.0 Research Project in Finance

Co-requisite: SMBA 6597.1.(2) and permission of Chairperson.

Each student is required to complete a project involving the practical application of the research concepts and techniques used in finance, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

Management Science (MGSC)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, MGSC 1205.1(.2) was formerly MSC 205.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
MSC 205	MGSC 1205	MSC 506	MGSC 5506
MSC 206	MGSC 1206	MSC 515	MGSC 5515
MSC 207	MGSC 2207	MSC 603	MGSC 6603
MSC 301	MGSC 3301	MSC 604	MGSC 6604
MSC 303	MGSC 3303	MSC 615	MGSC 6615
MSC 317	MGSC 3317	MSC 616	MGSC 6616
MSC 318	MGSC 3318	MSC 618	MGSC 6618
MSC 490	MGSC 4490	MSC 690	MGSC 6690
MSC 491	MGSC 4491	MSC 692	MGSC 6692
MSC 492	MGSC 4492	MSC 699	MGSC 6699

1205.1(.2) Quantitative Methods I

Prerequisite: Nova Scotia Pre-Calculus Mathematics or Mathematics 12 Academic; or MATH 050.1(.2)/0051.1(.2); or equivalent.

This course illustrates applications of basic mathematical techniques in decision-making such as break-even analysis, data manipulation, aggregate planning and financial planning. Topics include linear functions and equations, linear programming and the simplex method, compound interest and annuities.

Note: This is the same course as ECON 1205.1(.2).

1206.1(.2) Quantitative Methods II

Prerequisite: Nova Scotia Pre-Calculus Mathematics or Mathematics 12 Academic; or MATH 0050.1(.2)/0051.1(.2); or equivalent.

Note: No credit will be given for MGSC 1206.1(.2) if taken subsequently to or concurrently with MATH 1210.1(.2).

The purpose of this course is to provide a basic understanding of the dynamics of non-linear functions as they relate to the economic use of scarce resources. Students will be exposed to the basic methods of calculus and the concepts of probability as they relate to decision making in an uncertain environment.

Note: This is the same course as ECON 1206.1(.2).

2207.1(.2) Introductory Statistics

Prerequisite: MGSC 1206.1(.2).

This course is designed to introduce some common decision aids for coping with uncertainty. Topics include: data collection, summarization and presentation, reporting and interpreting the accuracy of results, evaluating the effectiveness of a decision and determining relationships among factors for the purpose of prediction. Examples will be drawn from a variety of fields and disciplines. Since the analysis of data will involve the use of a computer, it is strongly recommended that a course such as CISY 1225.1(.2) be completed beforehand.

Note: This is the same course as ECON 2207.1(.2). Additional credit will not be given for MATH 1207.1(.2); MATH 1216.1(.2); or BIOL 2308.1(.2).

3301.1(.2) Operations Research

Prerequisite: MGSC 2207.1(.2), and CISY 1225.1(.2).

This course provides a survey of various operational research models available to management decision-makers. Emphasis is placed on the selection and formulation of appropriate models, as well as the analysis and interpretation of their computer-generated solutions. Topics covered include: resource allocation, inventory management, and transportation and other network problems.

3303.1(.2) Statistical Analysis for Business and Economics

3317.1(.2) Operations Management

Prerequisite: MGTM 1281.1(.2), MGSC 1205.1(.2) and MGSC 2207.1(.2).

This course addresses operations issues that contribute to how firms compete with respect to cost, quality, time and flexibility. Topics include project management, product/service and process design, process flows, quality, and supply chain management (including forecasting, inventory management, JIT, and supplier relations). Examples will be drawn from both service and manufacturing sectors.

3318.1(.2) Total Quality Management

Prerequisite: MGSC 2207.1(.2).

Quality is an important competitive weapon in modern business strategy. Students will understand the principal role of total quality in improving the competitiveness of the firm in both local and global business environments. Topics include: total quality management (TQM) philosophies, dimensions of product and service quality, modern statistical improvement tools, and the design of quality strategies.

4490.1(.2) Seminar in Management Science

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course deals with selected topics in management science. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

4491.1(.2) Small Business Consultancy

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary's University Business Development Centre. Student groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project's results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information, see <http://www.smu.ca/smubdc>.

Internship. 1 semester.

4492.1(.2) Directed Study

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular management science courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5506.1(.2) Statistics for Managers

Emphasis in this course will be on developing the conceptual foundations and an in-depth understanding of the most useful statistical techniques used in marketing and management studies, in financial and economic analysis, and in accounting work. Topics include descriptive and inferential statistics, multiple regression, forecasting and quality control. The focus will be on statistical analysis of real business problems in their full complexity. Extensive use will be made of a computer package such as Excel for exploring sets of data, for testing hypotheses, and for testing assumptions.

5515.1(.2) Management of Operations

Prerequisite: MGSC 5506.1(.2)

This course will provide students with an understanding of the fundamental aspects of managing operations in service and production environments with greater emphasis on services. Significant attention will be given to operations issues relating directly to performance priorities such as cost, quality, flexibility, time and delivery. Topics include: operations strategy, project management, quality management, purchasing and supply chain management, forecasting, and product and service design. The course will make use of cases and will emphasize the use of the spreadsheet modeling as a tool for planning and managing operations.

6603.1(.2) Statistical Applications in Management Science

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course brings together many of the theories and skills which the student has learned and uses them in designing, conducting, analyzing, and reporting the results of research designs. Statistical techniques used are: chi-square, analysis of variance, and multiple regression. Extensive use is made of computer-oriented statistical packages.

6604.1(.2) Statistical Applications in Management Science II

6615.1(.2) Strategic Design and Improvement of Operations

Prerequisite: MGSC 5515.1(.2) or enrolment in MBA-CMA program.

This course is aimed at the student who wants to deepen their understanding of the strategic role of operations and the design of operations to facilitate competitive advantage in both service and production environments. The strategic design and improvement of operations will be examined in the context of key performance priorities such as: cost, quality, flexibility, delivery, and time. Topics include: process design and improvement, implementation of operations improvement strategies, and integration of information technology and operations systems. The course will make significant use of cases and group work.

6616.1(2) Project Management

Prerequisite: completion of all 5000-level SMBA courses.

This course introduces students to fundamental issues in managing projects: project definition and scope, networks, risk management, scheduling, monitoring, organizational structure and leadership, and professional requirements. Students are exposed to project management software.

6618.1(2) Total Quality Management

Prerequisite: MGSC 5506.1(2) and SMBA 5502.1(2).

This course introduces the student to the concepts of total quality management, quality improvement, and statistical quality control as key ingredients of a quality strategy. The role of a quality strategy in improving the competitiveness of the firm in both local and international markets is emphasized. Using a case-oriented approach, students will be introduced to the philosophies of Deming, Juran and Crosby, the dimensions of product and service quality, modern statistical improvement tools, and the relationship between quality strategy and the functional areas of the firm.

6690.1(2) Seminar in Management Science

Prerequisite: MGSC 5515.1(2) and permission of Chairperson.

This course deals with selected topics in management science. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

6692.1(2) Directed Study

Prerequisite: MGSC 5515.1(2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular management science courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

6699.0 Research Project in Management Science

Co-requisites: SMBA 6597.1(2) and completion of one MGSC 6000-level course (or concurrent).

Each student is required to complete a project involving the practical application of the research concepts and techniques used in management science, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

Computing and Information Systems (CISY)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, CISY 1225.1(2) was formerly CSI 225.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
CIS 225	CISY 1225	CIS 491	CISY 4491
CIS 320	CISY 2320	CIS 492	CISY 4492
CIS 324	CISY 2324	CIS 521	CISY 5521
CIS 326	CISY 3326	CIS 624	CISY 6624
CIS 327	CISY 3327	CIS 625	CISY 6625
CIS 328	CISY 3328	CIS 636	CISY 6636
CIS 425	CISY 4425	CIS 690	CISY 6690
CIS 435	CISY 4435	CIS 692	CISY 6692
CIS 436	CISY 4436	CIS 699	CISY 6699
CIS 490	CISY 4490		

1225.1(2) Introduction to Computer Applications

This course is an introduction to computers and their use in a number of different environments. The emphasis is placed on learning the use of common business software packages and programming. Other topics will include computer hardware and software, data processing and information systems.

2320.1(.2) Business Applications Programming

Prerequisite: CISY 1225.1(.2) or CSCI 1226.1(.2)

This is a foundation programming language course that presents fundamental principles used in writing business applications. Primitive data types, objects, controls, basic data structure, flow control constructs, reusable modules, and debugging techniques are covered. Further topics include parameter passing methods, arrays, error handling, and file processing. The implementation language, such as Visual Basic, will utilize object-oriented programming concepts. This course is a foundation course for the CISY program.

2324.1(.2) The Use of COBOL in Data Processing

Prerequisite: CISY 1225.1(.2) or CPSC 1226.1(.2).

COBOL program organization, file organization, description and accessing, edit, sort, file maintenance and report writing programs, arrayed data, integration concepts, multi-programming concepts.

3326.1(.2) Database Programming

Prerequisite: CISY 2320.1(.2).

This course covers topics in modeling data to meet organizational requirements, programming business applications on a current database management platform, the SQL command language, and managing data security and database administration. Also included are topics on hierarchical, distributed, and object oriented databases.

3327.1(.2) Web Information Systems

Prerequisite: CISY 2320.1(.2).

This course introduces students to web information systems, a sub-area of CISY that focuses on those systems that interact with the World Wide Web. Course content includes a survey of WIS applications, conceptual foundations for the design and integration of WIS applications, as well as hands-on experience designing and building WIS applications. Specific topics may include the design, implementation, management and evaluation of web pages, web-enabled applications, and web-integrated databases.

3328.1(.2) Computer Organization

Prerequisite: CISY 2320.1(.2)

This course focuses on an introduction to the computer hardware and software needed to run standard business applications in small, medium and large enterprises. Topics include hardware and software in personal computers, main frame centric environments, and client-server architectures. The course also covers local area network architectures and technologies.

4425.1(.2) Systems Analysis and Design

Prerequisite: COMM 2293.1 (.2), ACCT3323, CISY 3326.1(.2) and CISY 3328.1(.2) (or concurrent)

The intent of this course is to provide the student with the necessary skills to successfully apply state-of-the-art information systems methodologies to the planning, analysis, design, and implementation phases of information systems projects. These skills include, but are not limited to, information systems strategy development, requirements analysis for business processes, business process modeling techniques, data and architectural modeling techniques, and project management skills and techniques. Students work in teams to perform a real-life systems analysis and design exercise for a business organization.

4435.1(.2) Information Systems Projects & Practice

Prerequisite: CISY 4425.1(.2) and COMM 2293.1 (.2).

This course focuses on the design and development of information systems (IS) to support business decision-making. Students explore different types of decision support systems (DSS), including expert systems, simulation, and data mining. IS project management techniques are reinforced via a team-based DSS design project. Expectations of new entrants into IS careers, including required technical and business competencies, ethical obligations, and professional conduct, are also addressed.

4436.1(.2) Communication Networks and Security

Prerequisite: CISY 3328.1(.2) and COMM 2293.1 (.2).

This course is an introduction to data communications and computer network systems from a business application perspective. Topics covered include fundamental concepts of data communications, types of communication links, wireless networks, TCP/IP networks, telecommunication and wide area networks. Security topics such as identifying networked enterprise threats, and security technologies for networks for the purposes of secure data transmission and access control, including encryption, authentication, and non-repudiation technologies, are also covered.

4490.1(.2) Seminar in Computing and Information Systems

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course deals with selected topics in computing and information systems. It is offered when in sufficient demand, and specific topics covered may vary depending on the interest of the students and instructor.

4491.1(.2) Small Business Consultancy

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary's University Business Development Centre. Student groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project's results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information, see <http://www.smu.ca/smubdc>.

Internship. 1 semester.

4492.1(.2) Directed Study

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular computing and information systems courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5521.1(.2) Managing Information and Technology

This course focuses on developing an in-depth understanding of information technology in the workplace (e.g., hardware, software, and networks), organizational implications of information systems, and building and managing information systems. Instructional methods will include class discussions, case analyses, and practical projects for actual businesses.

6624.1(.2) Database Systems

Prerequisite: Cisy 5521.1(.2).

Students will examine the design, implementation and management issues associated with database systems. The problems which arise through incorrectly designed databases are identified and their resolutions discussed. Topics on transaction processing and databases on the WWW are also covered. Labs based on an RDBMS package are given to provide a vehicle for practical implementation.

6625.1(.2) Electronic Commerce

Prerequisite: Cisy 5521.1(.2).

This course uses a multi-disciplinary approach to describe issues in Electronic Commerce. E-commerce business models and supporting technologies are described. Deployment platforms, server farms, complementary business strategies for e-commerce adoption and human resource investment in e-commerce are covered. Security issues, payment systems and legal aspects of e-commerce will be detailed. Emerging issues will be discussed.

6636.1(.2) Decision Support Systems

Prerequisite: Cisy 5521.1(.2).

This course will introduce students to the specialized use of computer systems for supporting and enhancing managerial decision-making. Students will be introduced to the basic architecture of DSS, as well as issues involving design and implementation of various types of DSS (i.e., data mining, group DSS, expert systems). The course includes instruction in advanced features of Microsoft Excel. An application project will be completed either in teams or individually during the semester.

6690.1(.2) Seminar in Computing and Information Systems

Prerequisite: Cisy 5521.1(.2).

This course deals with selected topics in computing and information systems. It is offered when in sufficient demand, and specific topics covered may vary depending on the interest of the students and instructor.

6692.1(.2) Directed Study

Prerequisite: Cisy 5521.1(.2) and permission of Chairperson.

Intended to supplement or provide an alternative to the regular computing and information systems courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

6699.0 Research Project in Computing and Information Systems

Co-requisites: SMBA 6597.1(.2) and completion of one Cisy 6000-level course (or concurrent).

Each student is required to complete a project involving the practical application of the research concepts and techniques used in computing and information systems, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

Forensic Sciences (FRSC)

Program Coordinator: Dr. Paul Erickson, Anthropology

Forensic science encompasses the methodology and interpretation of data collected in the investigation of deaths, or other events, which could be criminal in nature. In Canada, police forces are regularly involved in forensic investigations, but there are others, e.g., medical personnel, dentists, biologists, criminologists and anthropologists, who are interested in, or can benefit from, training in forensic sciences.

This program is designed to give the student a strong grounding in the different science disciplines (e.g., biology, chemistry, and physics) that form the basis of the techniques used in forensic investigations. This science basis is provided through introductory and specialty courses offered from Departments in the Science Faculty. Students may broaden their knowledge by choosing from a list of complementary courses offered by Departments in the other Faculties (e.g., anthropology, sociology). Experts in forensic techniques will expose students to the application of this knowledge, primarily through the Application of Forensic Techniques course [FRSC 3300.1(.2)].

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, FRSC 2200.1(.2) was formerly FOR 200.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
FOR 200	FRSC 2200
FOR 201	FRSC 2201
FOR 300	FRSC 3300

Admission

Entry to this Diploma program is by permission of the Program Coordinator. To be admitted, students must be enrolled in a Saint Mary's University degree program in the Faculty of Arts, Commerce, or Science, have completed thirty (30) credit hours with a grade point average of at least 3.00 and declared a major. Application is made in writing, by **March 1** to the Program Coordinator and must include a brief statement describing reasons for choosing the program and any work-related experience or goals. Because of the significant interest in forensic science, the number of qualified students permitted entry to this Program may have to be limited. Those admitted to this Diploma program are regarded as being in a dual academic program and are required, therefore, to follow the rules and regulations stipulated for this status. (**Reference Academic Regulation 24.**)

Police officers and mature students with work-related experience in forensic science may be admitted directly to this Diploma program without being admitted to a degree program. **Note:** These are the only two categories of applicants who can pursue the Diploma program alone without being enrolled concurrently in a degree program.

Graduation

The requirement of a minimum cumulative grade point average of 3.00 applies to all students in this Diploma program.

Requirements for the Diploma in Forensic Sciences [sixty (60) credit hours]

1. Required courses [twenty-seven (27)]

*FRSC 2200.1(.2) Basic Sciences for Forensics I
 *FRSC 2201.1(.2) Basic Sciences for Forensics II
 BIOL 1201.1(.2) Molecular and Cell Biology
 BIOL 1202.1 (.2) Organismal and Ecological Biology
 CHEM 1210.1(.2) General Chemistry and
 CHEM 1212.1(.2) Chemistry for Life Sciences
 *FRSC 3300.1(.2) Application of Forensic Techniques
 *BIOL 2307.1(.2) Genetics
 BIOL 4419.1(.2) Molecular Biology

Science-intensive courses [twenty-one (21) to twenty-four (24) credit hours]

ANTH 3373.1(.2) Fieldwork in Archeology
 ANTH 4464.1(.2) Advanced Fieldwork in Archeology
 ANTH 3471.1(.2) Forensic Skeletal Identification
 ANTH 3472.1(.2) Forensic Skeletal Analysis
 *BIOL 2322.1(.2) General Physiology I
 *BIOL 2323.1(.2) General Physiology II
 BIOL 3327.1(.2) Anatomy and Functional Morphology of Vertebrates
 BIOL 2398.1(.2) Introduction to Microbiology
 BIOL 3426.1(.2) Animal Tissues
 *BIOL 2427.1(.2) Introductory Entomology

CHEM 2332.1(.2) Introductory Analytical Chemistry: Wet Methods
 CHEM 2333.1(.2) Introductory Analytical Chemistry: Instrumental Methods
 CHEM 2344.1(.2) Organic Chemistry I
 CHEM 2345.1(.2) Organic Chemistry IIA
 OR
 CHEM 2346.1(.2) Organic Chemistry IIB
 CHEM 3451.1(.2) Introductory Biochemistry
 PHYS 1235.1(.2) Physics for Life Sciences I
 PHYS 1236.1(.2) Physics for Life Sciences II

3. Electives [nine (9) – twelve (12) credit hours].

Diploma students may qualify for up to six (6) credit hours based on prior training.

ANTH 3374.1(.2) Archeology Laboratory
 ANTH 4465.1(.2) Advanced Archeology Laboratory
 BIOL 2308.1 (.2) Biostatistics
 BIOL 4408.1(.2) Embryology
 CRIM 2303.1(.2) Crime and Society, entry to this course may be restricted
 CRIM 2304.1(.2) Canadian Criminal Justice System, entry to this course may be restricted
 GEOG 2316.1 (.2) Map and Air Photo Interpretation
 GEOG 3386.1(.2) Concepts in Geographical Information Systems (G.I.S.)
 PSYC 1210.1(.2) Mind and Brain
 PSYC 1230.1(.2) Memory
 PSYC 3320.1(.2) Psychology and Law
 *PSYC 3355.1(.2) Cognitive Psychology
 *PSYC 1260 Personality: Normal and Abnormal

Note: students must satisfy all prerequisites for entry into these courses.

Courses marked * may be offered on-line. For more information contact the Department of Continuing Education.

The following courses are reserved exclusively for students officially accepted in the Diploma in Forensic Sciences Program at Saint Mary's. Courses in Forensic Science cannot be used to satisfy course requirements for the major or honours in Biology.

All the following courses have 3 hrs. classes and 3 hrs. lab/tutorial per week.

FRSC 2200.1(.2) Basic Sciences for Forensics I

Prerequisite: acceptance into Diploma in Forensic Sciences Program.

This course will provide students with an introduction to the biology and chemistry that forms the basic scientific background applicable to the study of forensic science. Topics covered will include basic cell biology and genetics, anatomy, physiology, embryological development of humans, organic, and analytical chemistry.

FRSC 2201.1(.2) Basic Sciences for Forensics II

Prerequisite: acceptance into Diploma in Forensic Sciences Program.

This course is a continuation of Basic Sciences for Forensics I and will cover such topics as principles of physics, entomology, microbiology, psychology, and anthropology relevant to forensics.

FRSC 3300.1(.2) Application of Forensic Techniques

Prerequisite: FRSC 2200.1(.2) and 2201.1(.2).

This course will provide students with an introduction to the procedures for conducting a forensic investigation. Students will learn how to retrieve and document potential evidence and identify victims and suspects. Topics such as fingerprinting, forensic odontology and entomology, bloodstain pattern analysis, DNA collection, toxicology, and non-biological trace evidence collection will be included.



Kathleen Gould, a student enrolled in the Master of Applied Science program (Geology) at Saint Mary's University, is receiving a boost for her career plans in the energy sector. She has been selected to receive the 2005 Pengrowth-Nova Scotia Petroleum Innovation Grant.

Geography (GEOG)

Chairperson,	P. Giles
Associate Professor	R. McCalla, H. Millward
Professors	C. Conrad, B. Robinson,
Associate Professors	D. van Proosdij
Assistant Professor	C. Suteanu
Professor Emeritus	D. Day

General Information

Geography is the study of the Earth's surface, and of the spatial distribution and patterns of its physical and human characteristics. Geographers study how nature and culture work to create distinct spaces, places, landscapes, and regions. Geography is a subject of practical importance in such fields as urban and regional planning, industrial location, marketing, resource development, environmental monitoring and management, and geomatics. It is possible to obtain a major or honours in geography in either a Bachelor of Arts or Bachelor of Science degree program.

Departmental Policy

1. The Department regards 1000-level courses as both service courses for the university in general and basic introductory courses for geography majors. Higher level courses are designed primarily to serve the interest of geography majors but may be of interest to students in cognate areas. In some cases, the Department may allow a student from a cognate area to take the course without the stated prerequisite; for example, economics students may be admitted to GEOG 3321.1(.2) and history majors may be allowed to take GEOG 4439.1(.2).
2. GEOG 1203.1(.2) is not recognized as a science credit to satisfy Faculty of Science regulation 6e.
3. The course content in most geography courses is cumulative.
4. Where a prerequisite is specified, a student wishing to take the course must have obtained at least a C grade in the stated prerequisite.
5. Normally 2000, 3000, and 4000-level courses are not open to students in their first year at university.
6. In order to register for a course without the stated prerequisites, students must first obtain permission from the instructor or the Chairperson.
7. Because program changes occur from time to time with renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level or under a different number.

8. Majors and honours students must normally complete GEOG 2316.1(.2) and GEOG 2336.1(.2) before the end of their second year or, in the case of part-time students, before proceeding to other upper level courses.

9. All majors and honours students are assigned a faculty advisor with whom they should consult each year to review their progress and course selection.

10. For more complete information on geography programs, students should contact the Chairperson.

11. Geography courses are divided into four groups:

Group A -human geography courses;

Group B -physical geography courses;

Group C -techniques or methods courses;

Group D -integrative courses which may combine aspects of human geography, physical geography or techniques.

Depending on the degree program, Bachelor of Arts or Bachelor of Science, the required courses from each group vary. The group to which each course belongs is shown beside each course's title.

General Requirements for a Major

Geography is both a social science as well as a natural science. Students may major in geography and obtain a Bachelor of Arts or Bachelor of Science degree. In either case forty-eight (48) geography credit hours are required. Not only must students meet the geography requirements to qualify for a major in geography in either a Bachelor of Arts or Bachelor of Science degree, they must also meet individual Faculty requirements to qualify for the degree (see relevant sections of the Calendar). Students in the Faculty of Arts must maintain a minimum cumulative grade point average of 2.00 (an average grade of C) in courses used to meet the minimum credit requirements for the major. Students in the Faculty of Science must obtain a grade of not less than C in every course used to meet the minimum credit requirements for the major. Students wishing to major in geography in the B.Sc. program are strongly encouraged to take at least six (6) credit hours in geology.

General Requirements for a Major in Bachelor of Arts Program

- i. GEOG 1203.1(.2), GEOG 1204.1(.2), and one of 2213.1(.2) or 2214.1(.2);
- ii. GEOG 2316.1(.2), 2336.1(.2) and three (3) credit hours from GEOG 3326.1(.2), 3356.1(.2), 3366.1(.2), or 3386.1(.2);
- iii. Nine (9) credit hours in GEOG at the 4000-level; and
- iv. Twenty-one (21) credit hours in GEOG.

Note: In addition to the eighteen (18) credit hours defined in (i) and (ii), the thirty (30) additional credit hours in GEOG may be taken from any group (A, B, C, D). After the

student attains forty-eight (48) credit hours in GEOG, only Group A, C, and D courses count towards the “sixty-six (66) credit hours in Arts subjects as the 2000-level or above” (Faculty of Arts Regulation 1a). Additional Group B courses could be taken as electives.

General Requirements for a Major in Bachelor of Science Program

- i. GEOG 1203.1(.2), 1204.1(.2), and 2213.1(.2);
- ii. GEOG 2316.1(.2), 2336.1(.2) and three (3) credit hours from GEOG 3326.1(.2), 3356.1(.2), 3366.1(.2), or 3386.1(.2);
- iii. At least fifteen (15) other credit hours from Group B courses at the 2000-level or above, of which at least six (6) credit hours must be at the 4000-level; and
- iv. Fifteen (15) credit hours from any group.
- v. A total of nine (9) credit hours in GEOG must be at the 4000-level.

Note: After the student has attained the required forty-eight (48) credit hours in GEOG, any additional GEOG credits would be taken as free electives in the Faculty of Science.

Concentration in GEOG Requirements

Students registered in the ninety (90) credit hour Bachelor of Arts General Program may complete the concentration requirement in Geography by taking twenty-four (24) credit hours in Geography, to include:

- i. GEOG 1203.1(.2) or 1204.1(.2)
- ii. GEOG 2213.1(.2) or 2214.1(.2)
- iii. Eighteen (18) credit hours in GEOG at the 2000-level or above.

Students registered in the ninety (90) credit hour Bachelor of Science General Program may complete the concentration requirement in Geography by taking thirty (30) credit hours in Geography credits, to include:

- i. GEOG 1203.1(.2), 1204.1(.2), and 2213.1(.2)
- ii. nine (9) credit hours from Group B or C courses
- iii. twelve (12) credit hours of GEOG that are not designated.

Double Majors and Geology/Geography Combined Programs

Students wishing to complete a double major in geography and another subject must meet the requirements for a major in geography as stated above. Bachelor of Arts and Bachelor of Commerce double major students would complete the requirements for a geography major in Bachelor of Arts program; Bachelor of Science double major students would complete requirements for a geography major in the Bachelor of Science program.

Note: See the Geology section of the *Academic Calendar* for particular course requirements to complete the Geology/Geography Combined program which allows students to complete either a major or honours.

Geography Major (Bachelor of Arts) with a Minor in Geology

1. A Bachelor of Arts degree student may major in geography with a minor in geology by fulfilling the requirements for a minor as listed in the geology section of the *Academic Calendar*.
2. Courses that are cross-listed between geography and geology may only count towards the geology minor if they are taken as geology credit hours. (If they are taken as geography credit hours they can only apply to the geography major.)
3. Students accepted into the geology minor program will be allowed to count twenty-four (24) credit hours in geology towards their Arts degree requirements.

Honours Program

1. Depending on whether the student is undertaking a Bachelor of Arts or a Bachelor of Science degree, the regulations of the respective Faculty apply to admission, continuance and graduation from honours program.
2. To be admitted to the honours program, a student must have at least a B standing in geography courses and have obtained satisfactory grades in non-geography courses. Possession of the minimum requirements does not establish the right of an applicant to be admitted, or readmitted, to the program.
3. Each year students should seek advice on their program of courses from the Honours Program Coordinator.
4. Students admitted to the program are responsible for finding a member of the Department to act as their Honours Research Project supervisor.
5. Complete details regarding the Honours Research Project are contained in *Regulations for the Honours Research Project (Geography 4526.0)* available from the Departmental secretary.
6. Besides meeting the respective Faculty credit hours and grade level requirements, students must complete a total of seventy-two (72) credit hours in geography to qualify for graduation with honours.

For the Bachelor of Arts degree, the seventy-two (72) credit hours are:

- i. GEOG 1203.1(.2), 1204.1(.2) and either 2213.1(.2) or 2214.1(.2);
- ii. GEOG 2316.1(.2), 2336.1(.2), 3326.1(.2), and one of GEOG 3356.1(.2), 3366.1(.2), or 3386.1(.2);
- iii. GEOG 4406.1(.2) and 4416.1(.2);
- iv. GEOG 4526.0; and
- v. Thirty-nine (39) other GEOG credit hours from any group of which at least six (6) credit hours must be at the 4000-level.

For the Bachelor of Science degree, the seventy-two (72) credit hours are:

- i. GEOG 1203.1(.2), 1204.1(.2), and 2213.1(.2);
- ii. GEOG 2316.1(.2), 2336.1(.2), 3326.1(.2), and one of GEOG 3356.1(.2), 3366.1(.2), or 3386.1(.2);
- iii. At least eighteen (18) credit hours from Group B courses at the 2000-level or above, of which at least six (6) credit hours must be at the 4000-level;

- iv. GEOG 4406.1(.2) and 4416.1(.2);
- v. GEOG 4526.0; and
- vi. Twenty-one (21) other GEOG credit hours from any group.

Minor Program in Geography

Students in a Bachelor of Arts or Bachelor of Commerce program wishing to complete a Minor in geography are required to complete at least twenty-four (24) credit hours in geography, including:

- i. GEOG 1203.1(.2) or 1204.1(.2)
- ii. GEOG 2213.1(.2) or 2214.1(.2)
- iii. eighteen (18) other GEOG credit hours

Students in a Bachelor of Science program wishing to complete a Minor in geography are required to complete at least thirty (30) credit hours in geography, including:

- i. GEOG 1203.1(.2), 1204.1(.2), and 2213.1(.2)
- ii. nine (9) credit hours from Group B and C courses
- iii. twelve (12) other GEOG credit hours that are not designated.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, GEOG 1203.1(.2) was formerly GPY 203.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
GPY 203	GEOG 1203	GPY 366	GEOG 3366
GPY 204	GEOG 1204	GPY 379	GEOG 2379
GPY 213	GEOG 2213	GPY 380	GEOG 3380
GPY 214	GEOG 2214	GPY 386	GEOG 3386
GPY 300	GEOG 3300	GPY 390	GEOG 2390
GPY 302	GEOG 2302	GPY 394	GEOG 4394

GPY 304	GEOG 2304	GPY 406	GEOG 4406
GPY 305	GEOG 2305	GPY 413	GEOG 4413
GPY 311	GEOG 2311	GPY 414	GEOG 4414
GPY 312	GEOG 2312	GPY 416	GEOG 4416
GPY 313	GEOG 3313	GPY 423	GEOG 4423
GPY 315	GEOG 3315	GPY 424	GEOG 4424
GPY 316	GEOG 2316	GPY 432	GEOG 4432
GPY 321	GEOG 3321	GPY 433	GEOG 4433
GPY 325	GEOG 3325	GPY 436	GEOG 4436
GPY 326	GEOG 3326	GPY 439	GEOG 4439
GPY 329	GEOG 3329	GPY 442	GEOG 4442
GPY 332	GEOG 3332	GPY 443	GEOG 4443
GPY 333	GEOG 2333	GPY 444	GEOG 4444
GPY 336	GEOG 3336	GPY 449	GEOG 4449
GPY 339	GEOG 2339	GPY 452	GEOG 4452
GPY 340	GEOG 3340	GPY 454	GEOG 3454
GPY 343	GEOG 3343	GPY 465	GEOG 4465
GPY 353	GEOG 3353	GPY 466	GEOG 4407
GPY 356	GEOG 3356	GPY 467	GEOG 4467
GPY 360	GEOG 3360	GPY 496	GEOG 4496
		GPY 526	GEOG 4526

1203.1(.2) Physical Geography: Global Patterns (Group B)

An introduction to physical geography by studying global patterns of Earth’s natural environment. Spatial and temporal patterns are emphasized and explained by describing underlying processes. Topics include: the Earth-sun system, oceans, global heat circulation, climate, biogeographical realms, soils, and plate tectonics. A complement to introductory courses in human geography and a preparation for studying physical geography at local to regional scales in GEOG 2213.1(.2).

1204.1(.2) Demographics and Culture (Group A)

An introduction to the study of human geography. The course describes and explains geographical patterns of the customs, social forms and material traits of human groups. Topics for discussion are: population, migration, language, religion, social beliefs and political organization. Consideration of topics is at the global, regional and local scale.

2213.1(.2) Physical Geography: Local and Regional Patterns (Group B)

Prerequisite: GEOG 1203.1(.2).

A continuation to the introduction of physical geography that focuses on patterns and processes occurring at local and regional scales. Phenomena to be covered include: weather, tides and waves, landforms, effects of environmental changes, natural hazards, the influence of topography on physical patterns, and human impacts on landscapes. There will be introductions to reading topographic maps and to the methods of remote sensing and aerial photography interpretation.

Classes 2 hrs. and lab 2 hrs. a week.

2214.1(2) Environment and Livelihood (Group A)

Prerequisite: GEOG 1204.1(.2).

A continuation from GEOG 1204.1(.2). This course describes and explains geographical patterns of resource exploitation, Earth use and abuse. Topics for discussion include economic development, food production, industry, rural settlement, urbanization and resource management. Consideration of topics is at the global, regional and local scale.

Classes 2 hrs. and lab 2 hrs. a week.

2302.0 The Geography of World Affairs (Group D)

Prerequisite: at least thirty (30) credit hours.

The course introduces students to various facets of geography and to different approaches to geographical analysis, through a study of major world problems including conflicts over the division of land, sea and outer space; relationships between population growth and resources; food supply and health problems; natural hazards; the effects of climatic change; levels of economic development; ethnic and religious conflicts.

2304.1(2) Environmental Management (Group D)

Prerequisite: GEOG 1203.1(.2) and 1204.1(.2).

This course examines modern policy approaches to the management of environmental resources and landscapes. Specific environments and selected management issues focusing on the natural environment (such as soil erosion, water pollution, and natural hazards) will be examined, together with methods of environmental planning and impact assessment.

2305.1(2) The Oceans: A Physical Geography (Group B)

Prerequisite: GEOG 2213.1(.2).

This course begins with a study of the role of the oceans in the global environment. It considers the origin, nature, and distribution of ocean relief features, the principles and patterns of water circulation, and factors affecting the distribution and abundance of marine life. The implications of global climatic changes such as the Greenhouse effect on the oceanic environment will be considered, as well as the effects of the physical geography on human use of the oceans.

2310.1(2) Geography of Canada: Overview

Prerequisite: at least thirty (30) credit hours.

This course provides an overview of the physical, social, cultural and economic geographical characteristics of Canada taken as a whole and within its distinct regions. How humans affect and are affected by the physical environment will be a recurrent theme. The course serves as a prerequisite for GEOG 3310.1(.2).

2311.1(2) Rural Geography (Group A)

Prerequisite: GEOG 1204.1(.2).

Examines the nature of rural settlement and land use in various cultural and technological settings. Emphasis is placed on agricultural patterns, and the changing organization of the countryside in modern societies. Topics include frontier settlement; land surveys; village morphology; land abandonment; farm enlargement and fragmentation; forestry, mining, and recreational uses; commuting; and conflicts over multiple land use and scenic preservation.

2312.1(2) Urban Land Use (Group A)

Prerequisite: GEOG 1204.1(.2).

The course analyzes the pattern of land use and the process of land use change in the city. Topics include: measurement and classification of land use; land use mix; models of the internal structure of cities; land values and land use zoning; the characteristics and use of residential, commercial, manufacturing land in cities; public and semi-public land; the impact of public policies on urban land use.

2316.1(2) Map and Air Photo Interpretation (Group C)

Prerequisite: GEOG 1203.1(.2) and 1204.1(.2).

The first part of the course will focus on the properties, interpretation, and analysis of official series maps such as topographic maps, land capability maps, and nautical charts. This will be followed by an analysis of the properties of aerial photographs and the principles of air photo interpretation.

Classes 2 hrs. and lab 2 hrs. a week.

2325.1(2) Cross-listed as GEOL 2325.1(2) Sedimentology (Group B)

Prerequisite: GEOG 2213.1(.2) or GEOL 1200.1(.2) or GEOL 1201.1(.2).

Note: Students who are registered for this course or who have already received credit for this course may not register for GEOG 3313.1(.2) or GEOL 3373.1(.2).

2333.1(2) Biogeography (Group B)

Prerequisite: GEOG 1203.1(.2).

A study of the spatial and temporal distribution of plants and animals on Earth. Local to global scale patterns of species distribution in terrestrial and marine environments are explained by examining physical controls, ecological principles, and human impacts. Species changes over space and time are described by covering evolution, migration, succession, and extinction. Examples are drawn from Atlantic Canada where possible.

2336.1(2) Principles of Cartography (Group C)

Prerequisite: GEOG 1203.1(2) and 1204.1(2).

An introduction to the design, compilation, and construction of maps as a medium for communication and research. Topics include the history of map making, cartographic critique, generalization, lettering, symbolization, and colour. The major types of thematic mapping (proportional symbols, isopleths and choropleths) are studied. Geographic Information Systems (GIS) are introduced.

Classes 2 hrs. and lab 2 hrs. a week.

2339.0 Cultural Geographies (Group A)

Prerequisite: GEOG 1204.1(2).

Cultural themes include globalization, local diversity, tourism, home, place, and representations of all of the above in the media, the tourist industry, and by cultural producers in general. The emphasis on the course is on doing cultural geography in projects rather than on consuming culture as a content or body of knowledge. Special emphasis is placed on understanding the local cultural environment (e.g., Halifax) in the context of wider issues (e.g., tourism, globalization, and media representations).

2379.1(2) Cross-listed as ANTH 2379.1(2) and IRST**2379.1(2) Irish Material Culture (Group A)**

Prerequisite: at least thirty (30) credit hours.

2390.1(2) Geography of Ireland (Group D)

[IRST 2391.1(2)]

Prerequisite: at least thirty (30) credit hours.

An examination of the physical, social, cultural, economic, and political geography. Special emphasis will be given to the nature of past and present internal population movements and emigration patterns, regional variations in economic development, and the effects of membership in the European Union.

3310.1(2) Geography of Canada: Issues

Prerequisite: GEOG 2310.1(2).

An in-depth analysis of geographical issues in Canada which may include, but are not restricted to, issues in resource management, land policy issues including land claims, tourist development, environmental impacts, economic development, urbanization, immigration and migration. Students will be expected to identify those issues, undertake a geographical analysis of their dimension and present their results to the class.

3313.1(2) Geomorphology (Group B)

[GEOL 3373.1(2)]

Prerequisite: GEOG 2213.1(2); or GEOL 1214.1(2) and 1215.1(2).

Geomorphology is the scientific study of landforms and landscapes. This course explores the basic principles of geomorphology, with an emphasis on Canadian landscapes, and prepares students for advanced studies in coastal, fluvial, and glacial geomorphology. A field trip will normally be offered.

Classes 2 hrs. and lab 2 hrs. a week. Some field work may be required.

Note: Students who are registered for this course or who have already received credit for this course may not register for GEOG 2325.1(2) or GEOL 2325.1(2).

3315.1(2) Ocean Use and Management (Group D)

Prerequisite: at least thirty (30) credit hours.

A geographical study of the present and future uses of the oceans. Examination of the development and spread of new and traditional oceanic uses will focus attention on management issues. Course will include mineral and energy exploitation, fish production, fish "ranching" and mariculture, shipping, recreational uses, military uses, and ocean dumping. Regional case studies will be used to illustrate evolving concepts of oceanic management, including the use of computerized information systems.

3321.1(2) Geography of Manufacturing (Group A)

Prerequisite: GEOG 2214.1(2).

The course concerns the identification of key factors, and a discussion of their influence, in the geographical distribution and location of manufacturing industries. Both location theory and case studies are used to analyze the location of these industries. Examples include iron and steel, motor vehicles, and oil refining.

3326.1(2) Statistical Methods for Geographers (Group C)

Prerequisite: GEOG 2213.1(2) or 2214.1(2).

This course introduces students to methods and problems in the collection, description, and analysis of geographic data. Included are descriptive and inferential statistics for spatial data, regression and correlation, analysis of patterns, and use of statistical package programs.

Classes 2 hrs. and lab 2 hrs. a week.

3329.1(2) Cultural Ecology (Group A)

Prerequisite: GEOG 1204.1(2).

Introduction to the study of the relationship between people and their environment, ranging from hunting and gathering societies to the industrial revolution. The aim of the course is to examine nature-culture relationships in the contexts of specific environments with an emphasis on both the environments and the range of cultures involved.

3332.1(2) Geography of Transportation (Group A)

Prerequisite: GEOG 2214.1(2).

This course provides an overview of the geographic study of transportation. Topics for consideration include: the causes of movement, measurement of distance, the cost of transportation and its influence in economic geography, the analysis of transportation networks, and the modeling of transportation flows. All transport modes are considered but emphasis is placed on land and air transport.

3340.1(2) Geography of Nova Scotia (Group D)

Prerequisite: at least thirty (30) credit hours.

This course explores the geographical diversity of the province, with particular emphasis on interrelationships between physical and human patterns. A section on the physical environment is followed by a discussion of settlement, cultural patterns, and economic development. Current issues of resource development, industrial reorganization, environmental management, and land use planning are addressed.

3343.1(2) Weather and Climate (Group B)

Prerequisite: GEOG 2213.1(2).

An investigation of weather and climate systems on Earth across a wide range of spatial and temporal scales. Topics include: the atmosphere, energy balances, microclimates, regional weather, and global climate processes. The focus is on describing and explaining current weather and climates, but past Earth climates will also be examined.

3353.1(2) Nature and Development of Physical Geography (Group B)

Prerequisite: GEOG 2213.1(2).

This course surveys the important ideas and advances in the growth of the discipline of physical geography. Developments and major contributors to the fields of geomorphology, atmospheric studies, biogeography, and ocean studies will be considered. The objective of the course is to understand the current framework and nature of physical geography by investigating the historical context of the subject.

3356.1(2) Remote Sensing of the Environment (Group C)

Prerequisite: GEOG 2316.1(2) and 2336.1(2).

This course is a study of the acquisition, storage, manipulation, analysis, interpretation, and applications of remotely sensed digital imagery. A range of sensors and spatial scales of imagery are introduced. Image interpretation and processing skills are developed using current image processing software.

Classes 2 hrs. and lab 2 hrs. a week.

3360.1(2) Geography of Japan (Group D)

Prerequisite: at least thirty (30) credit hours.

This course stresses relationships between Japan's diverse physical environments and patterns of human occupation and land use. A section on the physical setting is followed by discussion of rural settlement, cultural patterns, urban development, and industrial geography. Current issues of land use planning and environmental management are addressed.

3366.1(2) Field Techniques and Research Methods (Group C)

Prerequisite: GEOG 2213.1(2) or 2214.1(2).

Addresses questions in the design and conduct of geographic research, including field techniques. Topics include: formulating a research plan, developing hypotheses, locating and measuring field phenomena, sampling designs, levelling techniques, questionnaires, and presenting results. Students will be expected to attend sessions in the field outside regular classes and labs.

Classes 2 hrs. and lab 2 hrs. a week.

3380.1(2) Geography of China (Group D)

Prerequisite: at least thirty (30) credit hours.

An analysis of the physical, social, cultural and economic characteristics and problems of the region. Consideration will be given to external and internal relationships of the region and to the problems of and prospects for the region's economic development.

3386.1(2) [5686.1(2)] Concepts in Geographical Information Systems (GIS) (Group C)

Prerequisite: GEOG 2336.1(2).

This course provides an introduction to geographic information systems (GIS). Consideration is given to GIS data structure, data input, quality, storage and editing, GIS analysis functions and an introduction to the implementation of a GIS. Although the course has a strong technical component, the central underlying theme is using GIS to improve decision making in natural, human and management sciences.

Classes 2 hrs. and lab 2 hrs. a week.

3454.1(2) Bay of Fundy: Environments and Issues (Group D)

Prerequisite: GEOG 2213.1(2) or 2214.1(2).

This interdisciplinary course examines physical, biological and human environments, processes and issues in the Bay of Fundy region from both a historical and a contemporary view. Topics include physical and biological processes such as tides and biological productivity, ecosystems such as tidal flats and salt marshes, settlement patterns, and resource use. Emphasis is placed on current issues and solutions.

Classes 2 hrs. and seminar 2 hrs. a week.

4394.1(2) Geography of Maritime Transportation (Group A)

Prerequisite: GEOG 3332.1(.2).

The course considers the spatial dynamics of world maritime transport. Topics include: theories of trade, shipping's contributions to world trade, the world merchant marine, changing time-space relationships with increasing ship size and specialization, containerization and intermodality, locational characteristics of ports, hinterland penetration and foreland development, port development and competition.

4406.1(2) Seminar in Theoretical Geography (Group D)

Prerequisite: Registered major or honours students in Geography, or Geology/Geography combined program, with at least 60 university credit hours.

Students will be made familiar with major advances in theoretical and philosophical aspects of geography.

4407.1(2) and 4467.0 Directed Study (Group D)**4413.1(2) [5653.1(2)] Coastal Geomorphology (Group B) [GEOL 4476.1(2)]**

Prerequisite: GEOG 3313.1(.2) [GEOL 3373.1(.2)] or GEOL 2325.1(.2) [GEOG 2325.1(.2)].

This course discusses both the physical processes that operate in the coastal zone and the resulting landforms. The actions of waves, tides, currents, sea level changes, wind, and humans in the formation of coastal features are considered. Additional topics include the long-term development and classification of coasts.

Classes 2 hrs. and lab 2 hrs. a week. Some field work may be required.

4414.1(2) [5614.1(2)] Integrated Coastal Zone Management (Group D)

Prerequisite: GEOG 2336.1(.2) and either GEOG 2304.1(.2) or 3315.1(.2).

Spatial approaches to the integrated planning and management of the coastal zone within a sustainable development framework will be discussed and analyzed using case studies from intensively developed coastal zones in Europe, the Mediterranean, Southeast Asia, and North America. Emphasis will be placed on the use of geographical information systems as management and planning tools.

Classes 2 hrs. and 2 hrs. lab or field work a week.

4416.1(2) Seminar in Applied Geography (Group D)

Prerequisite: Registered major or honours students in Geography, or Geology/Geography combined program, with at least 60 university credit hours.

Role of the geographer and geographical studies in fields such as environmental, regional and urban planning; resource management; mapping and surveys; and marketing.

4423.1(2) [5623.1(2)] Glacial Geomorphology (Group B)

[GEOL 4475.1(2)]

Prerequisite: GEOG 3313.1(.2) [GEOL 3373.1(.2)] or GEOL 2325.1(.2) [GEOG 2325.1(.2)].

The study of geomorphological processes and landforms in glaciated environments. Emphasis will be placed on descriptions and explanations of glacial processes and glacial landform development. Glacial history will form a minor component of the course.

Classes 2 hrs. and lab 2 hrs. a week.

4424.1(2) Cross-listed as ENVS 4450.1(2) Natural Resource Management (Group D)

Prerequisite: GEOG 2304.1(.2) or ENVS 2300.0 and one of MATH 1207.1(.2) or GEOG 3326.1(.2) or BIOL 2308.1(.2).

4432.1(2) [5632.1(2)] Social Geography of the City (Group A)

Prerequisite: GEOG 2312.1(.2).

Examines the location of residential areas in cities, and the differentiation and segregation of those areas by income, occupation, race, ethnic status, and religion. Emphasis is placed on the historical evolution of social patterns, on the link between social areas and the physical fabric of the city, on competition between groups for amenity locations and facilities, and on the conflicts over noxious facilities.

4433.1(2) [5633.1(2)] Fluvial Geomorphology (Group B)

Prerequisite: GEOG 3313.1(.2) [GEOL 3373.1(.2)] or GEOL 2325.1(.2) [GEOG 2325.1(.2)].

This course examines processes and landforms associated with rivers. Topics include channel processes and morphology, sedimentology and depositional environments. Case studies of human impacts on river systems are also presented.

Classes 2 hrs. and lab 2 hrs. a week.

4436.1(2) [5636.1(2)] Advanced Remote Sensing (Group C)

Prerequisite: GEOG 3326.1(.2) and 3356.1(.2).

A course in advanced topics in remote sensing building upon the basic concepts and image processing skills learned in GEOG 3356.1(.2). At the advanced level, remote sensing involves more numerical processing and statistical analysis, and greater understanding of physical principles of remote earth observation. Recent studies in remote sensing will be examined and discussed critically. Students will develop projects based on their background and interests using remote sensing for applied studies.

Classes 2 hrs. and lab 2 hrs. a week.

4439.1(.2) [5639.1(.2)] Urban Historical Geography (Group A)

Prerequisite: six (6) Group A Geography credit hours at the 2000 or 3000 level.

The geography of the city (its morphology and function) is employed as an indication of the landscape impression produced by various historical periods (conceived as cultures) during the evolution of urban forms in Europe and North America. Examples are taken in historical sequence from Greek to Industrial times.

4442.1(.2) [5642.1(.2)] Urban Planning (Group A)

Prerequisite: GEOG 2312.1(.2).

Examines the physical and environmental planning of urban areas, with special reference to current practice in Nova Scotia. Topics include the emergence of modern town planning, the Planning Act, planning process, structure plans, general and partial urban allocation models, municipal plans, zoning, subdivision control, site planning, urban renewal, and new towns. The costs and benefits of planning are appraised.

4443.1(.2) [5643.1(.2)] Natural Hazards (Group B)

Prerequisite: GEOG 2213.1(.2) and at least 6 credits hours in GEOG courses at 3000 level or above.

This course considers natural hazards as a part of human-environment relations characterized by changing geographical patterns. Earthquakes, volcanic eruptions, landslides, severe weather, floods, coastal hazards, extraterrestrial body impacts are analyzed in a multi-scale perspective, along with their functional relationships. The human impact of natural hazards is discussed, with an emphasis on environmental perception, public awareness and action. Possibilities of forecasting are examined, as well as risk assessment and mitigation strategies.

4444.1(.2) Cross-listed as ENV 4460.1(.2) Methods of Environmental and Natural Resource Analysis (Group D)

Prerequisite: GEOG 2304.1(.2) or ENVS 2300.0 and one of MATH 1207.1(.2) or GEOG 3326.1(.2) or BIOL 2308.1(.2) and either MATH 1210.1(.2) or CPSC 1226.1(.2).

4449.1(.2) Tourist Geographies (Group A)

Prerequisite: GEOG 2339.0.

The course is concerned with the meanings of tourist places. "Meaning" refers to the symbolic, historic, or natural significance of the geographies involved in attracting people to some places rather than others. The course examples range from theme parks like Disneyland to world heritage sites like Lunenburg. As many examples as possible are taken from Nova Scotia areas.

4452.1(.2) [5652.1(.2)] The Geography of Urban Transportation (Group A)

Prerequisite: GEOG 3332.1(.2).

This course focuses on patterns and processes of movement within cities. Topics for consideration include: the role of transportation in shaping urban form, transportation problems in cities today, the urban transportation planning process, patterns of public transit and automobile use,

environmental impacts of urban transportation, the communications-transportation trade-off.

4465.1(.2) Cross-listed as GEOL 4465.1(.2) Advanced Sedimentology (Group B)

Prerequisite: GEOL 2325.1(.2) [GEOG 2325.1(.2)] and GEOL 3326.1(.2).

4496.1(.2) [5696.1(.2)] Applications in Geographical Information Systems (Group C)

Prerequisite: GEOG 3386.1(.2).

This course allows students to develop further their understanding of GIS and its applications. The course allows students to further develop their understanding of GIS and its applications. This course is project-oriented, focusing on the use of geographic information systems (GIS) to address practical problems in areas such as resource management, marketing, regional planning, natural hazards and geomorphology. Students will undertake a major research project using various GIS analytical functions, and develop skills relating to data creation, manipulation, quality assessment and presentation.

Classes 2 hrs. and lab 2 hrs. a week.

4526.0 Honours Research Project (Group D)

Prerequisite: Honours standing in geography.

Honours students will be assigned to a research advisor who will guide the student in the formulation of the research proposal, the methodology to be followed during the course of the research and in the analysis and write-up of the research findings.

Although the Department of Geography does not offer a graduate program, a number of graduate level courses are available. These are:

- GEOG 5614.1(.2) Integrated Coastal Zone Management
- GEOG 5623.1(.2) Glacial Geomorphology
- GEOG 5632.1(.2) Social Geography of the City
- GEOG 5633.1(.2) Fluvial Geomorphology
- GEOG 5636.1(.2) Advanced Remote Sensing
- GEOG 5639.1(.2) Urban Historical Geography
- GEOG 5642.1(.2) Urban Planning
- GEOG 5643.1(.2) Natural Hazards
- GEOG 5652.1(.2) The Geography of Urban Transportation
- GEOG 5653.1(.2) Coastal Geomorphology
- GEOG 5686.1(.2) Concepts in GIS
- GEOG 5696.1(.2) Applications in GIS
- GEOG 6602.0 Directed Studies in Urban/Regional Geography
- GEOG 6603.0 Directed Studies in Environmental Geography
- GEOG 6604.0 Directed Studies in Marine Geography
- GEOG 6605.0 Directed Studies (General)
- GEOG 6612.1(.2) Directed Studies in Urban/Regional Geography
- GEOG 6613.1(.2) Directed Studies in Environmental Geography
- GEOG 6615.1(.2) Directed Studies (General)
- GEOG 6624.1(.2) Directed Studies in Marine Geography

For further information, please consult the Chairperson of the Department of Geography.

Geology (GEOL)

Chairperson, Professor	V. Owen
Professors	J. Dostal, G. Pe-Piper
Associate Professors	P. Jutras
Assistant Professors	A. MacRae
Adjunct Professors	D. Kontak, M. Parsons, D. Piper

We are directly dependent on the Earth for our survival. Geology is the study of the Earth, its materials, the processes that affect its surface and interior, and the history of change that it has undergone. For students enrolled in the degree of Bachelor of Science with a concentration, major, or Honours in geology, the department offers a full program of courses. Many of these courses may also be taken by students majoring in other science subjects. A combined geology/geography program emphasizes environmental aspects of geology and a program combining geology and business studies emphasize the economic aspects of the Earth. In addition, a number of courses are offered for non-science students, emphasizing global aspects of geology, Earth history, and the interactions between the Earth and human society.

Science students interested in geology, including those who -are entering the double majors and Honours programs in geology, should take GEOL 1214.1(.2) and GEOL 1215.1(.2) (previously GEOL 200.0). This course provides a broad survey of the discipline, with practical experience provided through labs and field trips. Courses in mineralogy (GEOL 2301.1, GEOL 2302.2) and the history of life and sedimentary environments [GEOL 2323.1(.2) and GEOL 2325.1(.2)] are also recommended as supporting science subjects for students majoring in other sciences.

GEOL 1202.1(.2), GEOL 1203.1(.2) and GEOL 1208.1(.2) are designed chiefly for students in Commerce and Arts, including Atlantic Canada Studies. In exceptional cases where a student has taken GEOL 1202.1(.2) and GEOL 1203.1(.2) (previously GEOL 204.0) with high standing, those courses may, with the permission of the Department, be accepted in the geology major or Honours program in lieu of GEOL 1214.1(.2) and GEOL 1215.1(.2).

Students in the major and Honours programs should seek the advice of the Department as to their elective and supporting courses. Year 4 students are encouraged to participate in the research projects being carried out in the Department. Under special circumstances, some prerequisites for 3000 and 4000-level courses may be waived with the permission of the Department.

The Geoscience Profession Act was proclaimed in Nova Scotia in March 2003. This Act requires that one be a member in good standing of The Association of Professional Geoscientists of Nova Scotia (or another provincial counterpart) in order to work in geoscience-related fields in this province. Consequently, when choosing Science electives to fulfill Faculty of Science regulation 6(e), Geology major and honours students

should consult APGNS guidelines. Current APGNS guidelines can be obtained from the Geology chairperson.

1. Geology Major

The courses of the core program for a student majoring in geology are:

GEOL 1214.1(.2) Introduction to Geology: Earth Materials
 GEOL 1215.1(.2) Introduction to Geology: Earth Processes
 GEOL 2301.1(.2) Mineralogy
 GEOL 2302.1(.2) Optical Mineralogy
 GEOL 2325.1(.2) Sedimentology
 GEOL 3312.1(.2) Igneous Petrology
 GEOL 3313.1(.2) Metamorphic Petrology
 GEOL 3326.1(.2) Sedimentary Petrology and Stratigraphy
 GEOL 3413.1(.2) Structural Geology

At least two of:

GEOL 4441.1(.2) Mineral Resources
 GEOL 4442.1(.2) Economic Mineral Deposits
 GEOL 4466.1(.2) Petroleum Geology

Students are required to take at least nine (9) credit hours in geology for a minimum total of forty-two (42) credit hours in the

Department. It is strongly recommended that all geology major and Honours students take GEOL 3300.1(.2) Field Methods.

The following first and second year course selections are recommended for students in the major and Honours programs in geology:

Year 1

1. GEOL 1214.1(.2) and GEOL 1215.1(.2)
2. MATH requirement (see Faculty of Science regulations, Section 3 of this *Academic Calendar*)
3. non-geology science elective [six (6) credit hours]
4. ENGL 205.1(.2) and three (3) credit hours in humanities
5. non-science elective [six (6) credit hours]

Year 2

1. GEOL 2301.1(.2) and 2302.1(.2) [six (6) credit hours]
2. GEOL 2325.1(.2) [three (3) credit hours]
3. GEOL 3300.1(.2)* [three (3) credit hours]
4. 3000 or 4000 level geology course with lab [six (6) credit hours]
5. non-geology science elective [six (6) credit hours]
6. non-science elective [six (6) credit hours]

*GEOL 3300.1(.2) may also be taken in a later year of the program

For subsequent years, students should consult the Departmental Chairperson.

2. Geology Honours

The Honours program requires GEOL 4550.0 in addition to the core courses for majors, supplemented by sufficient geology courses for a minimum of sixty (60) credit hours.

3. Double Major and Honours

Students may pursue a double major in geology and another science subject, as outlined in Section 3 of this *Calendar*.

Students taking a double major are required to take at least thirty-six (36) credit hours in geology from the following list:

GEOL 1214.1(.2) and GEOL 1215.1(.2) Introduction to Earth Science
 GEOL 2301.1(.2) Mineralogy
 GEOL 2302.1(.2) Optical Mineralogy
 GEOL 2305.1(.2) Geophysics
 GEOL 2325.1(.2)*Sedimentology or GEOL 3373.1 (.2)
 GEOL 2350.1(.2) Environmental Geoscience Issues
 GEOL 3312.1(.2) Igneous Petrology
 GEOL 3313.1(.2) Metamorphic Petrology
 GEOL 3323.1(.2) Palaeontology: History of Life
 GEOL 3326.1(.2) Sedimentary Petrology and Stratigraphy
 GEOL 3340.1(.2) Surface and Groundwater Hydrology
 GEOL 3413.1(.2) Structural Geology
 GEOL 3454.1(.2) Applied Geochemistry
 GEOL 4414.1(.2) Tectonics
 GEOL 4441.1(.2) Mineral Resources
 GEOL 4442.1(.2) Economic Mineral Deposits
 GEOL 4453.1(.2) Principles of Geochemistry
 GEOL 4466.1(.2) Petroleum Geology
 GEOL 4475.1(.2) Glacial Geomorphology

***Note:** GEOL 2325.1 (.2) [cross-listed as GEOG 2325.1 (.2)] or GEOL 3373.1 (.2) [cross-listed as GEOG 3313.1 (.2)] cannot both be taken for credit.

4. Geology/Geography Combined Programs

a. Geology/Geography Major Program (Bachelor of Science)

- i. At least thirty-six (36) credit hours from the list of geology courses under 'Double Major and Honours', above.
- ii. At least thirty-six (36) geography credit hours including:
 GEOG 1203.1(.2) Physical Geography: Global Patterns
 GEOG 1204.1(.2) Demographics and Culture
 GEOG 2213.1(.2) Physical Geography: Local and Regional Patterns
 GEOG 2325.1(.2)*Sedimentology
 GEOG 2316.1(.2) Map and Air Photo Interpretation
 GEOG 2336.1(.2) Principles of Cartography
 GEOG 3313.1(.2)*Geomorphology

At least twelve (12) credit hours from:

GEOG 2305.1(.2) The Oceans: A Physical Geography
 GEOG 2333.1(.2) Biogeography
 GEOG 3343.1(.2) Weather and Climate
 GEOG 4413.1(.2) Coastal Geomorphology
 GEOG 4423.1(.2) Glacial Geomorphology
 GEOG 4433.1(.2) Fluvial Geomorphology
 GEOG 4443.1(.2) Natural Hazards
 Six (6) additional credit hours in geography from Group B or C courses.

***Note:** GEOG 2325.1 (.2) [cross-listed as GEOL 2325.1 (.2)] or GEOG 3313.1 (.2) [cross-listed as GEOL 3373.1 (.2)] cannot both be taken for credit.

b. Geology/Geography Honours Program (Bachelor of Science: Honours)

In addition to the above requirements, Honours students must complete:

- i. GEOL 4550.0 Honours Project or GEOG 4526.0 Honours Research Project;
- ii. six (6) additional credit hours in geology from the list of geology courses under "Double Major and Honours" above; and
- iii. GEOG 4406.1(.2) Seminar in Theoretical Geography and GEOG 4416.1(.2) Seminar in Applied Geography.

In the Honours Bachelor of Science geology/geography program, topics for Honours projects should be approved by both Departments and may be carried out in either Department.

5. Geology/Business Studies Combined Programs

The Department of Geology and the Faculty of Commerce offer a double major/Honours science degree combining a major/Honours program in geology with a major program of business studies in the Faculty of Commerce.

This program offers Bachelor of Science major and Bachelor of Science Honours degrees, under the general requirements of the Faculty of Science. For a combined major degree, students will be required to take a minimum of forty-two (42) credit hours in the Faculty of Commerce in addition to at least thirty-six (36) credit hours in geology. In the Honours program, a thesis on a field interrelating the two disciplines will be required. Students enrolled in the combined geology/business studies major/Honours may also pursue a co-op option in this dual program. The program appeals to geology students with an interest in the business-related aspects of their major. The geology/business studies major program requires a minimum grade of C in all geology and commerce courses while the geology/business studies Honours program requires (a) a minimum grade of C in all geology and commerce courses; and (b) a minimum quality point average of 3.00 in these same courses.

The following courses are required for the Geology/Business Studies Major (B.Sc.)

a. Commerce Faculty Requirements [total of forty-two (42) credit hours]

ACCT 2241.1(.2) Introductory Accounting I
 ACCT 2242.1(.2) Introductory Accounting II
 ACCT 3332.1(.2) Planning and Control
 CMLW 2201.1(.2) Legal Aspects of Business – Part I
 COMM 2293.1(.2) Managerial Communications
 ECON 1201.1(.2) Principles of Economics: Micro
 ECON 1202.1(.2) Principles of Economics: Macro
 FINA 2360.1(.2) Business Finance I

FINA 3361.1(.2) Business Finance II
 MGMT 1281.1(.2) Introduction to Business Management
 MGMT 3383.1(.2) Organizational Behaviour I
 MGMT 3384.1(.2) Organizational Behaviour II
 MGMT 4489.1(.2) Strategic Management
 MKTG 2270.1(.2) Introduction to Marketing

b. Geology Requirements [at least thirty-six (36) credit hours]

GEOL 1214.1(.2) and 1215.1(.2) Introduction to Earth Science
 GEOL 1208.1(.2) Environmental Geology
 GEOL 2301.1(.2) Mineralogy
 GEOL 2305.1(.2) Geophysics
 GEOL 2325.1(.2) Sedimentology
 GEOL 2350.1(.2) Environmental Geoscience Issues
 GEOL 3300.1(.2) Field Methods
 GEOL 3312.1(.2) Igneous Petrology
 GEOL 3323.1(.2) Palaeontology: History of Life
 GEOL 3340.1(.2) Surface and Groundwater Hydrology
 GEOL 3373.1(.2) Geomorphology
 GEOL 3413.1(.2) Structural Geology
 GEOL 3454.1(.2) Applied Geochemistry
 GEOL 4414.1(.2) Tectonics
 GEOL 4441.1(.2) Mineral Resources
 GEOL 4442.1(.2) Economic Mineral Deposits
 GEOL 4453.1(.2) Principles of Geochemistry
 GEOL 4466.1(.2) Petroleum Geology

c. Other Requirements

- i. ENGL 1205.1(.2) and three (3) credit hours in humanities.
- ii. MATH requirement (see Faculty of Science regulations, Section 3 of this *Academic Calendar*).
- iii. twelve (12) credit hours in science other than Geology, e.g., Biology, Psychology, Chemistry, Physics, and Mathematics excluding MATH 2207.1(.2), and BIOL 3308.1(.2).
- iv. three (3) credit hours in statistics that covers probability theory including MATH 2207.1(.2), MGSC 2207.1(.2), GEOG 3326.1(.2), BIOL 3308.1(.2) and ECON 3303.1(.2).
- v. six (6) credit hours from Faculty of Arts' offering including GEOG 3326.1(.2) and ECON 3303.1(.2).
- vi. nine (9) credit hours in electives from any faculty.

Notes: (i) Students must take FINA 2361.1(.2), MKTG 2270.1(.2) and MGMT 3384.1(.2) before registering for MGMT 4489.1(.2). The other prerequisites for this course are waived for students in this combined program.
 (ii) Students must register no later than the beginning of Year 2 in the science program and will be under the general requirements of the Faculty of Science.

In addition to the above requirements, Geology/Business Studies Honours students must complete GEOL 4550.0 Honours Project as one of the Geology requirements.

6. Cooperative Education Programs

a. Co-operative Education in Geology

This program, which is available at both the major and Honours level, integrates on-the-job experience and academic studies. Upon completion of one of the Co-operative Education programs, the student receives the Bachelor of Science degree in geology, at the major or Honours level, with the added qualification of "Co-operative Education".

Further details and regulations on the Faculty of Science Co-operative Education program are found in Section 3 of this *Calendar*.

b. Combined Co-operative Education in Geology/Geography

The students enrolled in the combined geology/geography major/Honours may also pursue a Co-op option in this dual program. Application to and completion of this combined option is the same as those for other Science Co-op major programs.

Further details and regulations on the Faculty of Science Co-operative Education program are found in Section 3 of this *Calendar*.

c. Combined Co-operative Education Program in General Business Studies/Geology

The students enrolled in the combined geology/business studies major/Honours programs may pursue a Co-op option in these dual programs. Applications to and completion of this combined option is the same as those for other Science Co-op major/Honours programs.

7. Minor in Geology

It is possible to combine a minor in Geology with a major in another discipline within or outside the Faculty of Science. A minor in Geology requires thirty (30) credit hours, including GEOL 1202.1(.2) or GEOL 1214.1(.2) or GEOL 1215.1(.2); no more than twelve (12) credit hours below the 2000-level can be counted toward the minor in Geology.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, GEOL 1202.1(.2) was formerly GEO 202.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
GEO 200	GEOL 1214	GEO 340	GEOL 3340
New Course	GEOL 1215	GEO 350	GEOL 2350
GEO 202	GEOL 1202	GEO 373	GEOL 3373
GEO 203	GEOL 1203	GEO 400	GEOL 4400
GEO 206	GEOL 1206	GEO 413	GEOL 3413
GEO 207	GEOL 1207	GEO 414	GEOL 4414
GEO 208	GEOL 1208	GEO 429	GEOL 4429
GEO 210	GEOL 1210	GEO 441	GEOL 3441
GEO 300	GEOL 3300	GEO 442	GEOL 4442
GEO 301	GEOL 2301	GEO 450	GEOL 4450
GEO 302	GEOL 2302	GEO 451	GEOL 4451
GEO 305	GEOL 2305	GEO 453	GEOL 3453
GEO 312	GEOL 3312	GEO 454	GEOL 3454
GEO 313	GEOL 3313	GEO 465	GEOL 4465
GEO 323	GEOL 3323	GEO 466	GEOL 4466
GEO 325	GEOL 3325	GEO 475	GEOL 4475
GEO 326	GEOL 3326	GEO 476	GEOL 4476
GEO 330	GEOL 3330	GEO 518	GEOL 4518
GEO 332	GEOL 3332	GEO 530	GEOL 4530
GEO 333	GEOL 3333	GEO 540	GEOL 4540
GEO 335	GEOL 2335	GEO 550	GEOL 4550
		GEO 565	GEOL 4565

1202.1.(2) Planet Earth: Atlantic Canada Perspective

Why is the Atlantic Ocean getting wider? Where in Atlantic Canada are there remnants of huge volcanic explosions and lava flows? How did a fault as big as the San Andreas cut through Nova Scotia? This course will provide an understanding of the Earth and the processes which affect it, using examples drawn from the geology of our region. You will study plate tectonics, learn to recognize and interpret Earth materials, and understand their impact on Atlantic Canada. Sections of this course may be offered via world-wide web. This course is intended mainly for non-science students including those in Atlantic Canada Studies.

1203.1.(2) Earth History: Atlantic Canada Perspective

What was the origin of the Earth and when did life develop? When did dinosaurs and other fossil groups appear in our region, and how did they disappear? How have ancient deserts, rivers, oceans, and ice ages influenced our landscape? You will trace four billion years of Earth history using examples from the rock and fossil record of Atlantic Canada. Sections of this course may be offered via world-wide web. This course is intended mainly for non-science students including those in Atlantic Canada Studies.

1206.1.(2) Global Change

This course examines global changes in the Earth's crust, oceans, biota and atmosphere caused by natural processes and human activity. Topics covered include the reconstruction of ancient environments, some of which were dramatically changed by meteorite impacts, volcanic activity and glaciation, and the evaluation of accelerating environmental change caused by phenomena such as ozone depletion and greenhouse gas emissions.

1207.1.(2) Environment, Radiation and Society

Radioactivity has an impact on our society and environment. Radiation given off during the process of radioactive decay is harmful, but is accompanied by the release of energy that can be harvested. The course reviews radioactive decay and explores geological sources of radiation, uranium deposits and mining, economics of nuclear power and the geological aspects of radioactive waste disposal. The course will foster an understanding of issues that surround the use of nuclear technology in our society.

1208.1.(2) Environmental Geology: Atlantic Canada Perspective

This course examines geological principles that lie behind environmental problems facing society. Topics considered may include geological hazards such as volcanoes, earthquakes, slope instability, and pollution and waste disposal, as well as energy and mineral resources, and the quality of water. The course will include examples of environmental geology in the Atlantic Provinces.

1210.1.(2) Dinosaurs and Their World

This course focuses on dinosaurs and the world in which they flourished for 135 million years, up to the time of their (near) extinction. Spectacular and sometimes controversial evidence indicates how dinosaurs and other creatures lived, died, and were preserved as fossils over geological time. Nova Scotian dinosaur localities will receive special attention in the class.

1214.1.(2) Introduction to Geology: Earth Materials

Everything that is known about the history of the solid Earth has been determined from studying rocks and minerals. This course introduces the student to major types of rocks and minerals, how they are described, classified and interpreted, and how their age can be determined. Gemstones, fossils and other Earth materials will also be described. Note: students cannot earn credit for GEOL 1214.1.(2) if they have already earned credit for GEOL 200.0, this course's precursor.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

1215.1.(2) Introduction to Geology: Earth Processes

The study of the Earth as a dynamic and evolving planet. Plate tectonics, its precursors, and its applicability to the early history of our planet and to neighbouring terrestrial planets in our solar system. Surface processes will also be considered. Emphasis is placed on describing Earth processes using geological examples from Atlantic Canada. Note: students cannot earn credit for GEOL 1215.1.(2) if they have already earned credit for GEOL 200.0, this course's precursor.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2301.1(2) Mineralogy

Prerequisite: GEOL 1214.1(.2)

An introduction to a systematic study of the major mineral groups, including their crystal structure, chemical composition, physical properties, identification and practical use.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2302.1(2) Optical Mineralogy

Prerequisite: GEOL 2301.1(.2) or permission of Department.

Optical properties of minerals. Determinative mineralogy with emphasis on the optical methods of mineral identification. Petrography of the more common rocks.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2305.1(2) Geophysics

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2)

The physics of the Earth, including rotation, gravity, seismology and internal structure, magnetic and electrical properties, radioactivity, and the Earth's heat. Geophysical exploration of the Earth's crust, including seismic refraction, seismic reflection, magnetic, gravity and electrical methods.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2325.1(2) Sedimentology [GEOG 2325.1(.2)]

Prerequisite: GEOL 1214.1(.2) or 1215.1(.2) or GEOG 2213.1(.2).

Weathering and the origin of sedimentary materials. Introduction to sediments and sedimentary rocks. Processes of sedimentation and the origin of sedimentary structures. Interpretation of clastic and carbonate sedimentary rocks in the light of comparison with modern environments in non-marine, marginal marine and marine settings. Those who are registered for this course or who have already received credit for this course may not register for GEOG 3313.1(.2) [GEOL 3373.1(.2)] (Geomorphology).

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2332.1(2) Cross-listed as CHEM 2332.1(2) Introductory Analytical Chemistry: Wet Methods**2333.1(2) Cross-listed as CHEM 2333.1(2) Introductory Analytical Chemistry: Instrumental Methods****2335.1(2) Paleobotany**

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2) or BIOL 1200.0.

The course will trace the two billion year fossil record of plant evolution in the context of adaptation to Earth's changing geography and climate through geologic time. Particular attention will be paid to the development of terrestrial ecosystems in the Paleozoic and to the world class fossil sites of Nova Scotia, including the paleobotany of coal. Ontogeny and paleoecology will be linked as will taphonomy and paleoenvironments. Laboratories will acquaint the student with the taxonomy of fossil floras, their modes of preservation and practical problems in the interpretation of their record.

Classes 3 hrs. and lab 3 hrs. a week. Field trips. 1 semester.

2350.1(2) Environmental Geoscience Issues

Prerequisite: GEOL 1214.1(.2) or 1215.1(.2).

This course examines issues such as risk assessment and prediction of natural hazards (earthquakes, volcanoes, floods); pathways and sinks of pollutants in surface and groundwater; the environmental implications of global change, industrial planning and environmental impacts; geological criteria in the environmental assessment process; the roles of monitoring historical assessment and modelling in environmental problems.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3300.1(2) Field Methods

Prerequisites: GEOL 1214.1(.2), 1215.1(.2), 2325.1(.2), and attendance at Field Camp, held prior to the semester, or permission of instructor.

This course introduces the student to basic field techniques used by geologists. Field observations and measurements collected during a one week field camp and during the course are summarized by the student as a series of reports.

Classes 3 hrs. a week plus field work. 1 semester.

3312.1(2) Igneous Petrology

Prerequisite: GEOL 2302.1(.2).

This course emphasises the mineralogical and chemical characteristics of igneous rocks, and their classification, petrography, and tectonic setting. The processes responsible for the evolution of diverse igneous rock associations are also considered. Laboratory work involves the study of igneous rocks in hand sample and thin section.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3313.1(2) Metamorphic Petrology

Prerequisite: GEOL 2302.1(.2).

This course introduces aspects of the description and interpretation of metamorphic rocks by citing the effects of the progressive metamorphism of mafic, pelitic and carbonate rocks. Other topics include the use of composition-assemblage diagrams, methods of quantitative geothermobarometry, and the interpretation of pressure-temperature-time trajectories for metamorphic rocks. Laboratory work involves the study of metamorphic rocks in hand sample and thin section.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3323.1(2) Palaeontology: History of Life

Prerequisite: one of GEOL 1214.1(.2) or 1215.1(.2), GEOL 1202.1(.2), 1208.1(.2); or BIOL 201.1(.2) and 202.1(.2); or GEOG 2213.1(.2).

An account of the 3800 million-year history of life on Earth, including theories of the origin of life, and modes of preservation of organisms as fossils, and the practical use of fossils for geological age, paleogeographic, and paleoenvironment determinations. The course covers the expression of biological evolution in the fossil record, and the major patterns and crises in the history of life, such as mass extinctions. Although the main focus is on the paleontology of invertebrate macrofossils, there will be some coverage of fossil plants, vertebrates, and microfossils.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3326.1(2) Sedimentary Petrology and Stratigraphy

Prerequisite: GEOL 2302.1(.2) and 2325.1(.2) (which may be taken concurrently).

Composition, provenance, and diagenesis of clastic sedimentary rocks, including conglomerates, sandstones and shales. Components and diagenesis of the main classes of non-clastic sedimentary rocks including carbonates, evaporites, siliceous and iron-rich sediments. Stratigraphy: correlation and the definition of stratigraphic units in outcrop and in the subsurface. Unconformities, sequences, sea-level change, and the interpretation of the stratigraphic record.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3330.1(2) Introduction to Micropalaeontology

Prerequisite: GEOL 3323.1(.2).

Techniques for the collection, preparation and identification of microfossils. Major groups of microfossils and their industrial use, especially in the petroleum industry.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3340.1(2) Surface and Groundwater Hydrology

Prerequisite: one of GEOL 1214.1(.2) or 1215.1(.2), 1202.1(.2), 1208.1(.2); or GEOG 2213.1(.2).

The course examines the fundamentals of hydrology, including the precipitation, infiltration and storage of water. It emphasizes practical approaches to the examination of water supply, the movement of groundwater through various geological materials, groundwater exploration, contaminant modelling and water resource management.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

**3373.1(2) Cross-listed as GEOG 3313.1(2)]
Geomorphology.**

Prerequisite: GEOL 1214.1(.2) or 1215.1(.2) or GEOG 2213.1(.2).

The study of geomorphological processes and related landforms, with an emphasis on fluvial activity. Processes of weathering, soil formation, slope development and river action will be discussed. Laboratory work will include methods of field and data interpretation, soil analysis, sediment analysis and geomorphological mapping.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester. Some field work may be required.

Note: Students who are registered for this course or who have already received credit for this course may not register or receive credit for GEOL 2325, 1 (.2) or GEOG 2325.1 (.2).

3413.1(2) Structural Geology

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2)

Structures produced by deformation in the Earth's crust, including fabrics, folds, faults, and shear zones. Geometric, kinematic, and dynamic analysis of structures. Use of geometric and stereographic projection techniques in the interpretation of geological structures and geological maps. Introduction to stress and strain. Structures characteristic of selected tectonic environments, including rifts, thrust belts, and zones of strike-slip movement.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3453.1(2) Principles of Geochemistry

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2).

Principles of distribution of elements in the solar system, in rocks, and in minerals. Chemical processes of geological importance. Chemical interpretation of geological processes in aqueous environments, diagenesis, igneous and metamorphic rocks.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

3454.1(2) Applied Geochemistry

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2).

The application of geochemistry to prospecting for minerals and oil fields; methods of sampling and analysis; statistical evaluation of geochemical data; cycling of geochemical species in the environment; environmental geochemistry.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4400.0 International Field Camp

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2), GEOL 2301.1(.2), 2325.1(.2), 3300.1(.2), and permission of the Department.

Emphasis is placed on highlighting the geological heritage shared by Canada, USA and Mexico. In practical terms, this course will acquaint the student with modern methods of structural, stratigraphic, petrologic and/or geophysical analysis. After mastering these skills, students will undertake an independent mapping project. Students may be required to travel at their own expense to USA and Mexico.

4414.1(2) [GEO 6414.1(.2)] Tectonics

Prerequisite: GEOL 1214.1(.2) and 1215.1(.2); and at least one of GEOL 2325.1(.2), 3312.1(.2), or 3413.1(.2) (which may be taken concurrently).

This course describes the major features of the Earth and its place in the solar system. It introduces the evidence for plate tectonics, the analysis of plate movements, and the characteristic rock associations formed in different tectonic environments. Aspects of global change will be considered, including the evolution of tectonic processes through geologic time, changes in the atmosphere and oceans, and the importance of meteorite impacts.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4429.1(2) Cross-listed as BIOL 4429.1(2) Quaternary Palynology and the History of Vegetation

Students taking this course for a geology credit must have a credit for GEOL 1214.1(.2) and 1215.1(.2)

4441.1(2) Mineral Resources

Prerequisite: GEOL 1214.1(.2), 1215.1(.2) and 2301.1(.2)

A study of Earth's mineral resources, particularly metallic and some non-metallic mineral deposits, their classification, genesis and distribution in time and space. Important examples from Canada and abroad will be discussed. Topics will also include mineral exploration, mining, and the environmental impact of resource exploitation.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4442.1(2) [GEOL 6442.2(.2)] Economic Mineral Deposits

Prerequisite: GEOL 4441.1(.2).

The course examines the geology, mineralogy, economic geology and origin of major types of metallic and some non-metallic deposits in Canada and elsewhere. Laboratory includes investigation of suites of samples from the deposits.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4450.1(2) [GEOL 6450.1(.2)] Advanced Igneous Petrology

Prerequisite: GEOL 3312.1(.2).

Genesis of magmas, magma types, petrographic provinces and their distribution in time and space and their relations to their tectonic setting. Differentiation indices, variation diagrams, distribution trends of major and trace elements. Equilibrium and fractional crystallization in selected synthetic systems and their application to natural systems. Study of selected suites of igneous rocks.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4451.1(2) [GEOL 6451.1(.2)] Advanced Metamorphic Petrology

Prerequisite: GEOL 3313.1(.2).

The topics covered in this course include phase equilibria in metamorphic systems, reaction balancing methods, porphyroblast-matrix relations, and the quantification of pressure-temperature-time trajectories. Laboratory work is centered on the acquisition and manipulation of microprobe data.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4465.1(2) [GEOL 6465.1(.2)] Advanced Sedimentology [GEOG 4465.1(.2)]

Prerequisite: GEOL 2325.1(.2) or GEOG 2325.1(.2) and GEOL 3326.1(.2).

Dynamics of fluid flow and transport of sediment by air, water and ice. Analysis of modern sedimentary environments including terrestrial, lacustrine, marginal marine and marine systems. Analysis of ancient sedimentary facies and their environmental interpretation, with emphasis on clastic sediments.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4466.1(2) Petroleum Geology

Prerequisite: GEOL 1214.1(.2), 1215.1(.2), 2305.1(.2) and 2325.1(.2).

The origin, migration and accumulation of oil and natural gas. Types of oil bearing structures and basic principles in oil exploration.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4475.1(2) Cross-listed as GEOG 4423.1(2) Glacial Geomorphology

Prerequisite: GEOL 3373.1(2) or GEOG 3313.1(2).

4476.1(2) Cross-listed as GEOG 4413.1(2) Coastal Geomorphology**4518.1(2) Canadian Regional Tectonics**

Prerequisite: GEOL 3413.1(2).

This course is intended to synthesize the various aspects of geology treated in more specialized courses through an analysis of those processes which have shaped some of the major Canadian geological regions. We will examine the structure, stratigraphy and petrology of mountain belts (Cordillera, Appalachians), Precambrian shield (Grenville, Churchill, Superior), and sedimentary basins (East Coast shelf, Western Canada, Sverdrup) in order to determine what processes, including plate tectonic processes, created them.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4530.1(2) [GEOL 6530.1(2)] Directed Study in Geology

Prerequisite: restricted to Year 4 students in the Honours program or permission of Department.

Intended to supplement or provide an alternative to the regular geology courses in order to meet the special needs and interests of students. The course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

Classes 72 hrs. per semester; classes and labs.

4540.1(2) [GEOL 6540.1(2)] Special Topics in Geology

Prerequisite: restricted to Year 4 students in the Honours program or permission of Department.

Readings and discussions of current literature in geology on selected topics. Such topics as plate tectonics, geochemistry, statistics in geology, isotope geochemistry, petrogenesis, ore genesis, may be included.

Classes 72 hrs. per semester; classes and labs.

4550.0 Honours Project

Prerequisite: Honours standing and permission of Department.

Research project carried out under the supervision of one member of the Department or jointly by more than one faculty member. Originality of the research project is emphasized.

4565.1(2) [GEOL 6565.1(2)] Special Studies in Sedimentology

Prerequisite: GEOL 4465.1(2)

Detailed study of selected depositional environments and sedimentary facies. Analysis of sedimentary strata including Canadian examples. Quantitative methods of facies analysis and the application of statistical methods in sedimentology. Methods for the analysis of subsurface sedimentary and stratigraphic sequences. Areas of specific emphasis may vary from year to year.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.



Dr. Kevin Vessey, Dean of the Faculty of Graduate Studies and Research (far left) pauses for a photograph with graduate students Margaret McKee and James Grant. Both McKee and Grant are recipients of the Social Sciences and Humanities Research Council of Canada (SSHRC) Doctoral Fellowships valued at \$20,000 per annum for 24 months.

Global Business Management (GLBM)

This program is administered by the Department of Management.

Committee on Global Business Management

P. Fitzgerald, Coordinator	Management
T. Charles	Finance, Information Systems and Management Science
H. Das, J. Chamard	Management
A. Mukhopadhyay	Economics
H. Ogden	Marketing
J. Power	Accounting

Globalization has been a reality for Canadian businesses large and small for some time now. In order to survive, even small companies often have to compete directly with large international organizations. Most organizations are much more diverse than they were even a year or two ago. Many of our graduates will no doubt experience rewarding international placements and foreign travel as their careers develop. It will be unusual to work in firms without employees and clients who originate from different corners of the world. In order to develop synergy in this new business environment, it will be necessary to learn to work together, to communicate effectively, and to manage as a unit people coming from very different experiences, cultures, values, and expectations.

If managers wish to remain competitive, they must learn to adapt psychologically, to communicate effectively, and interact socially with other cultures. International managers are expected to speak more than one foreign language. The Bachelor of Commerce in Global Business Management offers the opportunity to study the skills essential for a successful international career.

Year 1

ECON 1201.1(.2) Principles of Economics: Micro
 ECON 1202.1(.2) Principles of Economics: Macro
 ENGL 1205.1(.2) Introduction to Literature
 MGMT 1281.1(.2) Introduction to Business Management
 MGSC 1205.1(.2) Quantitative Methods I
 MGSC 1206.1(.2) Quantitative Methods II
 CISY 1225.1(.2) Introduction to Computer Applications
 Language electives [six (6) credit hours] (Arabic, Chinese, French, German, Japanese, or Spanish) **Note:** Students are advised that they should take their language requirements as early as possible in their program so that later they will have increased flexibility in choosing their courses.
 Three (3) credit hours of non-Commerce electives

Year 2

ACCT 2241.1(.2) Introductory Financial Accounting
 ACCT 2242.1(.2) Introductory Managerial Accounting
 CMLW 2201.1(.2) Legal Aspects of Business – Part I
 COMM 2293.1(.2) Communications
 MGMT 2383.1(.2) Organizational Behavior Micro
 MGMT 2384.1(.2) Organizational Behavior Macro
 MKTG 2270.1(.2) Introduction to Marketing
 MGSC 2207.1(.2) Introductory Statistics

Economics electives [three (3) credit hours]
 Non-Commerce electives [three (3) credit hours]

Year 3

ACCT 3332.1(.2) Planning and Control
 ACCT 3357.1(.2) International Accounting
 FINA 2360.1(.2) Business Finance I
 FINA 3361.1(.2) Business Finance II
 MKTG 3375.1(.2) International Marketing
 MGMT 3480.1(.2) Ethical Responsibilities in Organizations
 Language electives [six (6) credit hours] (same language as Year 1 elective)
 Geographic electives [six (6) credit hours] [see note (a) below]

Year 4

FINA 4476.1(.2) International Financial Management
 MGMT 4488.1(.2) International Business Management
 MGMT 4489.1(.2) Strategic Management
 Geographic electives [six (6) credit hours] [see note (a) below]
 Cognate electives [six (6) credit hours] [see note (b) below]
 Free electives [nine (9) credit hours]

Notes: (a) Electives must be selected from the approved lists below for one of the following regions: Africa, Americas, Asia, or Europe.

(b) Electives must be selected from the geographic area lists or cognate elective list below. If ECON 3310.1(.2), ECON 3312.1(.2), ECON 3315.1(.2), ECON 3365.1(.2), ECON 4406.1(.2), ECON 4410.1(.2), ECON 4412.1(.2), ECON 4413.1(.2), or ECON 4414.1(.2) was used to satisfy the economics elective(s) in Year 2, the number of free electives is increased to twelve (12) to fifteen (15) credit hours as appropriate.

(c) In cases where a student is fluent in two languages, other courses relevant to the major may be substituted for the language credits with the approval of the Program Co-ordinator.

(d) Notwithstanding the course substitutions possible in notes (b) and (c), all students must complete at least twenty-four (24) credit hours of non-commerce electives.

Approved Electives Offered at Saint Mary's University* (Other courses may meet these requirements subject to the approval of the program co-ordinator.)

Africa

HIST 2316.1(.2) Africa in the 19th Century: Intrusion and Conquest
 HIST 2317.1(.2) Africa in the 20th Century: Colonialism and Independence
 HIST 2322.0 South Africa
 RELS 2323.1(.2) The Islamic Religious Tradition

Americas

ECON 3306.1(.2) North American Economic History
 ECON 4406.1(.2) Canadian Economic History in an International Context
 HIST 1255.0 The United States: 1865 to the Present
 HIST 2318.0 The United States in the 20th Century
 HIST 2375.0 Modern Latin America
 IDST 4421.1(.2) Special Topics in Development Studies
 MGMT 4493.1(.2) Business-Government Relations in Canada
 POLI 2315.0 Canadian Foreign Policy
 POLI 3440.0 Canadian-American Relations
 RELS 3355.1(.2) Religion and Social Issues in Canada
 SPAN 3304.1(.2) Americas: The Changing Face of Latin America
 SPAN 3305.1(.2) Contemporary Spanish Society

Asia

ANTH 2311.1(.2) Ethnology: Melanesia
 ANTH 2326.1(.2) Ethnology: East Asia
 ANTH 2327.1(.2) Ethnology: Japan
 ASNT 3300.1(.2) Multidisciplinary Study of Asia
 ASNT 2303.1(.2) Contemporary Japan: Institutions and Culture
 ASNT 2305.1(.2) Contemporary China: Institutions and Culture
 ASNT 3310.1(.2) Chinese Film and Literature
 ASNT 4400.1(.2) Seminar in Asian Studies
 ASNT 3407.0 Study Abroad: Japan
 ASNT 3408.0 Study Abroad: China
 ASNT 3450.1(.2) China, Eternal and Transforming: Travel and Study
 GEOG 3360.1(.2) Geography of Japan
 HIST 1222.1(.2) History of Asia: East Asia
 HIST 1223.1(.2) History of Asia: South and Southeast Asia
 HIST 2354.1(.2) Japan before 1800
 HIST 2368.1(.2) Japan since 1800
 HIST 2381.1(.2) China before 1800
 HIST 2363.1(.2) Asian Crossroads: Southeast Asia 1500 – 1900
 HIST 2372.1(.2) China since 1800
 HIST 2394.1(.2) The Emergence of Modern Korea
 IDST 4420.1(.2) Special Topics in Development Studies
 POLI 2314.1(.2) Politics of the Developing Areas
 RELS 2323.1(.2) The Islamic Religious Tradition
 RELS 2326.1(.2) The Hindu Religious Tradition
 RELS 2327.1(.2) The Buddhist Religious Tradition
 RELS 2340.1(.2) Japanese Religious Traditions
 RELS 2345.1(.2) Chinese Religious Traditions
 SOCI 4447.1(.2) [WMST 4447.1(.2)] Work and the Empowerment of Women in India

Europe

FREN 3310.1(.2) Introduction to French Culture
 GERM 3306.1(.2) German Culture and Civilization
 GERM 3307.1(.2) Introduction to German Literature
 GERM 3308.1(.2) Modern German Literature
 HIST 2304.0 Europe 1848-1989
 HIST 2305.0 History of Russia and the U.S.S.R.
 HIST 3402.0 [IDST 3402.0] Aspects of Global History: One Earth, Many Worlds

Cognate Electives

ANTH 3304.1(.2) Egalitarian Societies
 ANTH 3305.1(.2) Chiefdoms
 ANTH 3309.1(.2) Peasant Society and Culture
 ANTH 3338.1(.2) Medicine as Culture
 ANTH 3339.1(.2) Medicine in Culture
 ANTH 4475.1(.2) Seminar in Anthropology
 ECON 3310.1(.2) Development Economics
 ECON 3312.1(.2) History of Economic Thought
 ECON 3315.1(.2) Comparative Economic Systems
 ECON 3365.1(.2) International Economic Issues
 ECON 4410.1(.2) Issues in Economic Development
 ECON 4412.1(.2) History of Modern Economic Thought
 ECON 4413.1(.2) International Macroeconomics and Finance
 ECON 4414.1(.2) International Trade
 GEOG 1204.1(.2) Demographic and Culture
 GEOG 2214.1(.2) Environment and Livelihood
 GEOG 2302.0 The Geography of World Affairs
 IDST 4401.1(.2) Seminar in Development Studies: Conceptual Foundations
 IDST 4402.1(.2) Seminar in Development Studies: Contemporary Issues
 PHIL 2305.1(.2) Environmental Ethics
 PHIL 3211.1(.2) Political Philosophy
 PHIL 23281(.2) Philosophy of Mind: Contemporary Issues
 PHIL 2325.1(.2) Philosophical Issues in International Development
 POLI 2305.0 International Relations
 POLI 3321.1(.2) International Organization
 POLI 3322.1(.2) Global Political Economy
 POLI 2330.0 Introduction to Public Administration
 POLI 3418.0 International Law
 POLI 2445.0 Introduction to Public Policy
 RELS 1220.1(.2) Introduction to Comparative Religions, I
 RELS 1221.1(.2) Introduction to Comparative Religions, II
 RELS 2341.1(.2) Violence and Non-Violence: East and West
 RELS 2347.1(.2) Ecology and Religion
 SOCI 3385.1(.2) [IDST 4485.1(.2)] Problems of Development
 SOCI 3386.1(.2) [IDST 3386.1(.2)] Sociology of Developing Societies
 SOCI 3387.1(.2) [WMST 3387.1(.2)] Women and Development
 SOCI 3391.0 Rural Sociology
 SOCI 4420.0 Comparative Regional Development
 SOCI 4422.1(.2) [IDST 4422.1(.2); WMST 4422.1(.2)] Gender and Development: Theory and Method
 SOCI 4423.1(.2) [IDST 4423.1(.2); WMST 4423.1(.2)] Gender and Development: Policy and Practice
 SOCI 4425.0 Corporate Power

*Courses may be taken at other institutions subject to the approval of the Program Coordinator and the Dean of Commerce.

History (HIST)

Chairperson, Associate Professor	T. Stretton
Professors	C. Howell, J. Morrison, J. Reid, R. Twomey
Associate Professors	N. Neatby, B. Sewell, M. Vance
Assistant Professors	R. Barbosa, K. Freeman, L. Warner
Adjunct Professors	L. Codignola, R. Perrins
Professors Emeriti	O. Carrigan, J. MacCormack

Departmental Policy

To obtain a **major** in history, students must complete at least forty-two (42) credit hours in history, as follows:

- a. six (6) credit hours but no more than twelve (12) credit hours at the 1000 level;
- b. History 2370.1(.2) The Discipline of History
- c. the remaining credit hours must be at the 2000 or 3000 level or above; and
- d. at least of six (6) credit hours at the 4000 level.

Note: A minimum cumulative grade point average of 2.00 is required for courses designated for a major (see the general regulations concerning Arts Degree requirements).

The program of each student must be approved by the Department.

All prospective honors students should refer to the section of this *Calendar* pertaining to honors degrees and apply to the Registrar for enrolment in that program after completing eighteen (18) credit hours or more of History courses.

For an **honors** degree, students must satisfy the requirements of the major program. They must also complete:

six (6) additional credit hours in history at the 2000-3000 level;

twelve (12) additional credit hours at the 4000 level, and

HIST 4500.0 (the Honors Seminar). The program of each student must be approved by the Department.

Note: To qualify for the honors program, students must obtain and maintain a cumulative grade point average of 3.0 (see the general regulations governing honors degrees).

All students majoring in history are strongly advised to take twelve (12) credit hours in a foreign language. In the case of students concentrating in Canadian history, French is specified as the recommended language.

To **minor** in History, students are expected to follow the general requirements for a minor as outlined in Faculty of Arts Regulation 8, Section 3 of this *Calendar*.

To obtain a **concentration** in History in partial fulfillment of the B.A. General degree [i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours)], a minimum of twenty-four (24) credit hours in HIST is required; also a minimum grade point average of 2.00. Further details are available from the chairperson.

Graduate students should refer to the material entitled "Master of Arts in History Degree", Section 3 of this *Calendar*.

General Course Description

a. History courses numbered at the 1000 level are survey courses open to students with no university credits in the discipline. They are normally lecture courses; some combine lectures with small tutorial group meetings.

b. In order to enroll in a 2000 or 3000 level-course, a student must have six (6) credit hours in history, or at least thirty (30) credit hours in university courses, or the permission of the Chairperson. 2000 and 3000-level courses are usually structured to include both lectures and seminars.

c. History courses at the 4000 level are normally seminar courses designed for advanced work by history majors and honors students in Year 2 and above. History courses at the 6000-level are for Master of Arts students.

d. With regard to renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, HIST 1201.0 was formerly HIS 201.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR

COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
HIS 201	HIST 1201	HIS 490	HIST 3490
HIS 203	HIST 1203	HIS 491	HIST 3491
HIS 208	HIST 1208	HIS 492	HIST 3492
HIS 222	HIST 1222	HIS 493	HIST 3493
HIS 223	HIST 1223	HIS 494	HIST 3494
HIS 252	HIST 1252	HIS 495	HIST 3495
HIS 253	HIST 1253	HIS 496	HIST 3496
HIS 254	HIST 1254	HIS 420	HIST 3420
HIS 255	HIST 1255	HIS 497	HIST 3497
HIS 303	HIST 2303	HIS 498	HIST 3498
HIS 304	HIST 2304	HIS 499	HIST 3499
HIS 305	HIST 2305	HIS 500	HIST 4500
HIS 316	HIST 2316	HIS 508	HIST 4508
HIS 317	HIST 2317	HIS 510	HIST 4510
HIS 318	HIST 2318	HIS 511	HIST 4511
HIS 319	HIST 2319	HIS 515	HIST 4515
HIS 320	HIST 2320	HIS 519	HIST 4519
HIS 322	HIST 2322	HIS 520	HIST 4520
HIS 327	HIST 2327	HIS 522	HIST 4522
HIS 331	HIST 2331	HIS 524	HIST 4524
HIS 336	HIST 2336	HIS 525	HIST 4525
HIS 340	HIST 2340	HIS 535	HIST 4535
HIS 346	HIST 2346	HIS 560	HIST 4560
HIS 350	HIST 2350	HIS 570	HIST 4570
HIS 351	HIST 2351	HIS 571	HIST 4571
HIS 354	HIST 2354	HIS 572	HIST 4572
HIS 357	HIST 2357	HIS 573	HIST 4573
HIS 358	HIST 2358	HIS 574	HIST 4574
HIS 360	HIST 2360	HIS 575	HIST 4575
HIS 363	HIST 2363	HIS 589	HIST 4589
HIS 364	HIST 2364	HIS 595	HIST 4595
HIS 366	HIST 2366	HIS 596	HIST 4596
HIS 370	HIST 2370	HIS 597	HIST 4597
HIS 373	HIST 2373	HIS 598	HIST 4598
HIS 375	HIST 2375	HIS 599	HIST 4599
HIS 376	HIST 2376	HIS 608	HIST 6608
HIS 377	HIST 2377	HIS 610	HIST 6610
HIS 378	HIST 2378	HIS 611	HIST 6611
HIS 379	HIST 2379	HIS 615	HIST 6615
HIS 381	HIST 2381	HIS 619	HIST 6619
HIS 382	HIST 2382	HIS 620	HIST 6620
HIS 383	HIST 2383	HIS 622	HIST 6622
HIS 394	HIST 2394	HIS 625	HIST 6625
HIS 395	HIST 2395	HIS 635	HIST 6635
HIS 397	HIST 2397	HIS 650	HIST 6650
HIS 401	HIST 3401	HIS 660	HIST 6660
HIS 402	HIST 3402	HIS 670	HIST 6670
HIS 403	HIST 3403	HIS 671	HIST 6671
HIS 405	HIST 3405	HIS 672	HIST 6672
HIS 406	HIST 3406	HIS 673	HIST 6673
HIS 407	HIST 3407	HIS 674	HIST 6674

HIS 408	HIST 3408	HIS 675	HIST 6675
HIS 410	HIST 3410	HIS 689	HIST 6689
HIS 411	HIST 3411	HIS 690	HIST 6690
HIS 412	HIST 3412	HIS 695	HIST 6695
HIS 413	HIST 3413	HIS 696	HIST 6696
HIS 415	HIST 3415	HIS 697	HIST 6697
HIS 421	HIST 3421	HIS 698	HIST 6698
HIS 450	HIST 3450	HIS 699	HIST 6699

1201.0 Civilization in the West

This course is designed to explore the origins and development of the characteristic political, legal, and cultural institutions of Western Civilization and its impact on other cultures.

1203.0 The Twentieth Century

An historical approach to the major problems of our time. Emphasis will be placed upon the backgrounds to World Wars I and II, the emergence of the United States as a world power, the Communist Revolution and its impact, and the problems of industrial society.

1208.0 Global History: 1450 to the Present

The integrated nature of the modern world is taken for granted. How did we arrive at this point? Global history provides a context for understanding this development as we move into the 21st century. This course will examine the initial links developed between the world's civilizations during the 15th century and will trace factors which led to contemporary global interaction and interdependence.

1222.1.(2) History of Asia: East Asia

This introductory course explores historical change and social transformation in China, Japan, Korea, and Vietnam from antiquity to the present. Emphasizing especially the Chinese and Japanese experiences, the class will examine some of the more salient social, intellectual, political, and economic features apparent in the heritage of these societies as well as some of the ways each society has influenced the others.

Note: No previous study of Asia is required but students who have taken HIST 1209.1.(2) cannot receive another credit for this course.

1223.1.(2) History of Asia: South and Southeast Asia

This course will provide an introduction to South and Southeast Asia from 1000 A.D. to the present. Major topics will include the spread of Islam, Buddhism, Hinduism and Christianity throughout the region, trade and commerce on the Indian Ocean, insular and mainland political developments, intra and inter regional relations (East and West), the ebb and flow of European imperialism and the impact of decolonization.

Note: No previous study of South or Southeast Asia is required but students who have taken HIST 2363.1.(2), 2364.1.(2) or 2358.1.(2) cannot receive another credit for this course.

1252.1(2) Canada to Confederation

This course will examine early Canadian history from the time of the first native-European contact up to Confederation. Emphasis will be placed on the development of New France/Lower Canada, Upper Canada, and the West. Political, social, and economic themes will be considered.

1253.1(2) Canada: Confederation to the Present

This course will examine the shape of political culture in modern Canada; the debate between the advocates of the nation state and of federalism; and the impact of industrialization, regionalism, war, and depression on that debate.

1254.1(2) The United States to 1877

This course deals primarily with the major themes of American history from the colonial period to the Civil War and Reconstruction; the origins and nature of American government, politics, and society; the origins of slavery and racism; and expansion. These themes will be approached through a study of the major groups and events in American history (the New England Puritans, the Founding Fathers, Southern slaveholders, the American Revolution, the Civil War), as well as major political figures from Thomas Jefferson to Abraham Lincoln.

1255.1(2) The United States: 1865 to the Present

This course will examine American history from 1865 through the present day. Designed primarily as an introduction to the history of the United States, it will acquaint students with important events and documents of the American past. Lectures will explore such themes as industrialization, urbanization, immigration, foreign relations, and the ascendancy of the American nation-state, as well as the effects of race, class, gender, ethnicity, and region upon these larger processes. Using a wide variety of primary texts from the Civil War through the present day – including political speeches, films, and advertisements – students will explore modern American history and consider how historians have come to understand the past.

In order to enroll in the following courses a student must have six (6) credit hours in history, or at least thirty (30) credit hours of university courses, or the permission of the Chairperson.

2303.0 Tudor and Stuart Britain

This lecture and seminar course provides a broad survey of the social, economic, cultural and political histories of Britain between 1485 and 1714, with a focus on original sources and images and how historians interpret them. It will examine how this small island nation on the fringes of Europe began its transformation into a dominant world power, while experiencing religious reformation, invasion threats, civil war, republican experiment, and the execution of one king and the forced exile of another. It will also examine some of the remarkable personalities of the age, from Mary Tudor and Queen Elizabeth to Christopher Marlowe, William Shakespeare, and Isaac Newton.

2304.0 Europe 1848-1989

An examination of the political, social, and economic history of Continental Europe focusing on France, Germany and Italy from the Revolutions of 1848 to the end of the Cold War. In particular, the social and economic developments underlying the forces of liberalism, imperialism, socialism, fascism, and communism, as well as the causes and consequences of World Wars I and II will be considered in some detail.

2305.0 History of Russia and the U.S.S.R.

An introductory survey beginning with Kievan Rus and ending with the collapse of the Soviet Union in 1991.

2316.1(2) Africa in the 19th Century: Intrusion and Conquest

This course will outline the nature, values and history of traditional African societies; it will examine the intrusion, partition and conquest of those societies by Europeans in the 'Scramble for Africa'.

2317.1(2) Africa in the 20th Century: Colonialism and Independence

An examination of the activities of the colonial powers in governing the territories and peoples which they acquired in the 'Scramble'. The course will also study the reactions of Africans to colonialism and the factors which led to independence.

2318.0 The United States in the 20th Century

Designed for students with six (6) credit hours in a university course in history, this course will look closely at the past American century. It will consider the rise of the United States as a political and cultural force, and examine such large-scale movements as progressivism, the Cold War, the ascendancy of the Presidency, national government, and mass culture. It will closely examine the relationship of individuals' lived experience to these larger social and political movements.

2319.0 Canadian-American Relations

This course will examine basic developments in Canadian-American relations. Political as well as social, economic and religious trends will be analyzed. Some opportunity will be afforded students to use the vast quantity of primary source material at the Public Archives of Nova Scotia.

2320.0 The Atlantic Provinces and New England

An examination of the relationship of New England and the Atlantic Provinces from a comparative point of view. This course deals with political, economic and religious trends common to the experience of both communities.

2322.0 South Africa

A study of the complex relationships and conflicts arising from different cultures, religions and skin colours from the 17th century to the apartheid state of the mid-20th century.

2327.1.(2) France and New France

What brought the French to North America? This course examines French perception of the New World, their shifting attitudes to the indigenous peoples, to the opportunities for settlement, to religious conversion, and to commercial exploitation. Through the examples of Acadia and New France, the course will examine the issues of culture and identify how these settlements forged identities, as well as how these colonies influenced ideas back in France.

2330.1.(2) Colonial America, 1600-1765

The primary purpose of this course is to reconstruct and convey the complex nature and enormous diversity of the Colonial Era of U.S. history, a period of intense historical investigation in recent years. Particular emphasis is placed on the way colonization was experienced by all peoples and groups concerned, and on the shaping of human relationships in social, imperial, environmental and transatlantic contexts. The result is a new narrative of the colonial experience, a "new, more integrated early American past."

2331.0 The Era of the American Revolution

A course on the American Revolution and its aftermath, especially the major social, political, and intellectual transformations of the era. Emphasis on the radicalism of the American Revolution and on major problems of historical interpretation.

2336.1.(2) Revolution, Reform and Respectability: Britain 1688 – 1870

The period examined in this course is not only associated with the creation of the British state, but also its rise, by the middle of the 19th century, to the leading world power. Yet recent literature has demonstrated that this development was accompanied by profound social and economic transformations that were highly contested. In order to appreciate the nature of these struggles, this course will cover such diverse topics as the impact of overseas expansion, warfare, agricultural and industrial change, migration, political radicalism, and 19th-century Victorian morality.

2340.0 History of the Atlantic Provinces

Commencing with the earliest European contact with the region, this course will concentrate on the period after the beginning of permanent settlement. Special emphasis will be given to Nova Scotia as an area of severe clashes between the Indian and European cultures, of intense English-French rivalry, and later of the problems in adapting traditional British models of government, settlement, and society to a colonial region.

2346.1.(2) Black Heritage in Maritime Canada

This course will provide an historical survey of the Black population in Maritime Canada, its origins, socio-economic conditions, and evolution to the present.

2350.0 Cross-listed as CLAS 2303.0 History of Greece**2351.0 Cross-listed as CLAS 2304.0 History of Rome****2354.1.(2) Japan Before 1800**

After a brief survey of prehistoric Japan, this course explores two formative eras in Japanese history: the era of courtly (or aristocratic) society and the era of the samurai (warriors). Although the course proceeds chronologically, in order to provide students with a more analytical understanding the course employs a topical approach, considering political, economic, intellectual, and social issues in each era. No previous study of Japan is required.

2357.0 Cross-listed as CLAS 2307.0 Ancient Rome in Film, Fiction, Fact**2358.1.(2) Mughal to Modern India: 500 Years of History**

India is the largest democracy in the world. Over the last half millennium its history has been marked by architectural and intellectual achievement, conquest (notably by Islam and the West), the rise of nationalism in the late 19th century and the early 20th century, and the passive resistance campaign by Gandhi that led eventually to independence and freedom. This course will explore these and other aspects of Indian history and provide an understanding of India's role in the modern world.

2360.0 A History of Women in the Western World [WMST 2360.0]

A survey which examines the role of women in western civilization from the post Roman and early Christian world to the 20th century. This course will especially concern itself with an historical perspective of women's participation in the social and economic life of their communities.

2363.1.(2) Asian Crossroads: Southeast Asia, 1500-1900

Southeast Asia, consisting of Burma, Cambodia, Laos, Indonesia, Malaysia, Philippines, Singapore, Thailand, and Vietnam has been a confluence of commercial trade and cultural influences for centuries. This course examines the interaction of indigenous kingdoms and societies within the area and beyond with India, China, and Europe. It traces the rise of European imperialism and colonization in the area.

2364.1.(2) Modern Southeast Asia: Colonialism to Independence

The course examines the vibrant and at times turbulent states of Southeast Asia. It examines European conquest and Asian resistance and looks in detail at European colonial administration and American and Japanese expansion. Finally, it accounts for the rise of various nationalist movements and the resultant nation-states in the region.

2366.1.(2) History of Scotland, 1560 to the Present

Golf, whisky, Mary Queen of Scots, sober Presbyterians, Bonnie Prince Charlie, Highland clearances, Edinburgh's neo-classical "New Town", Dundee's Jutopolis, Glasgow's Old Firm football rivalry, North Sea Oil, Trade Union radicals and Scottish Nationalists. These contemporary associations with Scotland draw heavily on the historical experience of the inhabitants of the Kingdom and, despite their sanitized form, highlight the tensions which characterize that past. This course will provide a survey of Scottish history from the early modern period to the present with a particular focus on how these competing Scottish identities were developed and institutionalized.

2368.1.(2) Japan since 1800

After a brief survey of the Tokugawa Shogunate, emphasizing those features of society most pertinent to the ensuing era, this course examines the evolution of Japanese society in the imperial and postwar periods. While chronological, the course follows a topical approach, considering political, economic, intellectual, and social change within the early modern, modern, and contemporary eras. No previous study of Japan is required, though HIST 1209.0, 1222.1.(2), or 2354.1.(2) are recommended.

2370.1.(2) The Discipline of History

This course addresses the nature of historical study, that is, the theories, methods, principles and problems associated with the discipline of history. It examines the following basic areas of historical inquiry: the purposes of historical study; the relevance of the past; the relationship between the past and present; the nature and validity of historical knowledge; the relationship of history to other disciplines; and the current state of historical explanations and of historical explanation as such.

Note: Students who have already earned credit for HIS 400.0 or HIST 3400.0 will not be permitted to enroll in this course.

2372.1.(2) China since 1800

This course explores the collapse of imperial China and the ensuing efforts to renew Chinese society. While chronological, the course follows a topical approach, considering the dynamics of political, economic, intellectual, and social change within the Late Imperial, Republican, and post-1949 eras. No previous study of China is required, though History 1209.0, 1222.1.(2), or 2381.1.(2) are recommended.

2373.1.(2) Voices of the Past: Oral Research**Methodology**

This course examines historical methodology with particular attention to the use of oral research. In areas where there is little documentation, such as labour, ethnic or community history, oral research is of vital importance and represents, in an age of instant communication, an integral part of contemporary history. The theoretical and practical use of oral sources will be examined and methodology, technique, and interviewing experience will be included with particular reference to the Atlantic region.

2375.0 Modern Latin America

A survey of the emergence and historical development of the Latin American nations since their independence from Spain and Portugal in the early 19th century. The course will focus especially on the political, economic and social evolution of the more populous nations.

2376.1.(2) Special Topics: U.S. History

Further details are available from the Chairperson of the Department.

2377.1.(2)-2379.1.(2) Selected Topics in History

The subject matter of particular three (3) credit hour courses will be announced from time to time. They will cover aspects of history in one or more of the major geographical areas of North America, Europe, Africa and Asia. The topics to be examined will be determined by the instructor.

2381.1.(2) China Before 1800

This course explores roughly four millennia of Chinese history, from the distant origins of Chinese society to its zenith during the Qing Dynasty. Divided into three eras – Ancient, Early Imperial, and Late Imperial – the class follows a topical approach that considers the dynamics of political, economic, intellectual, and social change within each era. No previous study of China is required.

2394.1.(2) The Emergence of Modern Korea

After a brief survey of the rise of Korean civilization since antiquity, this course examines three turbulent eras in Korean history: (1) the long era of gradual change during the Yi dynasty that culminated in confrontation with imperialist powers, (2) the half-century of Japanese domination, and (3) the era of civil war and continuing division. Although the course proceeds chronologically, in order to provide students with a more analytical understanding the course employs a topical approach, considering political, economic, intellectual, and social issues in each era.

2395.0 Ireland, 1600-1985: From the Plantations to the “Troubles” [IRST 3395.0]

This course will concentrate on Ireland’s transition from a colony, for English and Scottish settlers, to an independent state in the European community. Emphasis will be placed on the cultural and political legacy of the 17th century plantations, as well as the consequences of Irish nationalism for Britain and its empire. The development of the “Ulster Question” will be examined in the last section of the course.

2397.1.(2) The Lingering Death of Imperial Britain, 1870-1982

Since the late nineteenth century, many Britons have been preoccupied with notions of imperial, economic, and social decline. This course will test the validity of these perceptions by surveying important changes which have affected British society from the height of British imperial power to the Falklands War. Some topics to be explored are: “new imperialism”, the women’s suffrage movement, decolonization, deindustrialization, mass unemployment, Labour socialism, Thatcherism, the impact of two world wars, and the rise of Celtic (Irish, Scottish, and Welsh) nationalisms.

3100.1.(2) Canadian Women

This course offers a survey of the historical experiences, status and activities of Canadian women in all their diversity from 1900 to the present. Topics will include women’s economically valuable work in the household and the paid labour force, and family life and sexuality. Special emphasis will be placed on women’s struggles for economic equality and full political and social participation in Canadian society

3401.0 American Social and Intellectual History

A study of the major social and intellectual developments in American history from the colonial era to the present. Special emphasis on the relationship of ideas to society and social change, on slavery and racism, and on class, ideology, and society, especially in the 18th and 19th centuries.

3402.1(2) Aspects of Global History: One Earth, Many Worlds [IDST 3403.1(2)]

Selected African, Asian, and Latin American societies will be examined especially with regard to the impact of European expansion and conquest on what is now called the Developing World. Various economic, political, and social themes will be studied to provide a context for understanding the forces and events which led to the rise of the 'global village' of the 1990s.

3403.1(2) The Invention of Canada

Canada has been imagined in a number of ways throughout its history: as a storehouse of staples commodities, a raucous frontier society, a mature colony that evolved peacefully into nationhood, as a bicultural and/or multicultural society, a land of regions, a cultural appendage of the United States, and as a peacemaking middle power. How have these images been created, and whose interests did they serve? To what extent have these popular representations incorporated an appreciation of class, ethnic, gender, and racial differences? This course will look at the invention of national images from the 17th to the 20th century, using anthropological, architectural, literary, artistic, and cultural sources.

3405.1(2) Society and Culture in Early Modern Europe

This course investigates the people, culture, and regions of Europe (England, France, Germany, Italy, Spain, and Holland) from the Renaissance to the late 17th century. Through topics such as witchcraft and literacy, students explore a variety of primary sources including painting, architecture, woodcuts, popular ballads, and literature.

3406.1(2) Ideas and Politics in Early Modern Europe

This course explores the literature and thought of the Renaissance and Reformation through to the 17th century. Through visual images as well as writers such as Machiavelli, Castiglione, Erasmus, Marguerite de Navarre, Luther, Calvin or Montaigne, students will trace the developments of ideas about human nature and politics.

3407.1(2) British Colonization, 1500 – 1900

The legacy of British Colonization is apparent around the globe. Migrants from the British Isles established settlements in places as far afield as Ulster, Nova Scotia, Jamaica, South Africa, New South Wales and Vancouver Island. This course will examine some of the consequences of this activity for both the receiving and sending societies by sampling the literature on such diverse topics as encounter with indigenous peoples, dispossession, settlement schemes, pioneering experience and colonial literatures.

3408.1(2) British Imperialism, 1760 to the Present

British Imperialism, as both an ideal and a practice, can be traced to the eighteenth century, with its heyday often located in the late nineteenth-century. Its legacy is readily apparent today in statues of Queen Victoria that litter former imperial cities from New Delhi to Melbourne. This course will trace the origin and development of British Imperialism and will focus in particular on recent literature that highlights its impact on such diverse subjects as the development of architecture, sporting culture, attitudes toward the environment, notions of masculinity and perceptions of race.

3410.1(2) The Scientific Revolution

Between Copernicus and the end of the 17th century, the foundations of our contemporary scientific outlook were established in Western Europe. The course will examine the cultural and intellectual background of the scientific revolution. It will look at its social and institutional consequences.

3411.1(2) The Enlightenment

The intellectual, social, and philosophical milieu of the Western world was profoundly altered in the latter part of the 17th and in the 18th centuries. Largely in response to the scientific revolution, European political and social assumptions and foundations were questioned. The re-examination led to a profound reshaping of the foundations of European institutions. The course will examine this process and its development.

3412.1(2) The History of Biology

Prerequisite: six (6) credit hours in history or biology.

A survey of the development and evolution of ideas concerning the nature of living things, their form and function, and their relationships from the ancient world to the twentieth century.

3413.1(2) The History of Environmental Sciences

Prerequisite: six (6) credit hours in history or one of the sciences.

How we perceive the world depends upon our culture. The course is a study of western attitudes to nature from antiquity to the present. It will examine the development of the fields of geography, geology, natural history, evolutionary theory, and ecology.

3415.0 The Western Family: Sex, Marriage and Love, 1400-1800

This course considers the origins of the modern family and traces the shifts in attitude to celibacy, marriage, sexuality, adultery, love, childhood and death from Renaissance Italy through to the Reformation, the rise of the romantic novel, the French Revolution, and the Industrial Revolution. Students will read or be exposed to primary sources such as letters, ballads, diaries, paintings, woodcuts, and literature.

3420.1(2) History of Sport and Leisure in the Modern World

This course looks at the development of sport in the modern world, its increasing specialization and bureaucratization, its commercialization, its ritualistic character, and its connection to issues of race, gender, ethnicity, and class. Although the focus is international, the course will draw heavily on Canadian, American, and British examples.

3421.1(2) History of Health and Medicine in the Modern World

This course looks at the concern for healthy bodies and minds in the 19th and 20th centuries. It will address a range of issues including the professionalization of medicine and psychiatry, attitudes towards the body, sexuality and gender identity, health care and the state, and alternatives to orthodox medicine.

3450.1(2) Film and History

Increasingly, historians have to make use of moving images as source material for their histories, while much of the public perception of the past is being shaped by documentaries and feature films. The first half of this course will examine the strengths and weaknesses of using moving images as historical documents and the second-half will examine the role of film in interpreting the past. The goal of the course is to provide students with the ability to critically “employ” and “read” film for the discipline of History. Films for study will be selected by the instructor.

3490.1(2) – 3496.1(2); 3497.0 – 3499.0 Thematic Selected Topics

The subject matter of these courses will be announced from time to time. They will focus on particular historical themes and/or specific chronological periods. The topics to be examined will be determined by the course instructor.

4000-level courses are designed for the advanced study of history. Students should have extensive university experience before they attempt these courses.

4500.0 The Honors Seminar

Prerequisite: admission to the final year of the honors program.

As part of this seminar, history honors students are required to submit and defend a substantial essay to be selected and prepared in conjunction with a faculty advisor.

4501.0 Public History

This course introduces students to both the field of public history and to the application of history and historical methods in a variety of workplace settings. Public history, which involves the practices and presentation of history outside academia, is the domain of a wide variety of practitioners including historians, museologists, archivists, journalist, museum workers, genealogist, film makers and researchers. This course will examine the evolution of public history as a field of study since the 1960s and will focus on analysis of the presentation of history in a variety of films, presentations, and historic sites. The course content will be primarily Canadian and American, examining

questions about ethics, standards and audience. The course will have both a classroom and an applied history or workplace component. Seminar three hours per week, plus successful completion of eight hours weekly of mentored volunteer work in a public history setting.

4508.1(2) (6608.1(2)) Seminar in Intellectual and Cultural History

This interdisciplinary seminar will adopt a thematic approach in order to explore ideas in history across borders, cultures and centuries. Intended for students in their graduating year, topics for exploration may include the media, the law, liberty, the family, gender and/or sexuality.

4510.0 (6610.0) Global History: History and Historians

Prerequisite: HIST 2385.0 or a history major with senior standing.

This seminar in global history will examine selected topics in world history from 1400 to the present. It is intended for honors and graduate students. Topics to be examined include major themes of global history; historiography; and historians such as W.H. McNeill, L. S. Stavrianos, and A. Toynbee who have taken a global approach to the study of the past.

4511.0 (6611.0) Seminar in East Asian History

Prerequisite: six (6) credit hours in East Asian History.

This seminar course will examine selected topics in the history of East Asia. The topics to be studied will be chosen by the instructor. As part of the course requirements, students will write a major research paper and present it to the seminar.

4515.0 (6615.0) Seminar in Historiography

Prerequisite: senior or graduate standing.

A specific historical period or topic will be selected by the instructor and each student will be assigned a particular historian or historical school for the purpose of writing a paper. The seminar will address a variety of historical viewpoints and demonstrate the influence of one’s milieu on the writing of history.

4519.0 (6619.0) Seminar in Modern European History

A seminar on selected topics in the history of modern Europe, 1800 to present, intended for history majors in their graduating year, honors, and graduate students. Topics to be examined will be selected by the instructor; students will be required to research and write a major paper on the topic selected, and present it to the seminar for discussion and criticism.

4520.0 (6620.0) The Two World Wars

This course will consider the origins of each of the two world wars of the early 20th century, and the diplomacy, war aims, and conduct of the war by each of the principal belligerents. The first semester will be devoted to World War I and the second semester to World War II.

4522.0 (6622.0) Seminar in American History

A seminar on American history from the origins to the present emphasizing major problems in historical interpretation. Special consideration to the Revolutionary and Early Republican eras, the American and transatlantic radical traditions, and the Age of Revolutions.

4524.0 (6624.0) The U.S.S.R.

Prerequisite: at least six (6) credit hours in European history.

A seminar covering the period 1917 – 1991. Topics will include the theory and practice of communism, nationalism, terror, World War II, culture in the totalitarian state, and the dilemma of reforms.

4525.0 (6625.0) Seminar in Irish and Scottish Emigration [IRST 5525.0]

This course provides students with an understanding of the relationship between emigration and social change within Ireland and Scotland, from about 1700 to 1900. The focus will be on emigration to North America, but within that broad subject area students will examine the issues of religion, crime, popular protest, gender roles, agricultural change, and industrialization in relation to the movement overseas. The seminar will meet on a weekly basis and students will be expected to give presentations based on assigned readings and one monograph analysis. In addition, a formal presentation of a research paper will be required in the second semester.

4527.1(.2) (6527.1(.2)) Biography and History

This course will examine the relationship between biography and history, beginning with consideration of how far the essentials of historical methodology can be followed in biographical study. A variety of forms of biography will then be examined, including private and public approaches to biography, autobiography, and popular biography. Specific biographical subjects will be explored in detail as case studies. The central question considered throughout will be whether biography, in any of its forms, can be considered either as a form of historical enquiry or as a valid historical source.

4535.0 (6635.0) Northeastern North America, 1480-1720

Prerequisite: enrolment in the major or honors program in History or permission of instructor.

This course will examine the history of native and Euro-American societies, and the interaction between them, in the era of early contact and colonization. "Northeastern North America" will be defined to include the territories known to Europeans by 1720 as Newfoundland, Acadia/Nova Scotia, New England, New York and Canada.

4560.0 (6660.0) History and Society: The Atlantic Provinces Seminar

Prerequisite: honors or graduate standing.

This course, intended for masters students in Atlantic Canada Studies and honors and masters students in history, addresses the nature of historical inquiry into issues relating to the social and economic history of the Atlantic region. Topics to be covered will include regional culture, gender

and race, the family, processes of development and underdevelopment, scientism and professionalization, health, recreation and sport. Students who have completed HIS 560.0 are not eligible to enroll in ACST 6660.0.

4570.1(.2) – 4574.1(.2); 4575.0 (6670.1(.2) – 6674.1(.2); 6675.0) Selected Topics Seminar

As with other selected topics courses, the subject matter of these seminars will be announced from time to time. Topics to be examined will be determined by the course instructor. Seminars concentrate on group discussion and the presentation of research papers.

4589.1(.2) (6689.1(.2)) Reading Course in History – Selected Topics in Irish History

Prerequisite: permission of instructor.

An independent reading course in selected topics in Irish history, primarily social, political, and intellectual history in the 18th and 19th centuries. Topics include: Irish popular and radical movements and ideas in a transatlantic context; Ireland in the Age of the Democratic Revolutions; the Irish in America and Canada; Irish political institutions and political culture. Readings, consultations, and final paper.

4595.1(.2)-4599.1(.2) (6695.1(.2)-6699.1(.2)) Reading Courses in History

Prerequisite: permission of instructor.

Each reading course will be organized by the instructor(s) involved. In general, each course will be centered round a specific theme, and the students will be expected, through their reading, to be familiar with all aspects of the chosen area. Examinations and/or papers will be required at the end of each course.

6650.0 Seminar in Advanced Historiography

Prerequisite: graduate standing.

This seminar will examine selected contemporary historiographical issues and guide candidates in the preparation of their thesis proposals.

6690.0 Thesis Research

Prerequisite: graduate standing.

Students will engage in the research and writing of a thesis under the supervision of a thesis committee. The student must satisfy the supervisor that thesis research and all other methodological and disciplinary preparation for the successful handling of the thesis topic have been completed. Supervisors may require a demonstration of language competence or extra course work as preparation for the treatment of certain thesis topics. Students will publicly defend their thesis, following which a final grade will be determined by the thesis committee.

Cross-Listed Courses

Certain courses offered by the Departments of Modern Languages and Classics, Anthropology, and Religious Studies may, in special circumstances, be cross-listed and counted in a student's History concentration. In such cases, the student must obtain the Department's permission.

International Development Studies (IDST)

Program Committee on International Development Studies

A. O'Malley, Coordinator	International Development Studies
J. Chamard	Management
T. Charles	Finance, Information Systems and Management Science
A. M. Dalton	Religious Studies
S. Dansereau	International Development Studies
M. Doucet	Political Science
M. Ighodaro	Sociology and Criminology
D. Leclaire (<i>ex officio</i>)	International Activities
J. Morrison	History
A. Schulte-Bockholt	Sociology and Criminology
N. Sharif	Economics
A. Spire	Modern Languages
E. Tastsoglou	Sociology and Criminology
H. Veltmeyer	Sociology and Criminology
S. Wein	Philosophy
Adjunct Professors	C. Amaratunga, D. Black, J. Kirk, J. McKinnel, J. Parpart, J. Petras, T. Shaw, J. Tellez

Note: In addition to the above IDS Program Committee members and Adjunct Professors, there are several other Saint Mary's faculty members teaching IDS related courses.

The International Development Studies Program is an interdisciplinary degree program which uses the analytical concepts and research of many university disciplines to explain the startling, and in many cases disturbing, differences in human living conditions among the world's social groups, especially those found in what is commonly called the developing world.

Using the techniques and theories of the social sciences and humanities disciplines, International Development Studies carries out research, assesses available explanations and engages in real world practices which seek to further the betterment of human living conditions in all countries throughout the world, but especially countries in the so-called developing world. International Development Studies has a strong orientation towards empirical research, fieldwork, and other forms of primary data acquisition. However, there is also an important role in international development studies for evaluating the empirical research of others in an attempt to create useful synthetic understandings and explanations which contribute to the formation of development perspectives and development theory. Besides the social science disciplines, extensive use is also made of the analytical techniques, explanations and understandings of philosophy, history, psychology, modern

languages, religious studies, management, and a number of the natural sciences.

A degree in international development studies may be combined with a degree in another discipline recognized by the International Development Studies Program. Joint majors, and minors, may be arranged through consultation with the University department involved and the Coordinator of International Development Studies Program, or his or her designate.

Students interested in IDS, including students contemplating IDS as a possible major, are encouraged to speak with the IDS Coordinator or Undergraduate Advisor.

The International Development Studies Program strongly recommends that students in IDS gain competency in a second language relevant to their studies. Students are especially referred to the Certificates offered by the Department of Modern Languages. For example, students wishing to focus on the Latin America region should note that a number of courses leading towards the Certificate of Spanish Language and Hispanic Culture may also be counted towards IDS degree.

In addition to the general and basic requirements for the Bachelor of Arts degree set out by the Faculty of Arts, students taking a degree within the International Development Studies Program must fulfill the following requirements:

The Major Program

- a. The appropriate first year courses, including Faculty of Arts basic requirements, and at least six (6) credit hours from the social science electives ANTH1202.1(.2), ECON1201.1(.2) or ECON1202.1(.2), POLI1200.0, or SOCI1210.1(.2), or SOCI1211.1(.2), as appropriate;
- b. the equivalent of forty-two (42) credit hours approved for the program, of which:
 - (i) twelve (12) credit hours must be IDST 2301.1(.2), 2302.1(.2), 3401.1(.2), and 3402.1(.2);
 - (ii) a further twelve (12) credit hours, of which three (3) credit hours must consist of SOCI3386.1 (.2) or SOCI3385.1 (.2); three (3) credit hours must consist of ECON1202.1 (.2); and three (3) credit hours must consist of POLI2314.1 (.2) or an approved Political Science course at the 2000 level or above. A final three (3) credit hours shall consist of IDST3424.1(.2); and
 - (iii) the remaining eighteen (18) credit hours must be from the IDS annual List of Approved Courses (available from the Program), or must be selected from courses with a clear focus on international development issues, in which case permission of the Program Coordinator or his/her designate is required. Six (6) credit hours of these eighteen

must be at the 4000 level or above, the remaining twelve (12) credit hours being at the 3000 level or above. In completing this requirement, students are encouraged to combine social science courses with other courses when choosing electives.

Students must consult with the undergraduate advisor or the IDS program Coordinator regarding approval for courses not appearing in the IDS annual List of Approved Courses.

The Minor Program

The equivalent of twenty-four (24) credit hours selected from courses approved for the program, of which:

- a. six (6) credit hours consisting of IDST 2301.1(.2) and IDST 2302.1(.2);
- b. nine (9) credit hours consisting of: ECON1202.1 (.2); and SOCI3385.1 (.2) or SOCI3386.1 (.2); and POLI2314.1 (.2) or an approved political science course at the 2000 level or above;
- c. the remaining nine (9) credit hours must consist of courses selected from the IDS List of Approved Courses (available from the Program), and must be at the 3000 level or above.

The Concentration Program

To obtain a concentration in International Development Studies in partial fulfillment of the B.A. General degree [i.e., one with Double Arts Concentrations, a minimum of twenty-four (24) credit hours in IDST is required, and courses must be selected from the IDS List of Approved Courses, or they must receive the approval of the undergraduate advisor or Coordinator.

The Honours Program

- a. To obtain an honours degree in International Development Studies, a student must first be admitted to the honours program and must then complete all requirements pertinent to the IDS honours program.

Students are encouraged to consult with the undergraduate student advisor to arrange a course schedule adequate to the demands of completing the required honours thesis. More specifically:

- (i) To be admitted to the program, a student must satisfy pertinent Faculty of Arts requirements for entry into an honours program, and must have a cumulative grade point average of 3.0 or better;
 - (ii) To graduate from the program, a student must satisfy the pertinent Faculty of Arts and IDS requirements, and complete the equivalent of sixty-six (66) credit hours as outlined below; and
 - (iii) To graduate from the program, a student must also receive a minimum grade of B+ (3.30) in IDST4500 (the Honours Seminar). Students should note that the Honours Seminar is a full year course; September entry only.
- b. For the Bachelor of Arts (Honours) degree in International Development Studies, all students must complete no fewer than sixty-six (66) credit hours, of which:

- (i) eighteen (18) credit hours must be IDST2301.1 (.2), 2302.1(.2), 3401.1(.2), 3402.1(.2), and IDST4500.0;

- (ii) a further twenty-one (21) credit hours must be:

ECON1202.1(.2) and any additional three (3) credit hours in Economics (such as ECON3310.1(.2); and POLI2314.1(.2), and any additional three (3) credit hours in Political Science; and SOCI3386.1(.2) or SOCI3385.1(.2), and any additional three (3) credit hours in Sociology. The remaining three (3) credit hours shall consist of IDST3424.1 (.2). With the exception of ECON 1202.1 (.2), all courses other than the above must be at the 2000 level or higher and must be from the IDS annual List of Approved Courses (available from the Program);

- (iii) the remaining twenty-seven (27) credit hours must be selected from the IDS annual List of Approved Courses, or must be selected from courses with a clear focus on international development issues, in which case permission of the Program Coordinator or his/her designate is required. Six (6) credit hours of the twenty-seven must be at the 4000 level or above, the remaining twenty-one (21) credit hours being at the 3000 level or above. Students should attempt to select courses that will allow them to concentrate on the development problems of a particular region, such as Latin America, Africa, Asia, Oceania, or the Middle East. Courses recognized by IDS can be found in the List of Approved Courses.

Students must consult with the undergraduate advisor or the IDS Program Coordinator regarding approval for courses not appearing in the IDS annual List of Approved Courses;

Approved IDS Courses

Note: Some of these courses have prerequisites which students should note very carefully.

Students are encouraged to consult the International Development Studies Program List of Approved Courses for currently available courses. The List below is a sampling of IDST typically approved courses; however the official annual List will take precedence over the courses appearing below.

Anthropology

ANTH 2311 Ethnology: Melanesia
 ANTH 2326 Ethnology: East Asia
 ANTH 3304 Egalitarian Societies
 ANTH 3309 Peasant Society and Culture
 ANTH 3334 Approaches to Human Conflict

Asian Studies

ASNT 3300 Multidisciplinary Study of Asia
 ASNT 3305 Contemporary China: Institutions and Culture

Criminology

CRIM 4415 Drugs and Power in Latin America

Economics

- ECON 3300 Intermediate Microeconomic Theory
- ECON 3301 Intermediate Macroeconomic Theory
- ECON 3310 Development Economics
- ECON 3315 Comparative Economic Systems
- ECON 3349 Women and the Economy
- ECON 3363 Environmental Economics
- ECON 3365 International Economic Issues
- ECON 4410 Issues in Economic Development

Education

- EDUC 4461 Language, Culture, and Education

English

- ENGL 4460 Postcolonial Literature: An Overview

Finance, Information Systems and Management Science

- FINA 4476 International Financial Management

Geography

- GEOG 2302 Geography of World Affairs
- GEOG 2339 Cultural Geographies

History

- HIST 2375 Modern Latin America

Management

- MGMT 4488 International Business Management
- MGMT 4494 Entrepreneurship: Theories and Concepts

Marketing

- MKTG 3375 International Marketing

Modern Languages and Classics

- SPAN 3304 The Changing Face of Latin America
- SPAN 3310 Latin America Culture

Philosophy

- PHIL 2305 Environmental Ethics
- PHIL 2325 Philosophical Issues in Int'l Development
- PHIL 4525 International Justice

Political Science

- POLI 2314 Politics of Developing Areas
- POLI 2315 Canadian Foreign Policy
- POLI 3321 International Organization
- POLI 3322 Global Political Economy
- POLI 3418 International Law
- POLI 3451 Gender and International Relations
- POLI 3456 Issues in International Security
- POLI 4402 Model United Nations

- POLI 4493 Global Social Movements
- POLI 4553 International Studies Seminar

Religious Studies

- RELS 3312 Theologies of Liberation
- RELS 3348 Religion & Ecological Issues In the Developing World
- RELS 3387 Religions & Multiculturalism

Sociology

- SOCI 3319 Reform and Revolution in Latin America
- SOCI 3333 Social Movements
- SOCI 3385 Problems of Development
- SOCI 3386 Sociology of Developing Societies
- SOCI 3387 Women and Development
- SOCI 3391 Rural Sociology
- SOCI 4422 Gender & Development: Theory & Method
- SOCI 4423 Gender & Development: Policy & Practice
- SOCI 4447 Work and the Empowerment of Women in India
- SOCI 4481 Gender, Ethnicity and Migration
- SOCI 4482 Gender and International Migration

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, IDST 2301.1(2) was formerly IDS 301.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
IDS 301	IDST 2301	IDS 520	IDST 5520
IDS 302	IDST 2302	IDS 540-	IDST 5540-
IDS 401	IDST 3401	542	5542
IDS 402	IDST 3402	IDS 543	IDST 5543
IDS 403	IDST 3403	IDS 544	IDST 5544
IDS 420	IDST 4420	IDS 545	IDST 5545
IDS 421	IDST 4421	IDS 550-	IDST 5550-

IDS 422	IDST 4422	555	5555
IDS 423	IDST 4423	IDS 553	IDST 5553
IDS 424	IDST 3424	IDS 554	IDST 5554
IDS 450	IDST 4450	IDS 560	IDST 5560
IDS 452-459	IDST 4452-4459	IDS 563	IDST 5563
IDS 453	IDST 4453	IDS 570	IDST 5570
IDS 454	IDST 4454	IDS 585	IDST 3485
IDS 456	IDST 4456	IDS 601	IDST 6601
IDS 457	IDST 4457	IDS 602	IDST 6602
IDS 458	IDST 4458	IDS 620	IDST 6620
IDS 459	IDST 4459	IDS 622	IDST 6622
IDS 460	IDST 3460	IDS 623	IDST 6623
IDS 461	IDST 3461	IDS 640-645	IDST 6640-6645
IDS 462	IDST 3462	IDS 650-655	IDST 6650-6655
IDS 463	IDST 3463	IDS 652	IDST 6652
IDS 464	IDST 4464	IDS 660	IDST 6660
IDS 470	IDST 4470	IDS 690	IDST 6690
IDS 481	IDST 4481	IDS 691	IDST 6691
IDS 500	IDST 4500	IDS 692	IDST 6692

2301.1.(2) Development Theory: Introduction to Development Studies

Prerequisite: one of ANTH 1200.0, ECON 1201.1(.2)/1202.1(.2), POLI 1200.0, SOC 200.0, or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course introduces students to the scope and nature of development studies. It emphasizes theoretical and analytical approaches to the understanding of development, explores the history of the development experience and examines specific problems that confront the developing world. The course draws on insights from various disciplines to explain changing conditions and societies in the developing world.

2302.1.(2) Development Practice: Introduction to Development Studies

Prerequisite: IDST 2301.1(.2).

This course explores the formulation of development policy and how it is applied to development problems through public action. It examines the role of the state and other actors who contribute to the policy-making process and analyzes policy successes and failures.

3325.1.(2) Cross-listed as PHIL 2325.1.(2) Ethical Issues in International Development

3348.1.(2) Cross-listed as RELS 3348.1.(2) Religion and Ecological Issues in the Developing World

3386.1.(2) Cross-listed as SOCI 3386.1.(2) Sociology of Developing Societies

3401.1.(2) Seminar in Development Studies: Conceptual Foundations

Prerequisite: IDST 2301.1(.2) and 2302.1(.2).

This course examines key issues in developing countries such as industrialization and rural change. It explores theoretical and policy questions and analyzes various case studies. In consultation with the instructor, students will select topics, plan research and make presentations related to a research project.

3402.1.(2) Seminar in Development Studies: Contemporary Issues

Prerequisite: IDST 3401.1(.2).

In this course students will research and analyze a selected problem of development in Africa, Asia or Latin America and the Caribbean. Students will read and discuss a common body of readings, present their research findings, including theoretical and policy implications, and write a major research paper.

3403.1.(2) Cross-listed as HIS 3402.1.(2) Aspects of Global History: One Earth, Many Worlds

3424.1.(2) Research Methodology

Basic techniques of research design and qualitative analysis are reviewed and applied to a selected range of development problems.

Note: See IDST 5520.1(.2) described below. Students are advised that they can only obtain credit recognition for this course at one of the two levels at which it is offered.

3460.1.(2) Development Practice

The objective of this experiential learning course is to provide students with an opportunity to link development theory and development practice. This may take many forms, such as acting as a volunteer with an NGO or community-based organizations, pursuing an internship with a multilateral agency, or other forms of University and Program-approved field experience within Canada or overseas.

3461.1.(2) South East Asia: Contemporary Development Issues

Prerequisite: IDST 2301.1(.2)/2302.1(.2) or permission of instructor.

This course explores development issues in the context of South East Asia, focusing on the nation-state and its development strategies, as well as issues of economic and social development. Issues include the emergence of the Newly-Industrializing Countries, the impact of the Asian financial crisis and globalization. The course will begin from the perspective of common colonial roots and identify the current sub-regional models of development. The course will explore current alternative approaches articulated by Asian scholars and grassroots organizations. (This course is cross-listed with Asian studies at the undergraduate level.)

3462.1(.2) Sub-Saharan Africa: Contemporary Development Issues

Prerequisite: IDST 2301.1(.2)/2302.1(.2) or permission of instructor.

This course explores development issues specific to Sub-Saharan Africa, focusing on the nation-state and its development strategies, as well as issues of economic and social development. Issues include the impact of structural adjustment, efforts toward political democratization and the ongoing presence of traditional forms of social organization. The overall objective is to present the dynamic nature of the current policy debates as they are being articulated and challenged by a variety of actors in the region, including African scholars and grassroots organizations.

3463.1(.2) Latin American: Contemporary Development Issues

Prerequisite: IDST 2301.1(.2)/2302.1(.2) or permission of instructor.

This course explores development issues in the context of Latin America, focusing on the nation-state and its development strategies, as well as issues of economic and social development. Issues include the impact of globalization and liberalization, efforts towards political democratization including the role of popular organizations and alternative approaches articulated by Latin American scholars and grassroots organizations. Sub-regional differences will be identified.

3485.1(.2) Cross-listed as SOCI 3385.1(.2) Problems of Development

4420.1(.2) Special Topics in Development Studies

Prerequisite: IDST 2301.1(.2) and 2302.1(.2).

This course will investigate in some depth a particular topic or set of topics in Development Studies. The specific topic(s) will vary from year to year, depending on the availability of visiting scholars, invited research fellows, or the research plans of associated faculty.

4421.1(.2) Special Topics in Development Studies

Prerequisite: IDST 2301.1(.2) and 2302.1(.2).

This course will investigate in some depth a particular topic or set of topics in Development Studies. The specific topic(s) will vary from year to year, depending on the availability of visiting scholars, invited research fellows, or the research plans of associated faculty.

4422.1(.2) [6622.1(.2)] Cross-listed as SOCI 4422.1(.2) Gender and Development: Theory and Method

4423.1(.2) [6623.1(.2)] Cross-listed as SOCI 4423.1(.2) Gender and Development: Policy and Practice

4450.0; 4451.0; 4452.1(.2)-4459.1(.2) Directed Study

Prerequisite: IDST 2301.1(.2) and 2302.1(.2), or permission of Coordinator.

These courses provide an opportunity for students to study, in depth, topics not normally covered by regular course offerings. Students are expected to demonstrate some initiative and independence.

4464.1(.2) Popular Approaches to Development

Prerequisite: IDST 2301.1(.2)/2302.1(.2) or permission of instructor.

This course will examine theoretical debates surrounding the current alternative and people-centered approaches to development and social change. Emphasis is on alternatives articulated by a new civil society or the new social movements in the South including NGOs, community and grassroots organizations, labour groups and others. Issues range from new practices in development based on increased participation by subaltern groups to the more fundamental challenges to national and international structures as they struggle for greater democratization as groups work for economic and political decentralization.

4470.1(.2) [5570.1(.2)] Environment and Development

Prerequisite: IDST 2301.1(.2) and 2302.1(.2), or permission of instructor.

This seminar will explore the implications for world economic development of the rising tide of “environmental problems”, as well as the question of what “economic development” might mean in the context of tackling the growing disruption of the global ecosystem. The importance of a sociological and political-economic analysis of the problems of environmental disruption will be emphasized as the basis for understanding the threat which environmental problems pose for the very existence of human kind and certain patterns of economic development.

4481.0 Cross-listed as SOCI 4481.0 Gender, Ethnicity and Migration

4500.0 Honours Seminar in Development Studies

Prerequisite: IDST 3401.1(.2) and 3402.1(.2).

Students registered in the International Development Studies Honours Program will use this seminar as an on-going forum in which to complete the required honours thesis. Using a sequence of assignments, discussions, and seminar presentations the student will be introduced to the requirements of empirical research and advanced scholarly research writing.

The student’s overall grade for this seminar will be the average of the thesis grade (provided by the thesis advisor) and the seminar instructor’s grade for honours seminar participation (minimum of B+).

Master of Arts in International Development Studies

Detailed requirements for the Master of Arts in International Development Studies are found in Section 3 of this *Calendar*.

Graduate courses are available to students registered in the Masters degree or Graduate Diploma programs. Other students must have approval of the IDST Coordinator.

5525.1(.2) [6625.1(.2)] Cross-listed as PHIL 4525.1(.2) [6625.1(.2)] International Justice

5530.1(.2) [6630.1(.2)] Contemporary Development Planning

See IDST 6630.1(.2) described below.

5540.1(.2)-5542.1(.2) Special Topics in International Development

These courses will investigate in some depth a particular topic or set of topics in international development. Specific topics will depend on availability of visiting scholars, invited speakers and research plans of associated faculty.

5543.1(.2) Conceptual Foundations

See IDST 4401.1(.2): Dynamics of Development: Framework of Analysis and Practice, described above.

5544.1(.2) Issues of Theory and Practice

See IDST 4402.1(.2): Dynamics of Development: Critical Issues, described above.

5550.1(.2)-5555.1(.2) Directed Readings

These courses provide an opportunity for students to pursue in depth topics not normally covered by regular course offerings. Students are expected to demonstrate some initiative and independence.

5560.1(.2) [6660.1(.2)] Field Research in Development

See IDST 6660.1(.2) described below.

5561.1(.2) South East Asia: Contemporary Development Issues

See IDST 3461.1(.2) described above.

5562.1(.2) Sub-Saharan Africa: Contemporary Development Issues

See IDST 3462.1(.2) described above.

5563.1(.2) Latin America: Contemporary Development Issues

See IDST 3463.1(.2) described above.

5564.1(.2) Popular Approaches to Development

See IDST 4464.1(.2) described above.

5570.1(.2) Environment and Development

See IDST 4470.1(.2) described above.

6601.1(.2) Dynamics of Development: Framework of Analysis and Practice

This seminar course will review and critically examine the major schools of development thinking and modes of practice. The basic assumptions, central concepts, theoretical propositions and public policy or political implications of each approach will be critically examined and placed in their historical context.

6602.1(.2) Dynamics of Development: Critical Issues

Prerequisite: IDST 6601.1(.2).

The major theoretical and policy debates that surround major problems of development will be critically examined. With reference to issues addressed in IDST 601.1(.2) each student will review the literature and present a seminar on the critical issues involved in a defined field or area of research. If possible this field should be defined with reference to a proposed thesis to be submitted in completion of requirements for the degree.

6620.1(.2) Advanced Research Methods

This course in advanced qualitative research methods is designed to provide students with the tools needed to select the appropriate methodological approach and techniques for the study of development issues. From time to time, depending on the student interest and faculty availability, this course will treat issues raised in historical, comparative, observational and other methods, as well as general questions of research design, data gathering and analysis.

6622.1(.2) Cross-listed as SOCI 4422.1(.2) Gender and Development: Theory and Method

6623.1(.2) Cross-listed as SOCI 4423.1(.2) Gender and Development: Policy and Practice

6640.1(.2)-6645.1(.2) Special Topics in International Development

These courses will investigate in some depth a particular topic or set of topics in international development. Specific topics will depend on availability of visiting scholars, invited speakers and research plans of associated faculty.

6650.1(.2)-6655.1(.2) Directed Readings

These courses provide an opportunity for students to pursue in depth topics not normally covered by regular course offerings. Students are expected to demonstrate some initiative and independence.

6660.1(.2) Field Research in Development

This course will provide an opportunity for students to pursue a supervised research program in the field. The research and project report must be approved by the IDST Coordinator.

6661.1(.2) South East Asia: Contemporary Development Issues

See IDST 3461.1(.2) described above.

6662.1(.2) Sub-Saharan Africa: Contemporary Development Issues

See IDST 3462.1(.2) described above.

6663.1.(2) Latin America: Contemporary Development Issues

See IDST 3463.1.(2) described above.

6664.1.(2) Popular Approaches to Development

See IDST 4464.1.(2) described above.

6690.0 Thesis Research

Prerequisite: enrolment in the Master of Arts, International Development Studies.

Students will engage in the research and writing of a thesis under supervision of a thesis committee. The student must satisfy the supervisor that thesis research and all other methodological and disciplinary preparation for the successful handling of the thesis topic have been completed. Supervisors may require a demonstration of language competence or extra course work as preparation for the treatment of certain thesis topics. Students will publicly defend their thesis, following which a final grade will be determined by the thesis committee.

6692.1.(2) Thesis Design

This seminar serves as a forum for addressing the common challenges of writing a thesis research document. General thesis structure, the nature of a literature review, the construction of a research protocol, the nature of the thesis discussion, and the identification of the central issues particular to the thesis problematic will all be discussed in an atmosphere of seminar presentations, constructive peer assessment and instructor-led discussions.

Irish Studies (IRST)

Program Committee on Irish Studies

P. Ó Siadhail, Coordinator	Irish Studies
C. Byrne, Professor Emeritus	English
A. Dobrowsky	Political Science
M. Harry	English
S. Kennedy	English
J. Reid	History
B. Robinson	Geography
A. Seaman	English
R. Twomey	History
M. Vance	History

The D'Arcy McGee Chair of Irish Studies was established at Saint Mary's University by Dr. Cyril J. Byrne in the spring of 1986 to form a focal point for the study of all aspects of Irish and Irish-Canadian culture, particularly language, literature, history, political science and folklore. Saint Mary's is the only University in Canada where you can complete an undergraduate degree in Irish Studies.

The Major Program

To obtain a major in Irish Studies, forty-two (42) credit hours are required, including:

IRST 1201.1.(2) An Introduction to Modern Irish
 IRST 1202.1.(2) Modern Irish Language
 IRST 2325.1.(2) Intermediate Irish I
 IRST 2326.1.(2) Intermediate Irish II
 IRST 3400.0 Irish Studies Seminar

Plus twenty-four (24) credit hours, twelve (12) credit hours of which must be at the 3000 level and approved by the Coordinator of Irish studies.

The Minor Program

The following program constitutes a minor in Irish Studies according to the "Requirements for the Degree of Bachelor of Arts" as stated above in Section 3:

IRST 1201.1.(2) An Introduction to Modern Irish
 IRST 1202.1.(2) Modern Irish Language
 Plus eighteen (18) credit hours approved by the Coordinator of Irish Studies.

The Concentration Program

To obtain a concentration in Irish Studies in partial fulfillment of the B.A. General degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours), a minimum of twenty-four (24) credit hours in IRST is required; also a minimum cumulative grade point average of 2.00. Further details are available from the coordinator.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, IRST 1201.1.(2) was formerly IRS 201.1.(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE

ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
IRS 201	IRST 1201	IRS 380	IRST 2380
IRS 202	IRST 1202	IRS 388	IRST 2388
IRS 203	IRST 1203	IRS 389	IRST 2389
IRS 204	IRST 1204	IRS 390	IRST 2390
IRS 215	IRST 1215	IRS 391	IRST 2391
IRS 216	IRST 1216	IRS 395	IRST 2395
IRS 305	IRST 2305	IRS 400	IRST 3400
IRS 306	IRST 2306	IRS 401	IRST 3401
IRS 307	IRST 2307	IRS 402	IRST 3402
IRS 308	IRST 2308	IRS 407	IRST 3407
IRS 310	IRST 2310	IRS 408	IRST 3408
IRS 325	IRST 2325	IRS 430	IRST 3430
IRS 326	IRST 2326	IRS 450	IRST 3450
IRS 327	IRST 2327	IRS 451	IRST 3451
IRS 328	IRST 2328	IRS 452	IRST 3452
IRS 334	IRST 2334	IRS 453	IRST 3453
IRS 340	IRST 2340	IRS 455	IRST 3455
IRS 346	IRST 2346	IRS 457	IRST 3457
IRS 350	IRST 2350	IRS 441	IRST 4441
IRS 375	IRST 2375	IRS 443	IRST 4443
		IRS 525	IRST 5525

1201.1.(2) An Introduction to Modern Irish

This course will introduce students to Modern Irish, with emphasis on the spoken and written forms.

1202.1.(2) Modern Irish Language

Prerequisite: IRST 1201.1.(2) or permission of instructor.

This course will develop the student's ability to speak, write and read Modern Irish.

1203.1.(2) Scottish Gaelic – Introductory I

This course gives the student an introduction to the structure and use of Scottish Gaelic in a Nova Scotia context. Topics covered include grammar and conversation basics, traditional and new Gaelic songs, and conversation aimed at specific social occasions and locations.

1204.1.(2) Scottish Gaelic – Introductory II

Prerequisite: IRST 1203.1.(2).

This course gives the student a continuation of the introduction to the structure and use of Scottish Gaelic in a Nova Scotia context. Topics covered include grammar and conversation basics, traditional and new Gaelic songs, and conversation aimed at specific occasions and locations.

1215.1.(2) Ireland: An Introduction

This course provides a general survey of the history and culture of Ireland. Students will examine a range of areas, including literature, language, politics and history. While this course will be of interest to those who intend to concentrate on Irish Studies at Major and Minor levels, it will also be of benefit to others who wish to broaden their understanding and knowledge of Ireland past and present.

1216.1.(2) Ireland: Culture and Society

This course, which complements IRST 1215.1.(2), seeks to expand students' understanding of the complexity of the Irish experience. Areas covered in this course include: Women in Ireland; the Irish abroad (with special emphasis on the Irish in Canada); Ireland in a European context; the Celtic Tiger; Northern Ireland in the post-Belfast Agreement period; sport in Ireland; and the Irish and film. This survey is aimed at both Irish Studies students and those who have a general interest in Ireland.

2305.1.(2) An Introduction to Mediaeval Welsh Language

Mediaeval Welsh, a P-Celt language, is a valuable tool in the study of the Celtic tradition, giving the student an insight into the non-Gaelic mediaeval cultures of Wales and southern Scotland, and the related culture of Brittany.

2306.1.(2) An Introduction to Mediaeval Welsh Literature

Prerequisite: IRST 2305.1.(2) or permission of instructor.

This course will introduce students to the literature of the most important of the non-Gaelic Celtic languages, Welsh. Of the group of P-Celt languages, Welsh is the only one with a large extant collection of early and mediaeval literature. The traditions, motifs and metaphors of such works as *The Gododdin* and *The Four Branches of the Mabinogi* are very similar to those of Gaelic (Irish and Scottish) literature. Where they differ, is largely as a result of early contact with Anglo-Norman culture. A study of Welsh literature, therefore, leads to an enhanced understanding of the Celtic identity.

2307.0 Celtic Literature and Atlantic Canada

This course will focus on the following themes: the nature of traditional oral and written Celtic literature, aspects of the history of Celtic scholarship, the literary response to the changes in British and European Celtic culture leading to the emigrations in the 18th and 19th centuries, the survival of the Gaelic language and Gaelic culture in Newfoundland and the Maritimes into the 20th century, and the Irish, Scottish and Welsh contributions to the literary arts in the Atlantic Provinces.

2308.0 Irish-Canadian Literature

This course will examine writers of Irish and Irish-Canadian background who have made significant literary contributions in Canada. The first semester will deal with early emigrant poets like Donnchadh Ruadh MacConmara and Standish O'Grady, with Canadian folk poets in the Irish tradition such as Lawrence Doyle, Larry Gorman, and Johnny Burke, with figures like Thomas D'Arcy McGee, Mary Ann Sadlier and Cornelius O'Brien, and with the image of the Irish in Canadian literature. The second semester, focusing on the 20th century, will treat authors like Morley Callaghan, Leo Kennedy, Margaret Duley, Edward McCourt, Sheila Watson, Brian Moore, Harry Boyle, Dennis Patrick Sears, Alden Nowlan, Leo Simpson and George McWhirter.

2310.0 Introduction to Old Irish

Prerequisite: six (6) credit hours in another Celtic language.

An introduction to Classical Old Irish with grammar and readings.

2325.1(2) Intermediate Irish I

Prerequisite: IRST 1201.1(2) and 1202.1(2).

A continuation of elementary Irish, with emphasis placed on students attaining a firm grasp of spoken Irish. In addition, students will continue their study of the history and development of the Irish language.

2326.1(2) Intermediate Irish II

Prerequisite: IRST 2325.1(2) or permission of instructor.

Building upon the skills acquired while studying elementary Irish and Intermediate Irish I, students will concentrate on refining their command of the Irish language. A variety of aural sources and written texts will be used.

2327.1(2) Scottish Gaelic – Intermediate I

Prerequisite: IRST 1203.1(2) and 1204.1(2).

This course gives the student an opportunity to advance from the introductory level in a structured environment. Topics covered include a review of grammar and conversation basics. Time will be spent on composition of short stories, translation of written and recorded Gaelic, traditional and new Gaelic songs, and poetry and conversation aimed at specific social occasions and locations.

2328.1(2) Scottish Gaelic – Intermediate II

Prerequisite: IRST 2327.1(2) or equivalent.

This course gives the student an opportunity to advance from the introductory level in a structured environment. Topics covered include a review of grammar and conversation basics. Time will be spent on composition of short stories, translation of written and recorded Gaelic, traditional and new Gaelic songs, and poetry and conversation aimed at specific social occasions and locations.

2334.0 Cross-listed as ENGL 2334.0 The Literature of Modern Ireland**2340.1(2) The Early Christian Church in Britain and Ireland**

[ANTH 3341.1(2)]

This course proposes to examine the development of Christianity in the British Isles from its inception in Roman Britain, through the establishment of a 'Celtic' church in Wales, Scotland and Northern England, to the eventual conversion of the people of Ireland. The course will focus on the historical and archaeological remains which made up the early-Christian landscape of the 4th through the 11th centuries.

2346.1(2) A Sociolinguistic History of Ireland

[LING 2346.1(2)]

Prerequisite: at least six (6) credit hours in Irish Studies, Linguistics, English, or History.

This course charts the history and development of language in Ireland from earliest times to the present. Students learn about the origins and growth of Irish, the influence on it of Latin, Norse and English, and the emergence of Hiberno-English. A series of texts which demonstrate the changing linguistic landscape of Ireland and the interrelationship of languages are considered.

2350.1(2) The Irish Musical Tradition

A survey of Irish folk music from pre-Christian times to the twentieth century. Areas under investigation shall include folk music as it relates to the wider background of Irish history; folk instruments; song-airs and singers; the structure and ornamentation of Irish folk music; and the role of Irish folk music in its nation's current musical scene. A knowledge of musical notation and terminology is not a prerequisite.

2379.1(2) Irish Material Culture

[ANTH 2379.1(2)]

This course introduces students to the landscapes of Ireland. Areas under investigation will include land use, field patterns, housing, fishing, rural industry, and household and agricultural implements. Attention will be given to the different circumstances and life styles of people living in offshore islands and in isolated farms, villages, towns and cities. Consideration will also be given to efforts to preserve the past in the form of folk museums.

2380.1(2) Scottish Material Culture

This course introduces students to the landscapes of Scotland past and present. Areas under investigation will include land use, agricultural patterns, housing, rural and urban industry, and household and agricultural implements. Attention will be given to the changing circumstances and life styles of people living in the highlands and islands and their conditions after moving to the lowlands, towns and cities. The importance of the contribution of the sea routes between Scotland and Ireland to material culture will also be examined. Consideration will also be given to the efforts to preserve the past in the form of museums.

2390.1(2) Reading Course in Irish Studies: Selected Readings on Contemporary Ireland

The emphasis in this course will be on the political and social movements which led to the present Republic of Ireland. The politics of repeal, the Home Rule movement, the growth of extreme republicanism and the transition to independence will be included.

2391.1(2) Cross-listed as GEOG 2390.1(2) Geography of Ireland**2395.0 Cross-listed as HIST 2395.0 Ireland, 1600-1985: From the Plantations to the "Troubles"****3400.0 Irish Studies Seminar**

Prerequisite: at least six (6) credit hours in Irish Studies

This interdisciplinary course will allow students to consider a selection of topics relating to the Irish experience at home and abroad. Availing of the expertise of internal and external guest speakers, areas of study will include post-colonial Ireland; Ireland in a contemporary European context; language and culture; Northern Ireland; contemporary literature in Irish and English; the Irish contribution to Canada; and sources for the study of the history of the Irish in Canada. Topics for discussion will be chosen by the instructor. Students will be required to research and write papers on selected topics and to present them to the seminar for discussion.

3401.1(2) Advanced Modern Irish I

Prerequisite: IRST 2326.1(2) or permission of instructor.

This course will deal with modern spoken and written Irish, with emphasis on acquiring a facility in spoken Irish.

3402.1(2) Advanced Modern Irish II

Prerequisite: IRST 3401.1(2).

This is an intensive course designed to develop further the student's ability to speak and write modern Irish.

3407.1(2) The Recovery of the Gaelic Past

Prerequisite: IRST 1202.1(2) and a minimum grade of C in ENGL 1205.1(2).

This course will trace the process by which the Anglo-Irish discovered and translated the Gaelic literary heritage. It will examine, among other things, the publication of James MacPherson's fraudulent Ossian poems and the work of scholars and translators such as Charles O'Connor, Charlotte Brooke, John O'Donovan and Eugene Curry. The course will also look at English reaction to these developments as reflected in Matthew Arnold's "On the Study of Celtic Literature".

3408.1(2) The Romantic Popularization of the Gaelic Past

Prerequisite: IRST 1202.1(2) and a minimum grade of C in ENGL 1205.1(2).

This course will look at the process by which the new awareness of the Gaelic literary heritage fostered by the efforts of the scholars was exploited by the 19th century creative writers in Ireland. The focus of the course will be on the work and careers of writers such as James Hardiman, James Clarence Mangan and Samuel Ferguson, as well as on Charlotte Brooke, who begins the process, and Standish James O'Grady, whose work marks its end.

A comprehensive study of folklore in Ireland. All aspects of folklore will be examined, with special emphasis on the storytelling, song, and folk drama traditions.

3430.1(2) Irish Folklore

Prerequisite: at least six (6) credit hours in Irish Studies, Linguistics, English, or Anthropology.

A comprehensive study of folklore in Ireland. All aspects of folklore will be examined, with special emphasis on the storytelling, song, and folk drama traditions.

3450.1(2) Modern Gaelic Literature in Translation

Prerequisite: at least six (6) credit hours in Irish Studies.

This course will cover works in translation by prominent 20th century writers in Irish. Emphasis will be placed on the plays of Douglas Hyde, the prose writings of Pádraic Ó Conaire, Máirtín Ó Cadhain, the Blasket Island writers and modern Gaelic poetry.

3451.1(2) Special Topics in Irish Studies

Prerequisite: permission of Coordinator of the Irish Studies Program.

This course will investigate in depth a specific topic or set of topics in Irish Studies. The topic will vary from year to year.

3452.1(2) Cross-listed as ENGL 3452.1(2) Irish Drama to the End of the 19th Century**3453.2(1) Cross-listed as ENGL 3453.1(2) Irish Drama in the 20th Century****3455.1(2) Gaelic Literature in Translation, 1600-1800**

Prerequisite: permission of instructor.

Beginning with an overview of the state of and tensions within Gaelic Ireland, this course will examine the range and preoccupations of Gaelic literature during that period, 1600-1800. Emphasis will be placed on the *aisling*, the political poetry of the 18th century, and on satirical and comic writings, both prose and poetry, including Brian Merriman's *Cúirt an Mheon-Oíche* (The Midnight Court) and the anonymous *Pairlement Chloinne Tomáis*.

3457.0 Cross-listed as POL 457.0 Politics and Government in Ireland

4441.1(.2) Cross-listed as ENGL 4441.1(.2) The Irish Short Story

4443.1(.2) Cross-listed as ENGL 4443.1(.2) Irish Poetry

5525.0 Cross-listed as HIST 5525.0 Seminar in Irish and Scottish Immigration

Linguistics (LING)

Programs and courses in Linguistics are administered by the Linguistics Coordinator.

Coordinators

Saint Mary's University: E. Asp, English
 Dalhousie University: Jasmina Milicevic, French
 Mount Saint Vincent University: M.-L.Tarpent,
 Modern Languages

Committee on Linguistics

Saint Mary's University:
 E. Asp Coordinator of Linguistics
 English
 C. Beaudoin-Lietz Linguistics, Anthropology
 E. Enns Dean of Arts; Modern
 Languages and Classics
 English
 M. Harry Teaching English as a Second
 Language
 M. Sargent Irish Studies
 P. Ó Siadhail Anthropology
 S. Tulloch

Halifax Interuniversity Program in Linguistics

Three Halifax area universities – Saint Mary's, Dalhousie, and Mount Saint Vincent – offer honours, majors and minors in linguistics in undergraduate degree programs. Students enrolled in a linguistics program can take classes from the three universities to fulfil degree requirements.

An undergraduate degree in linguistics provides opportunities to study the formal, functional and systemic nature of language and languages as both social and cognitive phenomena. Although a discipline in its own right, linguistics has cognate relationships with a wide array of disciplines, suggested by the interdisciplinary nature of many of the courses in the program. Faculty members from Anthropology, English, French, Russian, Political Science, Philosophy, Psychology, Sociology, and other disciplines participate.

Certificate in Linguistics

The Certificate in Linguistics provides an opportunity to explore the structure and function of languages and how their systematic nature makes human communication possible. The Certificate in Linguistics is designed to provide a foundation in linguistics to complement study in related fields, such as language teaching, anthropology, sociology, business, and computer studies.

The program consists of thirty (30) credit hours and is intended primarily for students already holding degrees in any discipline.

Admission

Admission to the certificate program requires a formal application for admission. Students taking the certificate while completing a bachelor's degree must obtain official

approval of the Coordinator for Linguistics. Students majoring in linguistics at Saint Mary's University are **not** eligible for this program. Fifteen (15) of the thirty (30) credit hours must be completed at Saint Mary's University.

Program Courses

All students are required to take LING 1200.0. They must also select six (6) credit hours from the following courses: LING 2310.1(.2); LING 2320.1(.2); LING 2330.1(.2); LING 2340.1(.2). The remaining eighteen (18) credit hours are to be selected from the inter-department offerings listed in the linguistics section of this *Calendar* (subsection d). One of these courses must be at the 3000 level. With the permission of the Coordinator for Linguistics, one of these three courses can be other than a linguistics course. Typically, this course would be one suitable for the student's objectives, such as an upper level class in a second language, formal logic or computing studies.

Requirements

A minimum cumulative quality point average of 2.00 in this Certificate Program is required for graduation.

Teacher Certification

In September 2002, the Provincial Department of Education's Minister's Advisory Committee on Teacher Certification approved the Certificate in Linguistics program in general for teacher certification purposes. Any teacher interested in pursuing this certificate program for teacher certification purposes **must** request individual approval of this Program from the Registrar – Teacher Certification **prior** to registration in this program.

Honours in Linguistics

An honours degree requires a minimum of sixty (60) credit hours including:

a. The following eighteen (18) credit hours:

LING 1200.0 Introduction to Linguistics
 LING 2310.1(.2) Phonology
 LING 2320.1(.2) Morphology
 LING 2330.1(.2) Syntax
 LING 2340.1(.2) Semantics

b. Six (6) credit hours selected with the advice of the program coordinator

c. Six (6) credit hours at or above the 2000 level in a language other than English

d. Thirty (30) credit hours selected from those specified in subsection (d) below for the major

Major in Linguistics

A major in linguistics requires a minimum of thirty-six (36) credit hours, including:

a. Six (6) credit hours: Introduction to Linguistics. [either LING 1200.0 at Saint Mary's University or FREN 3020R at Dalhousie University or LING 2251.1(.2)/ 2252.1(.2) at Mount Saint Vincent University]

b. Six (6) credit hours from the following Saint Mary's University half credit courses:

LING 2310.1(.2) Phonology
 LING 2320.1(.2) Morphology
 LING 2330.1(.2) Syntax
 LING 2340.1(.2) Semantics

c. Six (6) credit hours selected with the advice of the program coordinator

d. Eighteen (18) credit hours from approved courses at Saint Mary's University as well as courses described in the *Academic Calendars* of Dalhousie and Mount Saint Vincent Universities.

Saint Mary's University courses:

ANTH 1290.1(.2) Introduction to Human Communication
 ANTH 3395.1(.2) Language Use and Issues in Northern Canada
 ANTH 2391.1(.2) Linguistic Anthropology
 ANTH 2392.1(.2) Language, Culture and Society
 ANTH 3396.1(.2) Language Use and Issues in Southern Canada
 ANTH 4491.1(.2) Ethnography of Communication
 ANTH 4492.1(.2) Anthropological Analysis of Linguistic Communities
 ENGL 2308.1(.2) Development of English Prose Style from 1500
 ENGL 2311.1(.2) Modern English Language
 ENGL 2326.1(.2) Language and Gender
 ENGL 3312.1(.2) Canadian English

ENGL 3402.0 History of the English Language
 ENGL 3427.1(.2) Language, Gender, and Power
 ENGL 4490.0 Discourse Analysis
 FREN 3305.1(.2) Acadian Language and Culture
 FREN 3320.1(.2) French Phonetics
 FREN 3340.1(.2) Linguistic Study of French
 FREN 4440.1(.2) Canadian French: Sociolinguistic Perspectives
 IRST 2346.1(.2) A Sociolinguistic History of Ireland
 LING 4410.1(.2) Directed Reading in Linguistics I
 LING 4411.1(.2) Directed Reading in Linguistics II
 LING 3431.1(.2) Special Topics in Linguistics I
 LING 4432.1(.2) Special Topics in Linguistics II
 PHIL 3402.1(.2) Philosophy of Language: Meaning
 PHIL 3403.1(.2) Philosophy of Language: Speech Acts
 SOCI 3388.1(.2) Language Change and Social Change
 SOCI 3339.1(.2) The Sociology of Language
 SOCI 3366.1(.2) Field Methods in Sociolinguistics I
 SOCI 3367.1(.2) Field Methods in Sociolinguistics II
 SOCI 4417.0 Seminar on Endangered Languages

Minor in Linguistics

A minor in linguistics requires a minimum of twenty-four (24) credit hours in linguistics including:

a. LING 1200.0, Introduction to Linguistics

b. eighteen (18) credit hours at the 2000 level or above at Saint Mary's University or the 2000 level or above at Mount Saint Vincent and Dalhousie Universities. The appropriate Saint Mary's courses are delineated above in subsections (b) and (d) of the requirements for the major. Dalhousie and Mount Saint Vincent Universities courses are described in the *Academic Calendars* of those institutions. The program coordinators can also be consulted.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, LING 1200.1(.2) was formerly LIN 200.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
LIN 200	LING 1200	LIN 391	LING 2391
LIN 305	LING 2305	LIN 392	LING 2392
LIN 308	LING 2308	LIN 395	LING 3395
LIN 310	LING 2310	LIN 396	LING 3396
LIN 311	LING 2311	LIN 402	LING 3402
LIN 312	LING 3312	LIN 410	LING 4410
LIN 320	LING 2320	LIN 411	LING 4411
LIN 321	LING 2321	LIN 417	LING 4417
LIN 326	LING 2326	LIN 427	LING 3427
LIN 330	LING 2330	LIN 431	LING 3431
LIN 338	LING 2338	LIN 432	LING 4432
LIN 339	LING 2339	LIN 440	LING 4440
LIN 340	LING 2340	LIN 490	LING 4490
LIN 341	LING 2341	LIN 491	LING 4491
LIN 346	LING 2346	LIN 492	LING 4492
LIN 366	LING 3366	LIN 500	LING 4500
LIN 367	LING 3367		

1200.0 Introduction to Linguistic Analysis

Natural languages are systematic and this course will examine how this fact makes human communication possible. An introduction to modern methods of linguistic analysis, the course will enable students to understand the structure of their own language and to compare it with other languages. By familiarizing them with the basic concepts of linguistics, the course will prepare students for more advanced or specialized courses in this area.

2305.1(2) Cross-listed as FREN 3305.1(2) Acadian Language and Culture**2308.1(2) Cross-listed as ENGL 2308.1(2) Development of English Prose Style****2310.1(2) Phonology**

Prerequisite: LING 1200.0 or another six (6) credit hours from the listed courses in Linguistics.

Phonology is the study of the sound patterns of language. The course describes how speech sounds are produced and perceived, how they are used in spoken language, and how we can record them using symbolic notation. The universal principles by which sounds are organized in language through phonological rule systems are examined, as well as the processes which account for language-specific diversity.

2311.1(2) Cross-listed as ENGL 2311.1(2) Modern English Language**2320.1(2) Morphology**

Prerequisite: LING 1200.0 or another six (6) credit hours from the listed courses in Linguistics.

Morphology is the study of word formation and structure. The course examines how words are made up of smaller, meaningful elements. Processes of word formation such as derivation and compounding are analyzed: how roots combine with other elements to form larger units. The course also discusses the manner in which morphology

relates to the other components of language: phonology, the lexicon and syntax.

2321.1(2) Cross-listed as FREN 3320.1(2) French Phonetics**2326.1(2) Cross-listed as ENGL 2326.1(2) Language and Gender****2330.1(2) Syntax**

Prerequisite: LING 1200.0 or another six (6) credit hours from the listed courses in Linguistics.

Syntax is the study of sentence structure: how words are organized into larger meaningful units. The course examines the nature of speakers' underlying knowledge of the rules for combining words into higher-order structures. Students will learn how complex sentence patterns can be reduced to simpler forms and will be introduced to the principles of transformation which form part of linguistic competence. The fundamental similarities in sentence patterning among different languages will be addressed.

2338.1(2) Cross-listed as SOCI 3338.1(2) Language Change and Social Change**2339.1(2) Cross-listed as SOCI 3339.1(2) The Sociology of Language****2340.1(2) Semantics**

Prerequisite: LING 1200.0 or another six (6) credit hours from the listed courses in Linguistics.

This course analyzes how words and sentences convey meaning in language. Students will learn how lexical items can be represented in terms of their semantic components and how interrelated groups of words form semantic fields. At the sentence level, grammatical, pragmatic and logical aspects of meaning are introduced. The course also explores idiomatic expressions and the ubiquity of metaphor.

2341.1(2) Cross-listed as FREN 3340.1(2) Linguistic Study of French**2346.1(2) Cross-listed as IRST 2346.1(2) A Sociolinguistic History of Ireland****2391.1(2) Cross-listed as ANTH 2391.1(2) Linguistic Anthropology****2392.1(2) Cross-listed as ANTH 2392.1(2) Language, Culture and Society****3312.1 (2) Cross-listed as ENGL 3312.1 (2) Canadian English****3366.1(2) Cross-listed as SOCI 3366.1(2) Field Methods in Sociolinguistics I****3367.1(2) Cross-listed as SOCI 3367.1(2) Field Methods in Sociolinguistics II**

3395.1(2) Cross-listed as ANTH 3395.1(2) Language Use and Issues in Northern Canada

3396.1(2) Cross-listed as ANTH 3396.1(2) Language Use and Issues in Southern Canada

3402.0 Cross-listed as ENGL 3402.0 History of the English Language

3427.1(2) Cross-listed as ENGL 4427.1(2) Language, Gender and Power

3431.1(2) – 4432.1(2) Special Topics in Linguistics
Prerequisite: at least eighteen (18) credit hours in LING.

This course allows students to study a special topic at an advanced level. Such topics will either (a) not be covered by other LING courses or (b) handle the subject matter in alternative models.

Seminar: 3 hrs. a week. 1 semester.

4410.1(2) Directed Readings in Linguistics I

4411.1(2) Directed Readings in Linguistics II

These courses provide the opportunity to study a particular subject(s) in detail. They are designed to examine at an advanced level topics not covered in other linguistics courses or in courses cross-listed as linguistics courses, or to allow for a different approach to the study of topics already covered in other courses.

4417.0 Cross-listed as SOCI 4417.0 Seminar in Endangered Languages

4440.1(2) Cross-listed as FREN 4440.1(2) Canadian French: Sociolinguistic Perspective

4490.0 Cross-listed as ENGL 4490.0 Discourse Analysis

491.1(2) Cross-listed as ANTH 4491.1(2) Ethnography of Communication

4492.1(2) Cross-listed as ANTH 4492.1(2) Anthropological Analysis of Linguistic Communities

4500.0 Honours Thesis

Prerequisite: honours standing in Linguistics.

Supervised preparation of a significant research paper for honours students in linguistics.

Management (MGMT)

Chairperson,	J. Haiven
Associate Professor	J. Chamard, H. Das,
Professors	P. Fitzgerald, K. Kelloway, A. Mills, S. Pendse, T. Wagar
Associate Professors	C. Driscoll, L. Haiven, R. Summers, D. Wicks
Assistant Professors	E. Farrell
Lecturer	J. Helms-Mills, C. Holmvall
Canada Research Chair	S. Hayibor
Professor Emeriti	C. Loughlin J. Badawi, H. Schwind

The Department of Management offers four programs for majors:

- * Global Business Management
- * Human Resource Management and Industrial Relations
- * Management
- * Small Business and Entrepreneurship

Details on the requirements for each of these majors are delineated in the following paragraphs.

In September 1998 a Certificate in Human Resource Management with a Management option (HRMC) or a Psychology option (HRMP) was introduced. Details for those two programs are delineated in this section and in the Psychology subsection below (HRMP).

In addition to meeting the general requirements for the Bachelor of Commerce degree, the following courses are required for each of these programs.

Human Resource Management and Industrial Relations Major

Year 3

ACCT 3332.1(2) Planning and Control
ECON 3340.1(2) Human Resource Economics
FINA 2360.1(2) Business Finance I
FINA 3361.1(2) Business Finance II
MGMT 3480.1(2) Ethical Responsibilities of Organizations
MGMT 3385.1(2) Human Resource Management
MGMT 3386.1(2) Industrial Relations
MGMT 4482.1(2) Staffing & Selection
six (6) credit hours in free electives

Year 4

MGMT 4483.1(2) Management Skills I
MGMT 4485.1(2) Wage and Salary Administration
MGMT 4486.1(2) Training and Development
MGMT 4489.1(2) Strategic Management
twelve (12) credit hours in non-Commerce electives
six (6) credit hours in free electives

Note: If ECON 3340 was used to satisfy the Economics elective requirement in year 2, then the number of free electives is increased to nine (9) credit hours.

Management Major**Year 3**

ACCT 3332.1(.2) Planning and Control
 FINA 2360.1(.2) Business Finance I
 FINA 3361.1(.2) Business Finance II
 MGSC 3317.1(.2) Operations Management
 MGMT 3480.2 (.2) Ethical Responsibilities of Organizations
 three (3) credit hours in Accounting electives
 six (6) credit hours in Marketing electives
 three (3) credit hours in Commerce electives
 three (3) credit hours in free electives

Year 4

MGMT 3385.1(.2) Human Resource Management
 MGMT 3386.1(.2) Industrial Relations?
 MGMT 4481.1(.2) Organization Theory: Structure, Process, Analysis and Design
 MGMT 4489.1(.2) Strategic Management
 three (3) credit hours in Finance electives
 twelve (12) credit hours in non-Commerce electives
 three (3) credit hours in free electives

Small Business and Entrepreneurship**Major****Year 3**

ACCT 3332.1(.2) Planning and Control
 FINA 2360.1(.2) Business Finance I
 FINA 3361.1 (.2) Business Finance II
 MGMT 3389.1(.2) Structuring the Start-Up
 MGMT 3480.1(.2) Ethical Responsibilities of Organizations
 MGMT 4494.1(.2) Entrepreneurship: Theories and Concepts
 six (6) credit hours in non-Commerce electives
 six (6) credit hours in free electives

Year 4

MGMT 2380.1(.2) Family Business
 MGMT 4487.1(.2) Small Business Opportunities
 MGMT 4489.1(.2) Strategic Management
 MGMT 4495.1(.2) Small Business Performance Improvement
 six (6) credit hours in non-Commerce electives
 twelve (12) credit hours in free electives

Global Business Management Major

Complete details on this major are described in the “Global Business Management” entry in Section 5 of this *Calendar*. This program is administered by the Department of Management.

Year 3

ACCT 3332.1(.2) Planning and Control
 ACCT 3357.1(.2) International Accounting
 FINA 2360.1(.2) Business Finance I
 FINA 3361.1(.2) Business Finance II
 MGMT 3480.1(.2) Ethical Responsibilities of Organizations
 MKTG 3375.1(.2) International Marketing
 six (6) credit hours in Modern Language (except English) electives [Arabic, Chinese, French, German, Italian, Japanese, or Spanish] – see note (i) below

six (6) credit hours in Geographic electives – see note (ii) below

Year 4

FINA 4476.1(.2) International Finance
 MGMT 4488.1(.2) International Business Management
 MGMT 4489.1(.2) Strategic Management
 six (6) credit hours in Modern Language (except English) electives [Chinese, French, German, Italian, Japanese, or Spanish] – see note (iii) below
 six (6) credit hours in Geographic electives – see note (iv) below
 six (6) credit hours in International electives – see note (v) below
 three (3) credit hours in free electives

Notes:

- (i) If the non-Commerce elective in Year 1 was a Modern Language, then this requirement can be replaced with six (6) credit hours in free electives.
- (ii) Six (6) credit hours in electives must be selected from one and only one of the following regions: Africa, Americas, Asia, or Europe. Approved courses for each region are listed in the entry “Global Business Management” in Section 5 of this *Calendar*.
- (iii) Credit must be in the same language as Year 3 language credit.
- (iv) six (6) credit hours in electives must be selected from the approved list of cognate electives found in the “Global Business Management” entry in Section 5 of this *Calendar*. If ECON 3310.1(.2), ECON 3312.1(.2), ECON 3315.1(.2), ECON 3365.1(.2), ECON 4410.1(.2), ECON 4412.1(.2), ECON 4413.1(.2), or ECON 4414.1(.2) were used to satisfy the Economics elective(s) in Year 2, the number of free electives at the 1000 level or above is increased by three (3) credit hours or six (6) credit hours as appropriate.
- (v) In cases where a student is fluent in two languages, other courses relevant to the major may be substituted for the language credits, with the approval of the Program Coordinator.
- (vi) Notwithstanding the course substitutions possible in (i), (iv), and (v) above, all students must complete at least twenty-four (24) credit hours in non-Commerce electives.

Certificates in Human Resource Management

Saint Mary’s provides a series of courses to fulfill the requirements for a certificate program in human resource management with either a Management option or a Management and Psychology option. These Certificate programs are beneficial to both individuals currently working in the human resources departments and those who wish to prepare themselves for a career in the field.

To obtain a Certificate, a student must complete either the compulsory core management courses [twenty-four (24) credit hours] and elective courses [twenty-four (24) credit hours] for a total of forty-eight (48) credit hours (in which case the designator is HRMC) or the compulsory management and psychology courses [twenty-four (24) credit hours] and elective courses [twenty-four (24) credit hours] (delineated in two categories -Psychology and

Business) for a total of forty-eight (48) credit hours (in which case the designator is HRMP). It is possible to complete the certificate program along with the Bachelor of Commerce, Bachelor of Arts, or Bachelor of Science degree programs. It is also possible to receive the Certificate in Human Resource Management by itself.

Compulsory Core Courses – Management Option [twenty-four (24) credit hours]

- MGMT 1281.1.(2) Introduction to Business Management
- MGMT 2383.1.(2) Micro Organizational Behavior
- MGMT 2384.1.(2) Macro Organizational Behavior
- MGMT 3385.1.(2) Human Resource Management
- MGMT 3386.1.(2) Industrial Relations
- MGMT 4482.1.(2) Staffing & Selection
- MGMT 4485.1.(2) Wage & Salary Administration
- MGMT 4486.1.(2) Training and Development

Elective Courses – Management Option [twenty-four (24) credit hours]

- ACCT 2241.1.(2) Introductory Financial Accounting
- ACCT 2242.1.(2) Introductory Managerial Accounting
- CMLW 2201.1.(2) Legal Aspects of Business – Part I
- CISY 1225.1.(2) Introduction to Computer Applications
- COMM 2293.1.(2) Communications
- COMM 3394.1.(2) Oral Communications and Presentation Techniques
- ECON 1201.1.(2) Principles of Economics: Micro
- ECON 1202.1.(2) Principles of Economics: Macro
- ECON 3340.1.(2) Human Resource Economics
- ECON 3341.1.(2) Labour Economics
- MGMT 3388.1.(2) Business and Society
- MGMT 3392.1.(2) Occupational Health and Safety
- MGMT 4481.1.(2) Organization Theory: Structure Process, Analysis & Design
- MGMT 4483.1.(2) Management Skills I
- MGMT 4488.1.(2) International Business Management
- MGMT 4493.1.(2) Business-Government Relations in Canada
- MGMT 4496.1.(2) Collective Bargaining
- MGMT 4497.1.(2) Issues in Industrial Relations
- MGMT 4499.1.(2) Senior Management Perspectives
- PSYC 3309.1.(2) Human Factors and Performance
- PSYC 3327.1.(2) Industrial/Organizational Psychology
- *PSYC 3399.1.(2) Special Topics in Psychology
- PSYC 4417.1.(2) Interpersonal Relationships
- PSYC 4425.1.(2) Psychology of Organizational Development
- PSYC 4426.1.(2) Personnel Training & Development
- PSYC 4427.1.(2) Organizational Psychology
- PSYC 4428.1.(2) Personnel Psychology
- PSYC 4441.1.(2) Psychological Measurement
- PSYC 4446.1.(2) Seminar in Psychology

*Note: Course must be directly related to the field of Human Resource Management.

Academic Requirements

All academic regulations governing students in degree and diploma courses also apply to students enrolled in this Certificate Program.

Requirements for Graduation

A minimum cumulative grade point average of at least 2.00 in the Human Resource Management Certificate Program courses is required for graduation with the certificate.

Advanced Standing

Students with courses from previous post-secondary study will be assessed by the Dean of Commerce (or designate) for the Management Option and the Chairperson of the Department for the Psychology Option according to the advanced standing procedures of the university (Academic Regulation 20). To be awarded the Certificate at least twelve (12) credit hours of the compulsory courses and twelve (12) credit hours from the electives must be completed at Saint Mary’s University while registered in the Human Resource Management certificate program.

Credit will not automatically be recognized for university courses completed more than ten (10) years prior to the students return to university study.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, MGMT 1281.1.(2) was formerly MGT 281.1.(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
MGT 281	MGMT 1281	MGT 600	MGMT 6600
MGT 380	MGMT 3380	MGT 601	MGMT 6601
MGT 383	MGMT 2383	MGT 681	MGMT 6681
MGT 384	MGMT 2384	MGT 682	MGMT 6682
MGT 385	MGMT 3385	MGT 683	MGMT 6683
MGT 386	MGMT 3386	MGT 684	MGMT 6684
MGT 388	MGMT 3388	MGT 685	MGMT 6685
MGT 389	MGMT 3389	MGT 686	MGMT 6686
MGT 391	MGMT 3391	MGT 687	MGMT 6687
MGT 392	MGMT 3392	MGT 688	MGMT 6688

MGT 481	MGMT 4481	MGT 689	MGMT 6689
MGT 483	MGMT 4483	MGT 690	MGMT 6690
MGT 484	MGMT 4484	MGT 691	MGMT 6691
MGT 485	MGMT 4485	MGT 692	MGMT 6692
MGT 486	MGMT 4486	MGT 693	MGMT 6693
MGT 487	MGMT 4487	MGT 694	MGMT 6694
MGT 488	MGMT 4488	MGT 695	MGMT 6695
MGT 489	MGMT 4489	MGT 696	MGMT 6696
MGT 490	MGMT 4490	MGT 697	MGMT 6697
MGT 492	MGMT 4492	MGT 699	MGMT 6699
MGT 493	MGMT 4493	MGT 701	MGMT 7701
MGT 494	MGMT 4494	MGT 702	MGMT 7702
MGT 495	MGMT 4495	MGT 703	MGMT 7703
MGT 496	MGMT 4496	MGT 704	MGMT 7704
MGT 497	MGMT 4497	MGT 705	MGMT 7705
MGT 498	MGMT 4498	MGT 710	MGMT 7710
MGT 499	MGMT 4499	MGT 720	MGMT 7720
MGT 585	MGMT 5585	MGT 730	MGMT 7730
MGT 586	MGMT 5586	MGT 740	MGMT 7740
		MGT 899	MGMT 8899

1281.1(2) Introduction to Business Management

The purpose of this course is to introduce the student to the various aspects of business in the Canadian environment. Emphasis will be placed on the functional areas of marketing, production, finance, and the individual in the organization. In addition, the process of management will be outlined and evolving changes in management practices discussed. Current issues such as social responsibility, business ethics and the role of business in the community will be examined. Teaching methods will include lectures, group presentations and discussions of cases as well as other exercises.

2380.1(2) Family Business

Prerequisite: completion of at least sixty (60) credit hours.

This course is designed to examine the dynamics of family-owned businesses which have problems peculiar to the family orientation. It covers issues such as income vs. inheritance, management and promotion, bringing non-family resources to the firm, harvest and sell out strategies, succession, deciding to join the family firm, establishing credibility as a daughter or son, stages of family business growth, and strategic planning.

Classes 1 1/2 hrs. and seminars 1 1/2 hrs. a week. 1 semester.

2383.1(2) Micro Organizational Behavior

Prerequisite: MGMT 1281.1(2).

This course focuses on the micro aspects of organizational behavior. Topics covered include human needs and motivation, learning, perception, and attribution, as these relate to individuals and groups in organizations. Teaching methodology includes lectures, discussions and case analysis.

2384.1(2) Macro Organizational Behavior

Prerequisite: MGMT 1281.1(2).

This course focuses on macro aspects of organizational behavior. Topics covered include group processes and their relationship to effectiveness, inter-group cooperation and conflict, organizational character, structure, environment and culture, leadership, communication, decision making and organizational change and development.

3385.1(2) Human Resource Management

Prerequisite: MGMT 2383.1(2) and 2384.1(2) or PSYC 3327.1(2) and 4427.1(2).

A study of the conceptual and practical aspects of the human resource management function in organizations, with a special emphasis on business organizations. The course focuses on the major issues, procedures and problems involved in human resource planning, recruitment and selection, compensation, training and development, and maintenance of human resources.

3386.1(2) Industrial Relations

Prerequisite: MGMT 2383.1(2) and 2384.1(2) or PSYC 3327.1(2) and 4427.1(2).

An introduction to the field of industrial relations. It focuses on the impact of collective bargaining in management/labour relations. Topics covered include the historical development, structure, and operation of labour unions, the process and contents of negotiations and the settlement of union/management disputes.

3388.1(2) Business and Society

Prerequisite: ECON 1201.1(2) and 1202.1(2) or permission of instructor.

This course addresses the relationship between business and its social and ecological environment. Topics will include corporate social responsibility and performance, stakeholder analysis, business ethics, corporate governance, consumer and employee welfare, environmental management, globalization and corporate concentration. This course will help students to better understand the relevant issues as well as to learn frameworks and tools that can assist them in integrating social, ethical, and ecological issues into strategic management.

3389.1(2) Structuring the Start-Up

Prerequisite: ACCT 2242.1(2) and MKTG 2270.1(2).

This course uses lectures, problems and cases to develop the students' ability to plan the human, material and economic aspects of the business start-up, whether it is de novo, a franchise, or a buy-out.

Classes and case study 3 hrs. a week. 1 semester.

3391.1(2) Women in Management**[WMST 3391.1(2)]**

The course will examine issues faced by managers as women become a large proportion of the workforce: changing roles and status, sex roles differences, legal implications, corporate politics, and career planning.

3392.1(2) Occupational Health and Safety

Prerequisite: completion of at least sixty (60) credit hours.

This course examines current issues in occupational health and safety including employee/union involvement, government regulation, inspections and compliance auditing.

Classes 1 1/2 hrs. and seminars 1 1/2 hrs. a week. 1 semester.

3480.1(2) Ethical Responsibilities of Organizations

Prerequisite: completion of at least sixty (60) credit hours.

The purpose of the course is to help students bring ethics into their decision making. Ethics will be defined in a broad, contextual, and practical sense. The course focuses on the individual decision maker, the organization as a context and culture that sets the stage for ethical action, and the broader societal, economic, political, and ecological systems that influence moral decision making.

4481.1(2) Organization Theory: Structure, Process, Analysis and Design

Prerequisite: COMM 2293.1 (.2) and MGMT 2383.1(.2) and 2384.1(.2) or PSYC 3327.1(.2) and 4427.1(.2).

In a systems context, the first phase of the course will expose the student to different concepts of formal organization. The second phase will involve the application of concepts using various design approaches and configurations.

4482.1(2) Staffing and Selection

Prerequisite: COMM 2293.1 (.2) and MGMT 3385.1(.2) or PSYC 3327.1(.2) and PSYC 4427.1(.2).

This course examines the issues involved in recruiting applicants for job vacancies and the procedures for assessing the match between candidates and the requirements of the position. The examination of the topic will include consideration of statistical and scientific issues and the practical implications.

Notes: (a) Because of content overlap between this course and PSYC 4428, students should complete only one of these courses.

(b) Students who have previously earned credit for MGT 486 may not also earn credit for MGMT 4482.

4483.1(2) Management Skills I

Prerequisite: COMM 2293.1 (.2) and MGMT 2383.1(.2) and 2384.1(.2) or PSYC 3327.1(.2) and 4427.1(.2).

This course presents the key skills/behaviors considered critical in achieving managerial success. Though there is a theoretical component in the course, much of its development is dependent on each participant's strengths and weaknesses. Individual skill development through activities such as class discussions, role-plays, experimental exercises and feedback on interactions are central to the learning experience within the course.

4484.1(2) Management Skills II

Prerequisite: MGMT 4483.1(.2) and COMM 2293.1 (.2).

There is an emphasis on class discussion, role-plays and experimental exercises in the development of stronger interpersonal skills. Students are expected to develop theoretical bases for their decisions on which types of interactions are most effective in particular situations and to be able to actualize these behaviors in role-play situations.

4485.1(2) Wage and Salary Administration

Prerequisite: COMM 2293.1 (.2) and MGMT 3385.1(.2) or PSYC 3327.1(.2) and 4427.1(.2).

This course is designed to integrate compensation systems with employment planning, career development, and organizational planning concepts.

4486.1(2) Training and Development

Prerequisite: COMM 2293.1 (.2) and MGMT 3385.1(.2) or PSYC 3327.1(.2) and 4427.1(.2).

This course examines the organizational procedures for analyzing training needs and the subsequent phases of developing and evaluating training program effectiveness. The course will also address organizational activities associated with preparing and developing employees as part of their careers in an organization.

Notes: (a) Because of content overlap between this course and PSYC 4426, students should complete only one of these courses.

(b) Students who have previously earned credit for MGT 486 may not also earn credit for MGMT 4486.

4487.1(2) New Venture Opportunities

Prerequisite: COMM 2293.1 (.2) and MGMT 3389.1(.2).

Students are led through the development of the major elements of a business plan for a new venture. As a planning and financing tool, the business plan outlines in detail and specifically quantifies market potential, competition, production and operational requirements, finance, management and the overall feasibility of a possible new venture.

4488.1.(2) International Business Management

Prerequisite: completion of at least sixty (60) credit hours and COMM 2293.1 (.2).

An introduction to the nature of environment of international business management including the study of multinational corporations, intercultural differences and their effects on management style and policy and execution. The focus of discussion and presentation will be on management systems in North and South America, Europe, Middle East, South-East Asia, China, and Japan.

4489.1.(2) Strategic Management

Prerequisite: COMM 2393.2 (.2), FINA 3361.1(.2), MKTG 2270.1(.2), MGMT 2383.1(.2), MGMT 2384.1(.2), and six (6) additional credit hours at the 3000-level from ACCT, ECON, MGMT, FINA, MKTG, or MGSC.

This is a “capstone” course that attempts to utilize all the business disciplines (management, marketing, finance, accounting, etc.) in an effort to identify, diagnose, and recommend appropriate action for real managerial problems. It is hoped that through this course, students will gain a better understanding of the complexity and interrelationship of modern managerial decision making. It is also hoped that this exposure will facilitate the students’ ability to analyze complex problem situations.

4490.1.(2) Seminar in Management

Prerequisite: COMM 2293.1 (.2) and completion of at least sixty (60) credit hours and permission of instructor.

The course deals with selected topics in the management area. The topics to be covered will vary depending on the interests of the students and instructors.

Seminar 3 hrs. a week. 1 semester.

4492.1.(2) Directed Study

Prerequisite: COMM 2293.1 (.2). and permission of Chairperson and instructor.

Intended to supplement or provide an alternative to the regular management courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

Tutorial and independent study. 1 semester.

4493.1.(2) Business-Government Relations in Canada**4494.1.(2) Entrepreneurship: Theories and Concepts**

Prerequisite: COMM 2293.1 (.2) and completion of at least sixty (60) credit hours.

Through lectures and seminars, this course covers the nature of entrepreneurship, theories of entrepreneurship, characteristics and behaviors of entrepreneurs, the entrepreneur as catalyst for economic activity, application of the concepts of entrepreneurship to public and non-profit enterprises both large and small, entrepreneurship in developing and developed economies.

Classes and seminar 3 hrs. a week. 1 semester.

4495.1.(2) Small Business Performance Improvement

Prerequisite: COMM 2293.1 (.2) and completion of at least sixty (60) credit hours.

This course requires students to work with a small business owner/manager to identify a small business problem, to develop a workable solution to the problem, and to implement that solution.

4496.1.(2) Collective Bargaining

Prerequisite: COMM 2293.1 (.2) and MGMT 3386.1(.2).

An examination of the process of collective bargaining and its role in management-union relations. The course examines the nature of negotiation, its characteristics, the roles of power, persuasion, communication, social structure, negotiating strategies and tactics, and negotiators’ personalities. Grievance handling as a form of negotiation is also examined.

4497.1.(2) Issues in Industrial Relations

Prerequisite: COMM 2293.1 (.2) and MGMT 3386.1(.2).

An examination of some of the important issues related to industrial relations. Examples include employment statutes, human rights legislation, collective bargaining in the public sector, and the settlement of management-union disputes. Topics may be slightly varied depending on emerging issues and the interests of instructor and students.

4498.1.(2) Small Business Consultancy

Prerequisite: COMM 2293.1 (.2) and permission of instructor.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary’s University Business Development Centre. Student groups receive a project proposal outlining the requirements, information needs and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project’s results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information see <http://www.smu.ca/smubdc>.

Internship. 1 semester.

4499.1.(2) Senior Management Perspectives

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5585.1.(2) Organizational Behavior

This course is designed to address theory and practical applications relating to factors that impinge on behavior in organizational settings. Topics covered will focus on theoretical and practical issues relating to organizational socialization, perceptions, attributions, motivation, learning and reinforcement, stress and work, macro organizational factors (structure, design, culture), and organizational change. Teaching methods will include lecture, case analysis, and group and individual projects.

5586.1.(2) Leadership and Behavioral Process

This course is designed to address theory and practical applications relating to the processes of management and leadership in organizational settings. Topics covered will include leadership, individual difference (attitudes, personality), communication, feedback, interviewing, negotiations, conflict, team work, persuasion, presentation, power and influence, participative decision making and delegation. The course will consider the relevant theoretical and conceptual models relating to these topics but will also place an emphasis on practical applications involving simulations.

6600.1.(2) Entrepreneurship: Theory and Concepts

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course covers the nature of entrepreneurship; theories of entrepreneurship; characteristics and behaviors of entrepreneurs; the entrepreneur as catalyst for economic activity; application of the concepts of entrepreneurship to public and non-profit enterprises, both large and small; and entrepreneurship in developing and developed economies.

6601.1.(2) Essentials of Management Consulting

Prerequisite: completion of all 5000-level SMBA courses.

This course is an introduction to management consulting for those considering a possible career in the field. It provides an overview of the history, trends, dynamics and competitive structure of the industry. Emphasis will be on the consulting process in action. The course will introduce participants to key practices in undertaking a consulting assignment, including the preparation of proposals and managing the consulting process. Issues facing the consulting profession, including ethical decision making, will also be addressed.

Note: Students are advised to consult with the Chairperson of the Department re: arrangements with the Canadian Society for Managerial Accounts for registration in this particular course.

6681.1.(2) International Business Management

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

The course focuses on the nature and environment of international business management, including the study of multinational corporations and joint ventures and their impact on the host country, inter-cultural differences and their effects on management style, policy, and execution.

6682.1.(2) Performance Management

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

The focus of this course will be in two areas: Performance Evaluation and Reward Systems. In performance evaluation, this course introduces the students to elements of an effective performance appraisal system, types and accuracy of various performance measures and alternate appraisal methods. The course also provides a fairly detailed understanding of the issues involved in job evaluation, designing compensation systems, especially managerial compensation, fringe benefits and application of motivation themes to performance management.

6683.1.(2) Management of Interpersonal Relations

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course aims at improving the individual's ability to interact productively with others in two-person and small group relationships. It seeks to develop an individual's awareness of how a person's behavior affects and is affected by that of others.

6684.1.(2) Management of Organizational Design and Development

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

A study of the evolution of organizational design and the use of current techniques in organizational development. Emphasis is placed upon understanding how the evolution of organizational structures has affected our present ones and how current research can be utilized to improve and develop them in the future.

6685.1.(2) Strategic Human Resource Management

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

An investigation of the role of the personnel manager and the changes in the nature of responsibilities brought about by changes in the legal and technological environments of organizations. The course deals mainly with human resource planning, selection, and compensation and the development of the human resources of the organization.

6686.1.(2) Industrial Relations

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course reviews the development, structure, and operations of labour unions. It introduces the student to the legislation that governs labour-management relations in the unionized context. Included here are laws governing union certification, unfair labour practices, strikes, lockouts and picketing and other key issues. This course also deals with negotiation of collective agreements and various means of conflict resolution, such as conciliation, mediation, and arbitration.

6687.1.(2) New Venture Opportunities

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

Students are led through the development of the major elements required for a business plan for a new venture, as well as developing an appreciation for new venture growth in the economy. As a planning and financing tool, the business plan outlines in detail and specifically finance, management and the overall feasibility of a possible new venture. Attention is given to customizing the plan to specific requirements of different financing (e.g., venture capital, bank finance, angel investors).

6688.1.(2) Social Issues in Business

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course will foster an awareness of the social and ecological impacts of business activity. Topics will include corporate social responsibility and performance, stakeholder analysis, business ethics, corporate governance, consumer and employee welfare, environmental management, sustainable development, multinational corporate power, and distributive justice. This course will help students to better understand the relevant issues as well as to learn frameworks and tools that can assist them in integrating social, ethical, and ecological issues into strategic management.

6689.1.(2) Strategic Management

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course focuses attention on the role of the senior management function to develop and implement strategy in the context of the resources. It draws upon case material based on companies of differing sizes, technologies and degrees of diversification. By providing an insight into the problems and responsibilities faced by general management at the senior level, it seeks to provide an overall perspective for the remainder of the program.

6690.1.(2) Seminar in Management

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

The course deals with selected topics in the management area. The topics to be covered will vary depending on the interests of the students and instructors.

Seminar 3 hrs. a week. 1 semester.

6691.1.(2) Staffing, Training and Development

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course deals with two important human resource activities: staffing and organization with the right individuals and training them to perform their current and future responsibilities competently. This course would cover topics such as recruitment techniques, selection tools (e.g., tests, interviewing), orientation and training, and management techniques using various learning principles.

6692.1.(2) Directed Study

Prerequisite: completion of all required 5000-level SMBA courses and permission of MBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the regular management courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

6693.1.(2) Management in Developing Economies**6694.1.(2) Ethical Issues in the World of Business**

Prerequisite: completion of all required 5000-level SMBA courses and permission of MBA Director, Departmental Chairperson, and instructor.

The purpose of the course is to examine some of the problems that arise in business from an ethical point of view. The course objectives will be to develop an understanding of what moral/ethical issues are, as distinct from practical, legal, or religious matters. Students will acquire a framework for analyzing ethical problems and then consider a number of difficult matters that business people must deal with in their careers. As the topics are introduced, students will see how they stem from issues in accounting, finance, human resources, marketing, and strategic management.

6695.1.(2) Small Business Performance Improvement

Prerequisite: completion of all required 5000-level SMBA courses and permission of MBA Director.

This course requires students to work with a small business owner/manager to identify a small business problem, to develop a workable solution to the problem, and to implement that solution.

6696.1(2) The Negotiating Process

Prerequisite: MGMT 6686.1(2) or permission of instructor.

The focus of this course is on the negotiating process with special emphasis on contract negotiation between management and union. It examines the nature of negotiation, planning and preparation for negotiation, negotiating theories, strategies and tactics. It also examines the roles of such key elements in negotiation as communication, persuasion, power and ethics.

6697.1(2) Family Business

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course is designed to look at the dynamics of family-owned businesses which have problems peculiar to its family orientation. This course would cover issues such as: income vs. inheritance, management and promotion, bringing non-family resources to the firm, harvest and sell-out strategies, succession, deciding to join the family firm, establishing credibility as a daughter or son, stages of family business growth, and strategic planning.

6699.0 Research Project in Management

Co-requisite: SMBA 6697.1(2) or permission of MBA Director.

Each student is required to complete a project involving the practical application of the research concepts and techniques used in management, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

The following courses are reserved exclusively for students enrolled in the doctoral program in Business Administration (Management) at Saint Mary's University.

7701.1(2) Management Thought and the Management Environment

This course focuses on the development of management thought, the factors that shaped the various schools of thought, and the central debates around issues of ontology, epistemology, and methodology. The course is designed to achieve four objectives:

- (i) a working, in-depth knowledge of a range of management theories;
- (ii) an understanding of the relationship between theory, practice and social context;
- (iii) a critical appreciation of the relationship between theory, context and organizational outcomes; and
- (iv) a forum for reflecting on and developing research proposals.

7702.1(2) The Nature of Management Research

This course comprises an introductory survey of research methods commonly used in management/HR research. Typical topics include framing a research question, research ethics, and both qualitative and quantitative research methodologies.

7703.1(2) Qualitative Research Methods

This course is designed to introduce students to various approaches to qualitative data collection, description, analysis and interpretation. Students will be exposed to a variety of methods including observation, interviews and textual analysis. Generic issues to be discussed will include conducting and presenting qualitative research, performing convincing data analysis, evaluating the findings of, and developing theory from, qualitative research studies.

7704.1(2) Quantitative Research Methods

This course focuses on quantitative research methods as used in human resources/organizational behavior research. Typical topics include survey methodology, experimental and quasi-experimental design, longitudinal methods, unobtrusive measures, meta-analysis and psychometric theory.

7705.1(2) Multivariate Statistics for Management Research

This course reviews multivariate statistical methods commonly used in human resource management. Topics considered include regression models and alternatives to OLS regression, MANOVA and related models, cluster and multidimensional scaling analyses and structural equation modeling.

7710.1(2) Doctoral Seminar in Human Resource Management

This course comprises a detailed consideration of topics in the current human resource management research literature. The course considers both the technical and strategic research literatures in human resource management.

7720.1(2) Doctoral Seminar in Organizational Theory and Design

This course focuses on the development of theories of organizational structuring and design over the last century, the factors that shaped those ideas, and the various schools of thought. The course is designed to achieve the following objectives:

- (i) in-depth knowledge of classic theories of organization and their implications for modern-day organizational theory and design;
- (ii) a critical understanding of the relationship between industrial development and theories of organization;
- (iii) a detailed knowledge of a range of current issues and debates within organizational theory and design;
- (iv) a thorough understanding of the relationship between organizational theorizing and practice.

7730.1(2) Directed Readings in Management I

This is a directed studies course in which a student undertakes a detailed consideration of an area of management research in consultation with a faculty member.

7740.1(2) Directed Readings in Management II

This is a directed studies course in which a student undertakes a detailed consideration of an area of management research in consultation with a faculty member.

8899.0 Thesis

Empirical research conducted under the supervision of an Advisory Committee.

Marketing (MKTG)

Chairperson, Associate Professor	L. Rieber	MKT 470	MKTG 4470	MKT 673	MKTG 6673
Professors	C. Kim	MKT 471	MKTG 4471	MKT 674	MKTG 6674
Associate Professors	G. Fullerton, H.	MKT 473	MKTG 4473	MKT 675	MKTG 6675
	Ogden, L. Van Esch,	MKT 474	MKTG 4474	MKT 676	MKTG 6676
	R. Venkat,	MKT 477	MKTG 4477	MKT 678	MKTG 6678
Assistant Professors	V. Creelman, D.	MKT 478	MKTG 4478	MKT 679	MKTG 6679
	Wadden	MKT 479	MKTG 4479	MKT 690	MKTG 6690
Lecturer	M. Morales	MKT 490	MKTG 4490	MKT 692	MKTG 6692
				MKT 699	MKTG 6699

The Department of Marketing offers a program for marketing majors which, in addition to the general requirements for a Bachelor of Commerce degree as outlined in Section 3 of this *Calendar*, requires students to take MKTG 3376.1(.2) (Consumer Behaviour), MKTG 3378.1(.2) (Marketing Research), MKTG 3379.1(.2) (Marketing Management), MKTG 4479.1(.2) (Marketing Policy) and six (6) credit hours additional electives. For additional information, students should consult the Chairperson and/or faculty advisors. The Department administers the communications courses [COMM 2293.1(.2) and COMM 3394.1(.2)] described earlier in this *Calendar*.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, MKTG 2270.1(.2) was formerly MKT 270.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
MKT 270	MKTG 2270	MKT 492	MKTG 4492
MKT 375	MKTG 3375	MKT 495	MKTG 4495
MKT 376	MKTG 3376	MKT 571	MKTG 5571
MKT 378	MKTG 3378	MKT 670	MKTG 6670
MKT 379	MKTG 3379	MKT 671	MKTG 6671
MKT 462	MKTG 4462	MKT 672	MKTG 6672

2270.1(.2) Introduction to Marketing

Prerequisite: MGMT 1281.1(.2), and ECON 1201.1(.2) and 1202.1(.2).

Students are introduced to the basic marketing tools – segmentation, positioning, product, price, distribution, and promotion. Marketing research, buyer behaviour, planning, marketing in a global setting, and the relationship between marketing and society are also introduced. Teaching methods include lecture, current readings, videos, class exercises and case analysis.

3375.1(.2) International Marketing

Prerequisite: MKTG 2270.1(.2).

Students explore the economic, cultural, political, and legal aspects of international marketing, together with international product policy, distribution, pricing, and promotion. International consumerism, research, and management issues are also addressed.

3376.1(.2) Consumer Behaviour

Prerequisite: MKTG 2270.1(.2).

Students gain an understanding of the social, cultural, and psychological factors influencing consumer behaviour and of the implications of consumer behaviour to marketing strategies. Topics include consumers' needs, attitudes, learning, decision making, consumption patterns, cultures, and life styles.

3378.1(.2) Marketing Research

Prerequisite: MGSC 2207.1(.2) and MKTG 2270.1(.2).

Students are introduced to applied marketing research. Topics include preparation and evaluation of research proposals, evaluation of secondary data, design of research instruments, sampling, data collection, data analysis using statistical packages, and preparation and evaluation of research reports.

3379.1(.2) Marketing Management

Prerequisite: MKTG 2270.1(.2), ACCT 2242.1(.2), and COMM 2293.1(.2).

The objective of this course is to better equip students with the necessary analytic and communication skills to succeed as marketing managers. The focus is on practical applications. Course activities may include discussions, case analyses, simulation games, secondary research and field research projects. The course focuses on skill development and on integration of all decision areas in marketing.

4462.1(.2) Services Marketing

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students will be exposed to conceptual and managerial issues in the marketing of services. Topics include marketing and service organizations, service-quality management, service marketing mix, marketing strategies for profit and non-profit service organizations, international and emerging perspectives on service marketing. Students will develop strategies for specific service areas such as health care or tourism.

4470.1(.2) Ethical Issues in Marketing Management

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students explore the moral and social consequences of marketing decisions on the major stakeholder groups: customers and clients, channel members, suppliers, governments, public-interest groups, and society. The obligations and responsibilities of marketing managers to these groups are also discussed.

4471.1(.2) Integrated Marketing Communications

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students study models of interpersonal and mass communications and the various promotional crafts: advertising, sales promotion, publicity, public relations, and personal selling, with a focus on integrating these into a coherent communications strategy. Marketing communications implications inherent in product pricing, design, packaging, and distribution are also examined.

4473.1(.2) Management of Marketing Channels

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students examine the complex path from manufacturer or producer to end-user: the structure of marketing channels, the responsibilities of each member, the factors affecting channel effectiveness, the methods for developing and managing effective channel relationships.

4474.1(.2) Personal Selling and Sales Management

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students study the theories and skills required for effective personal selling; for recruiting, training, compensating, and motivating sales personnel; and for managing the total selling effort.

4476.1(.2) Current Topics in Marketing

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students gain an appreciation of current issues in marketing, the changing nature of the marketplace, and the challenges these changes pose. The focus is on addressing practical problems in a complex environment. Course content varies from year to year.

4477.1(.2) Marketing to Organizations

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students develop an understanding of the industrial/organizational marketplace. The differences between marketing to consumers and marketing to organizations, the buying behaviour of organizations, and the related marketing functions and strategies are discussed.

4478.1(.2) Retail Management

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students undertake a comprehensive study of the activities involved in retailing goods and services to consumers. Topics include the evolution of retailing, shopping behaviour, retail marketing strategies, and emerging trends.

4479.1(.2) Marketing Policy

Prerequisite: COMM 2293.1 (.2), MKTG 3376.1(.2), 3378.1(.2), and 3379.1(.2).

Students integrate the material learned in the prerequisite, upper-division marketing courses to analyze marketing opportunities, develop and evaluate marketing strategies, and develop and evaluate marketing plans.

Teaching methods include case analyses, field projects, and/or computer simulation games.

4490.1(.2) Special Topics in Marketing

Prerequisite: MKTG 3379.1(.2) and COMM 2293.1 (.2).

Students have the opportunity for in-depth study of selected topics in marketing. Topics selected for discussion are at the discretion of the instructor, with approval of the Department. Issues to be discussed may include such topics as marketing productivity, marketing auditing, marketing models, social issues in marketing. Topics will vary from year to year. The course may be repeated for credit hours when topics vary.

Tutorial and independent study. 1 semester.

4492.1(.2) Directed Study

Prerequisite: COMM 2293.1 (.2) and permission of Chairperson and instructor.

Intended to supplement or provide an alternative to the regular marketing courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the students some measure of independence and initiative.

Tutorial and independent study. 1 semester.

4495.1(2) Business Consultancy

Prerequisite: COMM 2293.1 (.2) and MKTG 3379.1(.2) (which may be taken concurrently) and permission of instructor.

This course allows students to gain business experience by working for clients of the Saint Mary's University Business Development Centre.

Student groups receive a project proposal outlining the requirements, information needs, and services they will provide the client during the semester. Projects generally take the form of a business plan, market study, or other business-related function and often involve financial projections. Each project provides students an opportunity to use skills learned in business courses and to understand the interrelationship between marketing, accounting, finance, and management in a practical business setting. Under supervision, students prepare a professional report and final presentation that communicate the project's results for the client.

Work groups often include students from different business disciplines and are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to meet a minimum of three hours each week. For more information see <http://www.stmarys.ca/smubdc>.

Internship. 1 semester.

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master's programs.

5571.1(2) Marketing Management: An Overview

A course providing managerial introduction to the fundamentals of marketing with primary focus on the planning, organizing, and controlling of product, price, distribution, promotion, and public policy strategies, in both domestic and international markets.

6670.1(2) Ethical and Social Analysis in Marketing Decisions

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

This course studies the application and integration of ethical and social analysis in marketing decisions. It also considers whether, when, and how to recognize and reconcile the interests of diverse groups of marketing stakeholders when making marketing decisions. The groups include customers and clients, channel members, suppliers, governments at all levels, as well as public-interest groups and society at large.

6671.1(2) Services Marketing

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

An examination of the marketing management process as applicable to service organizations. Students will develop a marketing framework relevant to services marketing. With emphasis on current literature, service-quality management, managing the customer and marketing mix, designing and managing a marketing-oriented service organization, globalization of services, strategy formulation for profit and non-profit services will be addressed.

6672.1(2) Marketing Communications: Planning and Strategy

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

A study of communications theory as it applies to the role of interpersonal and mass communication media in marketing. Emphasis is placed on the formulation, coordination and evaluation of the effectiveness of advertising, personal selling, sales promotional, and public relations strategies.

6673.1(2) Marketing Distribution: Planning and Strategy

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

A systematic analysis of the decision-making factors underlying the development of effective distribution policies and strategies. The course focuses on the institutions and functions of the marketing channel with emphasis placed on distribution regulation, direct selling, retail, wholesale and physical distribution functions.

6674.1(2) Marketing on the Internet

Prerequisite: MKTG5 5571.1(.2) and CISY 5521.1(.2).

This course will provide students with an understanding of the Internet as a marketplace. Technical as well as managerial issues involved in electronic commerce will be addressed. Using online readings, cases, and assignments, students will develop an understanding of the rapidly developing and changing Web-based market, and the associated consumer behaviour and marketing strategy issues.

6675.1(2) Multinational Marketing

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

A comprehensive survey of the nature and environment of multinational marketing. This course focuses on the marketing management aspects of multinational business. Emphasis is placed on developing analytical decision-oriented abilities in the area of multinational pricing, product, policy, distribution, promotion, research and development, and market segmentation.

6676.1(2) Consumer Behaviour: Decision-Making Applications

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

An examination of the buying behaviour of individuals as it is affected by psychological and sociological influences. Emphasis is placed on the understanding of how such behavioral-science concepts as social class, reference group, perception, attitude, motivation, personality and learning can contribute to the improvement of marketing decision-making.

6678.1(2) Marketing Research

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

A study of the decision-making application of marketing research techniques and procedures. Emphasis is placed on research design, sampling, data collection, analysis and presentation.

6679.1(2) Strategic Marketing

Prerequisite: completion of all required 5000-level SMBA courses or permission of MBA Director.

In this course, students will develop understanding and analytical skills to make strategic choices for achieving sustainable competitive advantage in global market environments. Method of instruction may include seminar discussions, case analysis, simulations, secondary research and field research projects.

6690.1(2) Seminar in Marketing

Prerequisites: completion of all required 5000-level SMBA courses or permission of MBA Director.

An in-depth study of selected topics. Selections for discussion are at the discretion of the instructor, with approval of the Department. Issues to be discussed may include such topics as marketing productivity, marketing auditing, marketing models, social issues in marketing. Topics will vary from year to year. The course may be repeated for credit hours when topics vary.

6692.1(2) Directed Study

Prerequisite: completion of all required 5000-level SMBA courses and permission of MBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the regular marketing courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

6699.0 Research Project in Marketing

Co-requisites: SMBA 6697.1(2), MKTG 6678.1(2), or permission of MBA Director.

Each student is required to complete a project involving the practical application of the research concepts and techniques used in marketing, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.



TD Meloche Monnex funds \$75,000 bursary program for students with disabilities. From left to right: Dr. Martha Jodrey, Special Advisor to the Department of External Affairs, Saint Mary's; Dr. David Leitch, Director of the Atlantic Centre, Saint Mary's; Catherine A. Decarie, Vice-President of Client Services, Meloche Monnex Financial Services; Jenna-Leigh Wilson, Saint Mary's Arts student and recipient of the TD Meloche Monnex Bursary; Jean R. Lachance, Executive Chairman, Affinity Market Group, TD Meloche

Master of Business Administration (MBA)

Acting Associate Dean:
Masters Program. Gordon Fullerton
Managing Director Leah Ray

Program Requirements and Courses

The requirements for the Master of Business Administration are found in Section 3 of this *Calendar*. The courses for this program are found in the listings for the individual departments except for those described in the following paragraphs.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, SMBA 0010.1(2) was formerly MBA 010.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
MBA 010	SMBA 0010
MBA 020	SMBA 0020
MBA 502	SMBA 5502
MBA 597	SMBA 5597
MBA 601	SMBA 6601
New Course	SMBA 6690
MBA 696	SMBA 6696
MBA 698	SMBA 6698
MBA 699	SMBA 6699

The following courses are available only to students registered in the Master of Business Administration Program and with permission of the MBA Director to students registered in other master’s programs.

0010.1(2) Professional Skills Development

This required non-credit course is intended to provide students opportunities to develop and hone career management skills, interpersonal and team skills, cross-cultural skills and communication skills. The course may be delivered on or off-site and may involve seminars and workshops.

Seminar/Workshop – 60 hours.

Note: Successful completion of this course will result in an “S” (satisfactory) grade on the student’s transcript. This will **not** be counted into grade point averages.

0020.1(2) Integrative Case Competition

Prerequisite: completion of all 5000-level MBA courses.

This required non-credit course is intended to provide students with an opportunity to apply the concepts learned in the first year of the MBA Program. Students will also have to demonstrate team skills, problem solving skills and communication skills. Students, working in teams, will solve several integrative and strategic cases and present the cases to a panel of judges. Feedback on content, team work and communication skills will be provided.

Case Presentations 15 to 25 hours.

Note: See above under the SMBA 0010.1(2) course description.

5502.1(2) Managerial Economics and Decision Analysis

This course focuses on optimal decision-making for firms, emphasizing economics and quantitative methods. Topics will include the economic behavior of firms and consumers, analysis of cost, revenue and profit; organization using incremental and marginal analysis; decision-making under risk and uncertainty; analysis of supply and demand; optimizations of production, cost and market/distribution decisions; and market structures and the role of government.

5597.1(2) Business Research Methods

This course will deal with quantitative research methods, as well as tools applied in business research. Topics may include: research process, primary and secondary data collection, data analysis, econometric modeling and multivariate techniques, use of information technology in research, communicating research findings, and business research ethics. Lectures, cases and lab exercises will be used.

6601.1(2) Integrative Management Exercise

Prerequisite: completion of all 5000-level MBA courses.

This course will use experimental learning methods such as simulations and/or field projects to integrate the different functional areas of business. Students will work in teams and will formulate/implement business strategies. In addition to emphasizing the inter-relationships between functional areas, the course will also develop critical managerial skills.

6690.1 (.2) Special Topics

Prerequisites: Completion of all 5000 level courses or permission of the Associate Dean – Masters Program

This course will offer an in-depth examination of current or emerging and innovative topics in management. The topics may be of a cross-functional or multidisciplinary nature. The course will provide a balance between theory and application. The course may be repeated for credit when topics vary.

6696.0 Small Business Accounting and Finance

Prerequisite: completion of all required 5000-level MBA courses or permission of MBA Director.

This course will focus heavily on the relevant tools in Accounting and Finance needed to successfully operate day-to-day activities of a small business. The Accounting component of this course will concentrate on the preparation of the financial and managerial accounting information needed to manage a successful owner managed business. The Finance component will concentrate on the use of accounting information for working capital management and capital budgeting. Among the topics to be covered are income and commodity tax system (tax planning), financial reporting, financial statement analysis, capital budgeting for small business (including working capital management), financial forecasting, decision to purchase or lease performance appraisal, banking relationships, employment benefit management and legal environment.

The Writing Centre now offering a Summer Writing Program for high school students. Julie-Ann Stodolny: "This Program will provide high school students with the real edge needed to succeed in their first year and beyond", says Julie-Ann Stodolny, Director of the Writing Centre

6698.1(2) MBA Consulting Project (MCP)

Prerequisite: completion of all required 5000-level MBA courses or permission of MBA Director.

This course will provide students with an opportunity to apply concepts and theories learned in the program in a practical setting. Students will be assigned individually or in teams to a business or non-profit organization. Students will work with the client organization, under the supervision of a faculty member, to develop a detailed consulting report.

6699.1(2) MBA Internship

Prerequisite: completion of all 5000-level MBA courses and permission of MBA Director.

The MBA Internship provides students an experiential learning opportunity through work experience in an organization. Students will be able to apply the concepts learned in the program and will also be able to bring back real life experience into the classroom. Students will be required to submit reports during and at the end of the work term. An employer assessment of student performance will be conducted.



Master of Finance (MFIN)

Director Francis Boabang, Finance

Program Requirements and Courses

The requirements for the Master of Finance are found in Section 3 of this *Calendar*. The courses for this program are described in the following paragraphs.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, MFIN 5500.1(2) was formerly MFN 550.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
MFN 500	MFIN 5500	MFN 667	MFIN 6667
MFN 501	MFIN 5501	MFN 668	MFIN 6668
MFN 540	MFIN 5540	MFN 669	MFIN 6669
MFN 603	MFIN 6603	MFN 670	MFIN 6670
MFN 609	MFIN 6609	MFN 671	MFIN 6671
MFN 641	MFIN 6641	MFN 676	MFIN 6676
MFN 663	MFIN 6663	MFN 690	MFIN 6690
MFN 664	MFIN 6664	MFN 692	MFIN 6692

The following courses are available only to students registered in the Master of Finance Program. No exceptions can be made because of the uniqueness of the program’s delivery. Unless otherwise stated, classes are offered 6 hours a week for 8 weeks.

5500.1(2) Microeconomics and Business Strategy

The objective of this course is to provide students with the microeconomic analytical tools which can be applied in managerial decision-making under constraints and uncertainty. The focus will be on the theory of consumer behavior and demand, theory of production and cost in both

the short run and long run behavior of the firm, and the appropriate firm pricing strategy under different market structures.

5501.1(2) Macroeconomics and Public Policy

The course examines the operations of the macroeconomy in the short and long run, and discusses the macroeconomic functions of the public sector in a market economy. Special attention will be given to the interaction between domestic and international asset markets (including the market for foreign exchange) and the market for goods and services, and to the role of fiscal and monetary tools that can be employed by public policy makers to affect overall economic activity and to influence the operation of business organizations in a global economy.

5540.1(2) Financial Reporting and Analysis

Financial Reporting and Analysis provides an introduction to reporting to parties external to the organization. Using a conceptual approach, the course gives a thorough understanding of financial reporting concepts, principles and practices and how to interpret and analyze financial statements. An appreciation of the limitations inherent in published financial reports is provided throughout the course. This course is intended to provide the prerequisite knowledge and skill set for a second course, Financial Reporting and Statement Analysis, which in turn can serve as a basis for the Financial Analysts Program.

6603.1(2) Applied Statistics and Data Analysis

The objective of the course is to provide the student with an in-depth understanding of the most useful applied statistical techniques used in data analysis. Emphasis will be on designing, conducting, analyzing, and interpreting the results of research designs. Topics include a review of statistical inference, basic ideas of linear regression, multiple regression analysis, functional forms of regression models, and several practical aspects of the linear regression model. Extensive use is made of computer-oriented statistical packages.

6609.1(2) Econometrics and Business Forecasting

The objective of this course is to provide students with a solid working knowledge of the theory and practice of econometric modeling and forecasting. The focus will be on selected topics in econometrics (with emphasis on newer developments) and on the most commonly forecasting methods (such as exponential smoothing, time series decomposition, and AIRMA-type forecasting models) that may usefully be applied in a real world setting to forecast financial as well as non-financial economic variables.

6641.1(2) Financial Statement Analysis

The course examines financial statements from the perspective of both preparers and users of financial information. The course begins with the conceptual framework underlying the reporting process and proceeds to a structured analysis of the basic financial statements: The income statement, the balance sheet and the statement of

cash flows. Here, the supply side (the various models of information production) will be emphasized. The course then shifts to the demand side of the financial information, where the focus is on the myriad mechanisms of information extraction. Modern techniques such as *multiples* and *forecasting* are used to establish a functional relationship between the accrual process and the economic position of a firm. The course will focus on the valuation approach: The informed use of accounting numbers in projecting cash flows and determining fundamental security values. The student will appreciate the judicious use of accrual accounting in all facets of financial decision making.

Classes: 6 hrs a week. 7 weeks. Lab: 16 hrs.

6663.1.(2) Financial Management

This course provides an introduction to financial management and the role of finance, both within the organization and the economy as a whole, with emphasis on financial decision-making. Managerial in emphasis, this course examines financial planning and analysis, working capital management, capital budget techniques, and theories of cost of capital, portfolio theory and valuation of the firm. Other topics considered include investment decisions and subsequent financing such as leverage and capital structure of the firm, and dividend policy. This course is intended to provide the prerequisite knowledge and skill set for a second course, Corporate Finance.

6664.1.(2) Corporate Finance

This course will examine contemporary financial theories and their applications in formulating corporate policies in major areas such as asset allocation, i.e., which capital investments to undertake, how to finance them, i.e., capital structure and dividend policy management and corporate restructuring. Case studies and problems will be used to facilitate the understanding of how financial theories can be applied in practice. The course objectives: students (i) will acquire knowledge and understanding of the concepts and mainstream theories in corporate finance including recent developments in the area; (ii) will be able to evaluate the strengths and limitations of up-to-date theories and practices in corporate finance; (iii) will be able to apply financial theories in corporate financial management and policy making. In summary, this course is designed to develop skills found in competent financial managers.

6667.1.(2) Future and Options

This course is intended to help students understand derivatives, with emphasis on options and futures. It provides a detailed introduction to the markets, characteristics, applications, and valuations of various futures and options. Topics covered include commodity futures, stock market index futures, interest rate futures, foreign currency futures, stock options, stock market index options, interest rate option, currency options, options on futures, and some exotic options. The binomial option pricing model and Black-Scholes option pricing model are covered, including the stochastic processes underlying the Black-Scholes model and derivation of the model.

The course will be delivered in forms of lectures and lab work. While the lectures will introduce the theories, models, and principles, the lab work will expose students to real derivative markets, and help students use financial market databases and option pricing and analysis software.

Classes: 6 hrs. a week. 7 weeks. Lab: 16 hrs.

6668.1.(2) Investments and Portfolio Management

This course presents an overview of the Canadian investment environment. A framework is developed for assessing the merits of various securities that trade in the money and capital markets. Topics covered in this course include sources of financial information, Canadian market indicators, market transactions, and margin trading, portfolio risk and return analysis, CAPM, single index models and APT, market efficiency, the analysis of fixed income and equity securities and derivatives. An application to portfolio management is given. Major subject areas include the different types of funds, their objectives, performance evaluation and attribution analysis, an analysis of the aggregate stock market, industry, and company. This course is intended to provide the prerequisite knowledge and skill to serve as a basis for the Financial Analysis Program.

Classes: 6 hrs. a week. 7 weeks. Lab: 16 hours.

6669.1.(2) Risk Management

This course introduces students to a very important area: risk management. It will firstly provide an overview of risk management, including the institutional issues, and the concept of firm-wide risk management. Then, various tools and methodologies of risk management will be explored, with focus on using derivatives. It will discuss the management of some major types of risks such as market risk, interest rate risk, currency risk, credit risk, and so on. In addition to lectures, several cases will be studied.

6670.1.(2) Fixed Income Securities Analysis

This course provides a detailed analysis of the bond and money markets and the instruments available therein. Although the emphasis is on North American securities, global portfolios are also examined. Bond valuation and bond portfolio management strategies – duration and convexity – are covered in depth. Treasury securities and STRIPS, corporate bonds, municipal bonds, term structure of interest rates, mortgage market – mortgage backed securities and CMO's, bonds with embedded options, and interest rate risk management and swaps are addressed. This course serves as a basis for the Financial Analysts Program.

Classes: 6 hrs. a week. 7 weeks. Lab: 16 hrs.

6671.1.(2) Financial Markets and Institutions

This course will deal with the structure and function of Canadian financial institutions such as: banks, brokers and investment banks, insurance companies and mutual funds. The role of each type of institutions in the economy will be discussed as well as regulation of the industry. The main emphasis of the course will be on the institutions as businesses; their profit and risk structure.

6676.1(2) International Business Financing and Banking

This course is organized around two themes – (i) the concept of multinational firm and the financial management decisions it takes in a multi currency world and (ii) the challenges faced in the international banking system of asset/liability management, off shore financial centers, external debt and rescheduling and increased regulatory and supervisory measures.

6690.1(2) Special Topics in Finance and Research Methodology

This course focuses on the tools needed to carry out successful empirical research in functional areas of Finance, namely, corporate, derivatives, investments and portfolio management. Topics covered include an application of statistical model building to research in Finance focusing on special topics in Finance such as market efficiency, performance evaluation techniques, performance decomposition (market timing, selectivity and asset allocation), option combinations, strategies, implied volatilities and sensitivity analysis. Analysis of IPO under pricing and performance persistence measures are also covered.

6692.0 Management Research Project

This course builds on the statistical and economic tools learned in MFIN 6603 and MFIN 6609 to enable students to carry out successful theoretical and empirical research in functional areas of Finance, namely, corporate, derivatives, investments and portfolio management. The major topics include market efficiency, extensions to single- and multi-index models, performance evaluation models and decomposition of relative performance, performance persistence measurements, an evaluation of IPO's underpricing, an evaluation of boundary conditions for option strategies and pricing models and special issues in behavioral finance.

Master of Management – Co-operatives and Credit Unions (MMCC)

Program Coordinator: J. Chamard, Management

The MMCCU program is a distance learning (WebCT-based) program designed to allow managers of co-operatives and credit unions to study while they work and to develop the skills needed to run a co-operative business in a rapidly shrinking world.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, MMCC 5500.1(2) was formerly MMC 500.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE

ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
MMC 500	MMCC 5500	MMC 600	MMCC 6600
MMC 510	MMCC 5510	MMC 610	MMCC 6610
MMC 520	MMCC 5520	MMC 620	MMCC 6620
MMC 530	MMCC 5530	MMC 630	MMCC 6630
MMC 540	MMCC 5540	MMC 640	MMCC 6640
MMC 550	MMCC 5550	MMC 650	MMCC 6650
		MMC 660	MMCC 6660

The following courses are open only to students formally enrolled in the Masters in Management of Co-operatives and Credit Unions and with permission of the MMCC Co-ordinator to students registered in other masters' programs.

5500.1(2) Philosophical Origins and Historical Evolution of Co-operative Governance and Business Practice

This course uses readings, discussion groups, lecturers, seminars and papers to communicate the nature and development of co-operative values over the last 180 years and to indicate their current relevance in our society.

5510.1(2) The Emerging Global Economy and Society from a Co-operative Perspective

This course uses readings, discussion groups, lectures, seminars, and papers to develop an understanding of the nature of the global economy. Among the topics covered will be monetary and fiscal theory, international trade and finance theory and policy, and the nature and impact of globalization trends.

5520.1(2) Comparative Co-operative Practice I: Variety and Range of Co-operative Business

Prerequisite: MMCC 5500.1(.2) and 5510.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to explore the range of businesses that are organized as co-operatives and to understand the connection between co-operative forms and the human needs that they serve.

5530.1(2) Co-operative Financial Analysis and Management I

Prerequisite: MMCC 5500.1(.2) and 5510.1(.2).

This course uses readings, discussion papers, lectures, seminars and papers to explore the strengths and limitations of financial statements so as to understand how performance measurement systems appropriate to management of co-operatives and credit unions can be developed.

5540.1(2) The Emerging Global Economy and Society from a Co-operative Perspective II

Prerequisite: MMCC 5500.1(.2) and 5510.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to continue the discussion (which started in MMCC 510) of the impact of globalization on the generation of goods and services, the ecology of the planet, the distribution of wealth and the role of governments and the location and nature of decision making in the global economy.

5550.1(2) Field Research: Study Visits to Exemplars of Excellent Co-operative Business Practice

Prerequisite: MMCC 5520.1(.2), 5530.1(.2) and 5540.1(.2).

This course consists of a study tour, preceded by appropriate readings, to a co-operative or credit union that is perceived to be an exemplar of excellence in management and performance. The trip is to be analysed with reference to the applicability of observed practices to the home institution of the student.

6600.1(2) Comparative Co-operative Practice II: Co-operative Innovations and Best Practice

Prerequisite: MMCC 5550.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to develop an analysis and understanding of best management practice in co-operatives and credit unions. The principles of benchmarking as well as topics such as socialization, perception, attribution, motivation, learning and organizational design, structure, and culture will lay a theoretical basis for the analysis.

6610.1(2) Technology, Communication and Co-operation

Prerequisite: MMCC 5550.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to develop an understanding of available advanced technologies and how they have (or have not) been used to advantage by co-operatives and credit unions.

6620.1(2) Marketing the Co-operative Advantage: Co-operative Education, Member Relations and Marketing

Prerequisite: MMCC 5550.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to develop an understanding of marketing principles from the perspective of a co-operative business. Market research carried out by co-operatives around the world will be reviewed. Research methodology will be explored including member communication, surveys, sales analysis and focus groups.

6630.1(2) Co-operative Financial Analysis and Management II

Prerequisite: MMCC 5550.1(.2).

Building on MMCC 5530, this course uses readings, discussion groups, lectures, seminars and papers to develop a strong capacity for financial analysis and financial management. There will be a particular focus on the nature of co-operative capital, its development and retention. The course will enable managers to acquire the tools needed to develop a balanced scorecard approach tailored to the needs of their particular co-operative, community and society.

6640.1(2) The Co-operative Management Approach I: Governance, Planning and Strategic Analysis

Prerequisite: MMCC 6600.1(.2), 6610.1(.2), 6620.1(.2), and 6630.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to develop student skills in analysing governance issues, planning processes, and approaches to strategy.

6650.1(2) The Co-operative Management Approach II: Leadership, Personnel and Management Style

Prerequisite: MMCC 6600.1(.2), 6610.1(.2), 6620.1(.2) and 6630.1(.2).

This course uses readings, discussion groups, lectures, seminars and papers to develop an appreciation of basic personnel functions such as recruitment, supervision, motivation and management issues in terms of how they can be dealt with in a manner consistent with co-operative leadership styles. The role of tools like conflict resolution, conciliation, mediation and arbitration will also be examined.

6660: Thesis: Co-operative Management Audit

Prerequisite: MMCC 6640.1(.2) and 6650.1(.2).

The thesis requires the student to apply the learning from all previous courses in the program to the situation of their home co-operative or credit union by proposing changes to any or all aspects of the organization so as to improve its operations and enhance its value to its members, governance issues, planning processes, and approaches to strategy.

Master of Science in Applied Science (APSC)

Program Coordinator: David H. S. Richardson, Dean of Science

Program Officer: Susan Dore

The following course descriptions are for the core courses available within the Masters of Science in Applied Science. For more details on the Program, see the Faculty of Graduate Studies and Research and the Graduate Programs subsections of Section 3 of the Academic Calendar.

Prerequisite for these courses: Graduate Standing

6600.0 Graduate Seminar

The instructional part of this course focuses on research project definitions, project planning and scientific writing. Students are expected to read articles chosen for discussion, contribute to the critiquing process and make several presentations during the course. Students are expected to attend a designated number of seminars either at Saint Mary's University or at other Halifax research institutions. Students normally enroll in this course in the first year of the Master of Science in Applied Science Program.

6601.1 Research Techniques I

Research Techniques I is an interdisciplinary course designed to introduce students to a range of issues and concepts in research techniques across a range of scientific disciplines. This course is divided into four modules: 1) Research Design, Scientific Method and Model Building; 2) Data Collection and Experimentation; 3) Data Analysis and Statistics and 4) Data Interpretation and Communication. There are approximately three (3) hours of lecture/seminar and associated laboratory/demonstration/seminar work per week.

6602.2 Research Techniques II

Students will be assigned to two project-oriented modules. Each module will include lectures/seminars and laboratory work/independent study. In each module, students will select a research problem and will be required to understand the theoretical basis underlying the analysis of the problem and the practical procedures necessary to solve the problem.

6603.0 Thesis I

Students enroll in this course in May after completing APSC 6600, APSC 6601 and APSC 6602. This course is taken during the first year of enrollment in the Master of Science in Applied Science program. The research will be conducted under the supervision of a faculty member and Supervisory Committee.

6604.0 Thesis II

Prerequisite: APSC 6603.0

This course is taken during the second year of enrollment in the Master of Science in Applied Science program. The research will be conducted under the supervision of a faculty member and Supervisory Committee.

6605.1 (.2) Directed Studies

This course is taken during the first or second year of enrollment in the Master of Science in Applied Science program. The directed studies will be conducted under the supervision of a faculty member following approval by the Program Coordinator.



Huskies Linebacker Matthew Fox tackles an opponent during the Saint Mary's – Laval game on September 24, 2005 at Huskies Stadium.

Mathematics and Computing Science (MATH, CPSC, and CSCI)

Chairperson, Professor	P. Lingras
Professors	R. Dawson, B. Hartnell, M.T. Kiang, P. Muir
Associate Professors	A. Finbow, W. Finden, S. Konstantinidis, P. Scobey
Assistant Professors	J. Irving, B. Khan, N. Linney, S. Oore
Adjunct Professors	J. MacInnes
Computing Science Advisor:	S. Konstantinidis
Co-op Advisor:	S. Oore

The Department of Mathematics and Computing Science offers a broad range of courses, including introductory courses intended for students with little mathematical or computing science background; preparatory courses for students intending to enter fields requiring mathematics or computing science; and specialized courses for more advanced mathematics and computing science students.

Students can obtain a degree in Computing Science in one of two possible areas. A more traditional degree in Computing Science involving an emphasis in Mathematics is offered as a minor, concentration, major, or honours. This option has the designation CPSC. These programs are for students who are primarily interested in the technical aspects of Computing Science. Alternatively, students interested in applying the technical aspects of Computing Science to business can obtain a major in Computing Science and Business Administration. This option has the designation CSCI and is available as a major only. Note too that all computing science courses offered by this Department have a CSCI designation, whether applied to a CPSC or CSCI degree designation. Both of these Computing Science options have a Co-op option.

Details on the computing science programs are found below immediately following the detailed course descriptions for mathematics.

Co-operative Education Program (Co-op)

This program is designed for students in the honours or major programs who wish to gain relevant work experience while attending university. The general requirements for the Co-operative Education program can be found in the Faculty of Science regulations, Co-operative Education Section, of this *Calendar*. Interested students should contact the Department of Mathematics and Computing Science Co-op advisor before the end of their first year.

Credit for Duplicate Courses

No student who has received credit for an advanced mathematics or computing science course may later receive credit for a mathematics or computing science prerequisite to the course without permission of the Department. With

renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level or under a different number.

Upper Level Mathematics Course Offerings

In order to help major and honours students plan their course of study, each year during the second semester, the Department typically offers 4000 level Mathematics courses: (1) MATH 3405 and MATH 3406 are offered every year. (2) MATH 3401, MATH 3402, MATH 4408, MATH 4409, MATH 4420, MATH 4421, MATH 4434, MATH 4436, and MATH 4437 are offered in academic years in which the fall term is an even numbered year. (3) MATH 3456, MATH 3457, MATH 4426, MATH 4427, MATH 4430, MATH 4432, MATH 4441 and MATH 4442 are offered in academic years in which the fall term is an odd numbered year. Although every effort will be made to keep this schedule, no absolute guarantee can be made.

Mathematics (MATH)

Preparatory Courses

MATH 0010.1(.2)/0011.1(.2) and 0050.1(.2)/0051.1(.2) are accepted as the equivalent of Nova Scotia Grade 12 Mathematics. MATH 0010.1(.2)/0011.1(.2) are intended primarily for students entering natural sciences or mathematics, and include emphasis on trigonometry as well as algebra. MATH 0050.1(.2)/0051.1(.2) are for commerce and social science students who do not have Nova Scotia Grade 12 Mathematics or equivalent.

MATH 1210.1(.2)/1211.1(.2) are the first courses in calculus, and MATH 2310.1(.2)/2311.1(.2) combined form the natural calculus sequel.

MATH 2320.1(.2) provides an introduction to linear algebra, while further topics in linear algebra are covered in MATH 2321.1(.2).

Specialized Courses

Students may obtain a degree which has a special emphasis in one of the areas indicated below by choosing the majority of their optional courses from those listed following the area of selection:

Special Emphasis in Pure Mathematics:

MATH 2370.1(.2); 3401.1(.2); 3402.1(.2); 4420.1(.2); 4421.1(.2); 4426.1(.2); 4427.1(.2); 4430.1(.2); 4432.1(.2); 4436.1(.2); 4437.1(.2); 4441.1(.2); and 4442.1(.2).

Special Emphasis in Applied Mathematics:

MATH 2308.1(.2); 2309.1(.2); 2315.1(.2); 2316.1(.2); 3401.1(.2); 3402.1(.2); 3405.1(.2); 3406.1(.2); 4408.1(.2); 4409.1(.2); 3414.0; 3415.1(.2); 3416.1(.2); 3445.0; 3456.1(.2); and 3457.1(.2).

Students who lack the stated high school courses prerequisite for credit courses in mathematics or computing science are advised to enrol in MATH 0010.1(.2)/0011.1(.2) in Year 1.

Requirements for a Major in Mathematics

A major in mathematics is offered for students working towards the degrees of Bachelor of Arts and Bachelor of Science and for students of above average ability working towards the degrees of Bachelor of Arts (Honours) and Bachelor of Science (Honours).

The Departmental requirements for a major in mathematics are:

1. MATH 1210.1(.2)/1211.1(.2)
2. CSCI 1226.1(.2)/1227.1(.2)
3. MATH 2310.1(.2)/2311.1(.2)
4. MATH 2320.1(.2)/2321.1(.2)
5. MATH 4420.1 (.2) AND MATH 4441.1 (.2)
6. A minimum of eighteen (18) additional credit hours in mathematics courses numbered 1216 or 2305 or above, chosen by the student in consultation with the Department. At least six (6) credit hours must be at the 3000 level or above.

Requirements for a Double Major in Mathematics and a subject other than Computing Science or Physics

The Departmental requirements for a double major in mathematics and a subject other than computing science or physics are, with the exception of requirement 5, the same as the requirements for a major in mathematics.

Requirements for Honours in Mathematics

The honours program is designed for mathematics majors of above average ability. Mathematics majors in Year 2 with an overall quality point average of at least 2.50, and with a quality point average of at least 3.00 in their mathematics courses, should consider enrolling in the honours program, and are advised to consult with the Department before making a final decision.

The Departmental requirements for honours in mathematics are:

1. MATH 1210.1(.2)/1211.1(.2)
2. CSCI 1226.1(.2)/1227.1(.2)
3. MATH 2310.1(.2)/2311.1(.2)
4. MATH 2320.1(.2)/2321.1(.2)
5. MATH 4420.1 (.2), 4421.1 (.2), 4441.1 (.2) AND 4442.1 (.2).
6. A minimum of thirty (30) additional credit hours in mathematics courses numbered 1216 or 2305 or above, chosen by the student in consultation with the Department. At least twelve (12) credit hours must be at the 3000 level or above.

Notes:

(i) Students must obtain formal Departmental approval of their program at the time of their declaration to enter the major or honours program, as well as for any subsequent changes.

(ii) Students taking a major or honours in mathematics are permitted credit for at most one of BIOL 2308.1(.2), ECON 2207.1(.2), MATH 1207.1(.2), MGSC 1207.1(.2), or PSYC 2350.1(.2); and shall not be permitted credit for any of these courses simultaneously with or subsequent to MATH 1216.1(.2) or 2316.1(.2).

(iii) Major and honours students in mathematics can use CSCI courses to satisfy Faculty of Science regulation 6e or 12b.

Requirements for a Double Honours in Mathematics and a subject other than Computing Science or Physics

The Departmental requirements for a double honours in mathematics and a subject other than computing science or physics are the same as the requirements for a major in mathematics plus six (6) additional credit hours in mathematics courses numbered 3000 level or above.

Requirements for a Minor in Mathematics

It is possible to minor in mathematics by completing the equivalent of five (5.0) credits in mathematics in addition to satisfying Faculty of Science regulations for a minor. These courses must include:

- a. MATH 1210.1(.2), 1211.1(.2), 2310.1(.2), 2311.1(.2), 2320.1(.2), and 2321.1(.2) (3.0 credits)
- b. An additional twelve (12) credit hours in mathematics numbered 1200 or above.

Concentration in Mathematics (B.A.-General)

To obtain a concentration in Mathematics in partial fulfillment of the B.A. General degree (i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours), a minimum of twenty-four (24) credit hours in MATH is required; also a minimum cumulative quality point average of 2.00 is required. Further details are available from the chairperson.

Requirements for a Double Major or Double Honours in Mathematics and Physics

Detailed requirements for these programs are found above in the Department of Astronomy and Physics.

Certificate in the Mathematical Sciences for Education**1. Introduction**

The Certificate in the Mathematical Sciences for Education is intended to provide holders of a Bachelor of Education (B.Ed.) degree with a broad background in mathematics, statistics, and computing science, enabling them to teach high school mathematics courses effectively. Teachers who complete this program will have a deep understanding of the mathematics that they teach, and a familiarity with the various contexts in which their own university-bound students will use that mathematics. A teaching methods course is an integral part of this program.

2. Admission

To gain entry to this program, students must have a B.Ed. (or equivalent). They must also have at least Grade 12 precalculus mathematics (or equivalent) before starting MATH 1210. (Among possible equivalents are MATH 1190 and some non-credit courses offered at Saint Mary’s. **Note:** these do not form part of the Certificate Program.) Precalculus mathematics is not a prerequisite for MATH 1202 or MATH 1207.

Students must register in the actual program before starting courses.

3. Courses

Students must take at least thirty (30) credit hours as delineated below. Where the student has already obtained credit for one or more of these courses (or equivalents) as part of a program leading to an earlier certification by the Nova Scotia Department of Education, MATH or CSCI courses numbered 1200 or above and acceptable to the Department of Mathematics and Computing Science may be substituted. (Students should note that each individual’s program must be approved ahead of time by the Registrar for Teacher Certification in order to be recognized for teacher certification in Nova Scotia.)

MATH 1202.1(.2)	Concepts and Topics in Mathematics
MATH 1203.1(.2)	Concepts in High School Mathematics
MATH 1207.1(.2)	Survey of Statistics
MATH 1210.1(.2)	Intro Calculus I
MATH 1211.1(.2)	Intro Calculus II
MATH 1216.1(.2)	Intro Mathematical Statistics
CSCI 1226.1(.2)	Introduction to Computing Science and Programming
MATH 2305.1(.2)	Discrete Mathematics I
MATH 2320.1(.2)	Linear Algebra I
EDUC 2523.1(.2)	Mathematics

4. To obtain the Certificate, a student in this program must achieve a minimum grade of C in all courses forming part of the certificate and hence have a minimum cumulative quality point average of 2.00.

5. The Department of Mathematics and Computing Science restriction on receiving credit for an advanced course, and then receiving credit for a course prerequisite to the advanced course, and the restriction on taking MATH 1207.1(.2) and MATH 1216.1(.2), do not apply to this Certificate program.

6. All courses must normally be taken at Saint Mary’s University. In very exceptional circumstances, the Department of Mathematics and Computing Science may recommend to the Acting Dean of Education for one or more courses to be taken at another university on a Letter of Permission. Courses taken at or transferred from other universities must meet the program’s requirement of a minimum grade of C.

7. A student who intends to use this program to obtain a license upgrade or other professional certification **MUST** obtain **prior** written approval from the appropriate

authorities (in Nova Scotia, the Registrar for Teacher Certification). **The student is responsible for obtaining such approval;** Saint Mary’s University takes no responsibility for the approval of individual programs of study.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, MATH 0010.1(.2) was formerly MAT 010.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #’s	New Course #’s	Previous Course #’s	New Course #’s
MAT 010	MATH 0010	MAT 405	MATH 3405
MAT 011	MATH 0011	MAT 406	MATH 3406
MAT 050	MATH 0050	MAT 408	MATH 4408
MAT 051	MATH 0051	MAT 409	MATH 4409
MAT 190	MATH 1190	MAT 414	MATH 3414
MAT 202	MATH 1202	MAT 415	MATH 3415
MAT 207	MATH 1207	MAT 416	MATH 3416
MAT 210	MATH 1210	MAT 420	MATH 4420
MAT 211	MATH 1211	MAT 421	MATH 4421
MAT 212	MATH 1212	MAT 426	MATH 4426
MAT 216	MATH 1216	MAT 427	MATH 4427
MAT 301	MATH 2301	MAT 430	MATH 4430
MAT 303	MATH 2303	MAT 432	MATH 4432
MAT 305	MATH 2305	MAT 434	MATH 4434
MAT 308	MATH 2308	MAT 436	MATH 4436
MAT 309	MATH 2309	MAT 437	MATH 4437
MAT 310	MATH 2310	MAT 441	MATH 4441
MAT 311	MATH 2311	MAT 442	MATH 4442
MAT 315	MATH 2315	MAT 445	MATH 3445
MAT 320	MATH 2320	MAT 456	MATH 3456
MAT 321	MATH 2321	MAT 457	MATH 3457
MAT 370	MATH 2370	MAT 490-499	MATH 4490-4499
MAT 401	MATH 3401		
MAT 402	MATH 3402	MAT 500	MATH 4500

0010.1(.2) Precalculus I

Elementary set theory and the real number system. Factorization. Inequalities, absolute values, and interval notation. Techniques of solving a variety of equations and inequalities in a single variable. The Cartesian plane and representation of ordered pairs of real numbers. Elements of analytic geometry. Relations, functions, and graphs, with emphasis on the polynomial, exponential, logarithmic functions, and polynomial and rational equations.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: This is a preparatory course. It does not carry a credit value; therefore it cannot be counted in the number of credits required for a degree, diploma or certificate.

0011.1(.2) Precalculus II

Prerequisite: MATH 0010.1(.2).

Trigonometry, inverse trigonometric functions. Complex numbers. Matrices, determinants, and system of equations. System of inequalities. Sequences and series. Permutations, combinations, and the binomial theorem. Mathematical induction.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: This is a preparatory course. It does not carry a credit value; therefore it cannot be counted in the number of credits required for a degree, diploma or certificate.

0050.1(.2) Algebra for Commerce and the Social Sciences I

Elementary set theory and the real number system. Factorization. Inequalities, absolute values, and interval notation. Techniques of solving a variety of equations and inequalities in a single variable. The Cartesian plane and representation of ordered pairs of real numbers. Elements of analytic geometry. Relations, functions, and graphs, with emphasis on the polynomial, exponential, logarithmic functions, and polynomial and rational equations.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: This is a preparatory course. It does not carry a credit value; therefore it cannot be counted in the number of credits required for a degree, diploma or certificate.

0051.1(.2) Algebra for Commerce and the Social Sciences II

Prerequisite: MATH 0010.1(.2) or MATH 0050.1(.2) or equivalent.

Polynomials and rational functions. Matrices, determinants, and systems of equations. Systems of inequalities. Introduction to linear programming. Sequences and series. Permutations, combinations and the binomial theorem. Probability. Emphasis throughout on the skills needed to solve "word problems".

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: This is a preparatory course. It does not carry a credit value; therefore it cannot be counted in the number of credits required for a degree, diploma or certificate.

1190.1(.2) Pre-Calculus Review

Prerequisite: the equivalent of Nova Scotia precalculus Grade 12 or MATH 441 which is the prerequisite for MATH 1210.1(.2).

The following topics will be covered, in greater depth than in Grade 12 Mathematics courses: Manipulation of algebraic expressions. Solving equations and inequalities. Functions and relations including discussion of polynomials, rational functions, trigonometric functions, inverse trigonometric functions, logarithms, and exponentials. Analytic Geometry. Derivatives and integrals of simple functions.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Notes: (i) Students who have passed MATH 1190.1(.2) are exempted from writing the pre-test for MATH 1210.1(.2). (ii) MATH 1190.1(.2) is given in the fall and summer of each year; MATH 1210.1(.2) is given in the winter of each year; and MATH 1211.1(.2) is given in the summer of each year. Thus, if you do not meet or exceed the standards set by the department as indicated on the pre-test, it is possible to take MATH 1190.1(.2) and still complete the Calculus in one calendar year.

(iii) Students receiving a grade of less than C are advised not to proceed with MATH 1210.1(.2).

(iv) This course does not count as one of the mathematics credits required for the degree of Bachelor of Science, or towards the requirements for a major or honours in mathematics and computing science. Students should be aware, therefore, that they may not be able to qualify for graduation by completing the minimum number of courses originally stipulated for their program.

(v) This is a credit course but can only be counted as an elective.

1202.1(.2) Concepts and Topics in Mathematics

Prerequisite: Nova Scotia Academic Grade 12 Mathematics (or equivalent)

This course will deal with fundamental concepts and topics in Mathematics, including the axioms of arithmetic and algebra, the integer, rational, and real systems, sets and logic.

Note: This course is intended to provide the necessary MATH background for elementary teachers.

Classes 3 hrs. and recitation 1.5 hrs. a week. 1 semester.

1203.1.(2) Concepts in High School Mathematics

Prerequisites MATH 1202.1(.2) and Nova Scotia Grade XII Pre-Calculus MATH or equivalent.

This course will deal with the mathematical background of topics such as algebra, geometry, probability, and statistics that are in the Nova Scotian junior high and high school curriculum. This course, in conjunction with MATH 1202 and other courses, is intended to provide the necessary MATH background for junior high school teachers. The material will be covered in significantly greater depth than would actually be taught in the school classroom.

Classes 3 hrs. a week plus recitations 1.5 hrs. a week. 1 semester.

1207.1.(2) Survey of Statistics

Prerequisite: The equivalent of Nova Scotia Precalculus Mathematics 12 or Mathematics 12 Academic.

This course provides an introduction to statistics appropriate for high school teachers. The emphasis will be on developing a practical approach to data analysis rather than on mathematical theory. Topics will include exploratory data analysis, elementary probability theory, confidence intervals, hypothesis testing, ANOVA, and regression. As well, students will be introduced to the use of computers in data analysis.

Classes 3 hrs. plus recitation 1.5 hrs. a week. 1 semester.

Note: No credit will be given for this course simultaneously with or subsequent to credit given for BIOL 2308.1(.2), ECON 2207.1(.2), ECON 3303.1(.2), MATH 1216.1(.2), MGSC 2207.1(.2), MGSC 3303.1(.2), or PSYC 2350.1 (.2).

1210.1.(2) Introductory Calculus I

Prerequisite: The equivalent of Nova Scotia Grade Precalculus Mathematics 12.

Topics will include: functions, limits, continuity, derivatives, the chain rule, implicit differentiation, inverse functions, exponential and logarithmic functions, the mean value theorem, indeterminate forms, L'Hôpital's Rule, curve sketching, maximum and minimum problems, antiderivatives, area under a curve.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: Students who do not meet or exceed the standards set by the department as indicated on at least one of the two pre-tests in this course will be required to withdraw from this course and will be eligible to re-register only after successful completion of MATH 1190.1(.2).

1211.1.(2) Introductory Calculus II

Prerequisite: MATH 1210.1(.2).

Topics will include: area under a curve, the definite integral, the fundamental theorem of calculus, applications such as volume, work, inverse trigonometric functions, techniques of integration, L'Hôpital's Rule, improper integrals, arc length, surface area, parametric equations, polar coordinates, simple differential equations, approximate integration.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

1212.1.(2) Calculus II for Engineers

Prerequisite: MATH 1210.1(.2).

Applications of integration: area between curves, volumes of revolution, work, average value of function. Techniques of integration: integration by parts, trigonometric integral, trigonometric substitutions, partial fractions, substitutions. More applications of integration: separable differential equations arc length, area of surface of revolution, applications to engineering such as moments, center of mass, hydrostatic pressure and force, applications to Economics and Biology. Parametrically defined curves, tangents, arc length, polar coordinates, areas and length in polar coordinates. Sequences and series, the integral test, and the comparison test, alternating series, absolute convergence. Power series, Taylor and MacLaurin series. The binomial series, approximation by Taylor polynomials.

Classes 3 hours plus recitations 1 1/2 hours a week. 1 semester.

Note: Since this course replaces MATH 1211.1(.2) for engineering students only, these students cannot receive a credit for both MATH 1211.1(.2) and MATH 1212.1(.2).

1216.1.(2) Introduction to Mathematical Statistics

Prerequisite: MATH 1210.1(.2).

This course provides a mathematically rigorous introduction to statistics, based on calculus. Introductory probability theory is covered, including probability distributions and densities, random variables, the central limit theorem, and counting methods. Statistical inference is then covered, including estimation and confidence intervals, hypothesis tests and the role of the likelihood function. Specific methodologies are discussed, including goodness-of-fit tests, regression, analysis of variance and nonparametric methods. As well, students will be introduced to the use of computers in data analysis.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

2301.1.(2) Linear Algebra for Engineers

Prerequisite: MATH 1211.1(.2)/1212.1(.2).

Geometric vectors in three dimensions, dot product, norm cosine formulas, Schwartz inequality, and cross product. Equations of lines and planes, normal vectors. Complex numbers, the complex plane, real and imaginary parts, complex conjugate, magnitude and phase, Euler's formula, roots of unity, the elementary complex functions: sine, cosine, exponential and logarithm. Systems of equations,

Gaussian elimination using matrices, row echelon form, applications. Matrix algebra, matrix multiplication, matrix inverse, application to networks and graphs. Determinants and Cramers rule. Linear independence, bases, dimensions and rank. Linear transformations: definition and examples, null space and range. Eigenvalues and eigenvectors, applications, diagonalization of symmetric matrices. Inner product spaces, least squares problems, orthonormal sets, and Gram-Schmidt orthogonalization process.

Classes 3 hours plus recitation 1 1/2 hours a week. 1 semester.

Note: Students cannot receive credit for both MATH 2301.1(.2) and MATH 2320.1(.2).

2303.1(.2) Differential Equations for Engineers

Prerequisite: MATH 1212.1(.2) and 2301.1(.2). Students must co-register in MATH 2311.1(.2).

First order differential equations: separable equations; exact equations; integral equations; integrating factors; linear differential equations; modelling electric circuits. Second order differential equations: homogeneous linear equations; constant coefficient equations; Euler-Cauchy equations; Wronskian; non-homogeneous equations; undetermined coefficients; variation of parameters; modelling forced oscillations and resonance modelling electric circuits phasor methods for particular solutions. Power series solutions. Legendre's equation. Laplace transform, inverse transform. Linearity; transforms of derivatives and integral; s-shifting; t-shifting; unit step. Differentiation and integration of Laplace Transforms. Partial fractions method for inverse Laplace Transform. Applications to systems of differential equations, convolutions, the delta function, impulse response, transfer function. Periodic driving functions and Laplace Transforms. Fourier series; even and odd functions; half range expressions; Complex Fourier series; applications to systems driven by various periodic functions (e.g., square wave, saw tooth, etc.) The line spectrum.

Classes 3 hours plus recitation 1 1/2 hours a week. 1 semester.

2305.1(.2) Survey of Discrete Mathematics

Prerequisite: MATH 1210.1(.2)/1211.1(.2).

This course provides an overview of a number of topics in discrete mathematics including sets, set operations, logic, proof techniques such as mathematical induction and proof of contradiction, elementary counting techniques and combinatorics as well as applications.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: No credit will be given for this course simultaneously with or subsequent to MATH 1205.1(.2).

2308.1(.2) Numerical Analysis I

Prerequisite: MATH 1210.1(.2)/1211.1(.2), CSCI 1226.1 (.2) or equivalent programming experience.

Discussion of errors in numerical analysis. Theoretical and practical considerations of numerical procedures in non-linear equations in one variable, systems of linear equations, and systems of non-linear equations, interpolation, polynomial approximation and integration.

Classes 3 hrs. plus recitation 1.5 hrs. a week. 1 semester.

2309.1(.2) Numerical Analysis II

Prerequisite: MATH 3308.1(.2).

Select topics for MATH 2308 may be further explored. Other topics may include numerical procedures in rational function approximation, two dimensional integration, linear least squares, ordinary differential equations, eigenvalues and eigenvectors.

2310.1(.2) Intermediate Calculus I

Prerequisite: MATH 1210.1(.2)/1211.1(.2).

This course consists of the study of the "epsilon-delta" definition of limits and continuity; the least upper bound axiom; completeness of the real line; the intermediate value theorem; and the monotone convergence theorem. This course also provides an introduction to compactness in various forms. Infinite sequences and series are discussed from a more rigorous perspective than MAT 1211. These ideas are extended to two-dimensions and to the complex numbers. Additional topics may include: elementary asymptotics; the big-Oh notation; power series as generating functions; uniform convergence and uniform continuity; and Riemann sums and integration.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

2311.1(.2) Intermediate Calculus II

Prerequisite: MATH 2310.1(.2) or both MATH 1212.1(.2) and 2301.1(.2).

Limits and continuity of functions of several variables, partial derivatives, and the chain rule.

directional derivatives and gradient vector, the total differential, tangent planes and normals to a surface, higher order partial derivatives, extrema of functions of two variables. The double integrals, iterated integrals, double integrals in polar coordinates, applications of double integrals, the triple integral, triple integrals in cylindrical and spherical coordinates, applications of triple integrals vector fields, divergence and curl of vector fields, line integrals, path-independent line integrals. Green's theorem, Stokes theorem, and the divergence theorem.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

2315.1(.2) Introduction to Probability Theory

Prerequisite: MATH 1210.1(.2).

This course covers the probability theory which underlies fundamental statistical concepts. It assumes a good knowledge of first-year calculus, and may cover the following topics: probability, conditional probability, Bayes' Theorem, random variables, order statistics, discrete distributions, continuous distributions, expected values, moments, and special distributions including the Poisson, normal, binomial, exponential, and gamma distributions.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

2320.1(.2) Linear Algebra I

Prerequisite: MATH 1210.1(.2)/1211.1(.2).

This course presents the basic concepts and techniques of linear algebra, including Gaussian elimination, matrix algebra, vector spaces, determinants, eigenvalues, eigenvectors, diagonalization and linear transformations, together with various applications and computational methods.

Classes 3 hrs. plus recitation 1.5 hrs. a week. 1 semester.

Note: Students cannot receive credit for both MATH 3320.1(.2) and MATH 2301.1(.2).

2321.1(.2) Linear Algebra II

Prerequisite: MATH 2320.1(.2).

This course continues MATH 2320.1(.2) with further concepts and theory of linear algebra. Topics include inner product spaces, orthogonality, Gram-Schmidt Process, linear transformations and their matrix representation, change of basis and similarity, further study of eigenvalues and eigenvectors, canonical forms, with applications to linear differential equations and quadratic forms.

Classes 3 hrs. plus recitation 1.5 hrs. a week. 1 semester.

2370.1(.2) Problem-Solving Seminar

3401.1(.2) Sequences, Series and Improper Integrals

Prerequisite: MATH 2311.1(.2).

Infinite sequences and series, convergence tests, grouping and rearrangements, sequences and series of functions, pointwise and uniform convergence, power series, double sequences and series, differentiation under the integral sign, improper single and double integrals, functions defined by improper integrals, Fourier series and transforms.

3402.1(.2) Vector Calculus

Prerequisite: MATH 2311.1(.2) and 2320.1(.2).

Topology of R^n , open sets, closed sets, cluster points, compactness, connectedness, completeness. Transformations, linear transformations, continuity, Extreme and Intermediate Value Theorems, uniform continuity of transformations, differentiability of transformations. The chain rule, Taylor's Theorem, Implicit and Inverse function theorems, maxima and minima, the method of Lagrange multipliers. Multiple Integrals: existence, properties, change of variables theorem and evaluation of multiple integrals. A review of vector field theory, line and surface integrals, the integral theorems of Green and Stokes, the divergence theorem.

3405.1(.2) Differential Equations I

Prerequisite: MATH 2311.1(.2) or permission of instructor.

First order differential equations, linear differential equations with constant coefficients, Laplace transforms, linear differential equations with variable coefficients (series solutions), applications.

Note: Students cannot receive credit for both MATH 2303.1(.2) and MATH 3405.1(.2).

3406.1(.2) Differential Equations II

Prerequisite: MATH 2311.1(.2); MATH 2303.1(.2) or MATH 3405.1(.2); MATH 2301.1(.2) or MATH 2320.1(.2). Students who do not meet these exact prerequisites may be permitted to take this course with permission of instructor.

Theory of systems of linear differential equations, linear systems with constant coefficients, solution by matrix methods, applications. Nonlinear differential equations: existence and uniqueness of solutions, stability and the phase plane, Liapunov Method, various equations occurring in applications are qualitatively analyzed, chaos, and bifurcation.

3414.0 Statistical Simulation Theory

3415.1(.2) Mathematical Statistics

Prerequisite: MATH 2311.1(.2) and a course in computer programming language.

This course studies mathematical foundations of statistics, including both parametric and non-parametric inferences. Emphasis is placed on the properties of random variables and their distributions. The estimation of parameters by using sample statistics and tests of related hypotheses are included. Applications to computer science are studied.

3416.1(.2) Mathematical Probability

Prerequisite: MATH 2311.1(.2) or permission of instructor.

The aim of the course is to introduce students to mathematical (non-measure-theoretic) foundations of probability and elements of stochastic processes. The topics include conditional probabilities, conditional distributions, characteristic functions, limit theorems, Markov chains and Markov processes, birth and death processes and elementary queuing theory.

3445.0 Introduction to Operations Research**3456.1(2) Introduction to Applied Mathematics I**

Prerequisite: MATH 2303.1(2) or 3405.1(2).

Pointwise and uniform convergence of sequences and series of functions. Tests for uniform convergence, continuity, integral, and differentiability of functions defined by sequences and series. Pointwise and uniform convergence of improper integrals depending on a parameter. Tests for uniform convergences of improper integrals, consequences of uniform convergence of improper integrals, Gamma and Beta functions. Series solutions of Bessel, Legendre, and hypergeometric equations and their elementary properties. Two point boundary value problems, Green's functions, Sturm-Liouville problems, eigenfunction expansions. Fourier series and Fourier integrals.

3457.1(2) Introduction to Applied Mathematics II

Prerequisite: MATH 3456.1(2).

Classification of partial differential equations, linear and quasilinear first order equations, method of Lagrange. Classification and solutions of second order linear partial differential equations, the canonical forms. Modeling of wave, heat, and Laplace equations. Separation of variables, Green's functions, and Integral Transform methods. Existence and uniqueness theorems, numerical methods.

4408.1(2) Advanced Numerical Analysis I

Prerequisite: MATH 2309.1(2) or permission of instructor.

Theoretical and practical considerations of numerical analysis in the eigenvalue-eigenvector problem and in the solutions of ordinary differential equations.

4409.1(2) Advanced Numerical Analysis II

Prerequisite: MATH 4408.1(2).

Theoretical and practical considerations of numerical analysis in the solutions of ordinary and partial differential equations.

4420.1(2) Abstract Algebra I

Prerequisite: MATH 2321.1(2) or permission of instructor.

The study of algebraic structures, such as groups, rings, fields, posets, graphs, or universal algebras. The major emphasis will be on derivation of theory, with inclusion of applications and examples.

4421.1(2) Abstract Algebra II

Prerequisite: MATH 4420.1(2) or permission of instructor.

The further study of algebraic structures and their applications.

4426.1(2) Introduction to Combinatorics

Prerequisite: MATH 2311.1(2) or 2320.1(2) or permission of instructor.

This course will introduce the student to various enumeration techniques and will include such topics as permutations and combinations, recurrence relations and generating functions. Various finite structures and their applications will also be studied.

4427.1(2) Computational Methods in Graph Theory

Prerequisite: MATH 2311.1(2) or 2320.1(2) or permission of instructor.

This course discusses various graph theoretic algorithms and their application to different problems. Topics to be discussed will be chosen from the following: the connector problem, the shortest path problem, the Chinese Postman problem and Euler trails, matchings and their applications to the personnel and optimal assignment problems, colouring problems (with reference to timetabling) and flows in networks.

4430.1(2) Set Theory

Prerequisite: MATH 2311.1(2) or 2320.1(2).

Basic set theory will be developed using one of the widely accepted axiom systems. Alternate systems will be discussed. The topics will include: set operations, cardinality, ordered sets, well ordering, cardinal and ordinal numbers, and the axiom of choice.

4432.1(2) Elementary Topology

Prerequisite: MATH 2311.1(2) and 2321.1(2); MATH 4430.1(2) is recommended.

This course will begin with a study of the topology of metric spaces. Topics will include bounded and totally bounded sets, completeness and fixed point theorems. Following this, abstract topological spaces will be studied.

4434.1(2) Geometry

Prerequisite: MATH 2320.1(2) or 4420.1(2) or permission of instructor.

Many important ideas of modern mathematics, such as the axiomatic method, emerged from the study of geometry. This course examines topics in geometry from Euclid to the present day, which may include axiomatic geometry, constructive geometry, inversive geometry, projective geometry, non-Euclidean geometry, and combinatorial geometry.

Note: No credit will be given for this course subsequent to a directed study course on geometry [MATH 4490.1(2)].

4436.1(.2) Theory of Functions of a Complex Variable I

Prerequisite: MATH 2310.1(.2) and 2311.1(.2).

The complex plane. Elementary transformations and mappings, analytic functions, infinite series and uniform convergence. Differentiation and integration in the complex plane, residue. Harmonic functions, entire and meromorphic functions. Some principles of conformal mapping theory.

Note: No credit will be given for this course simultaneously with or subsequent to MATH 4435.0.

4437.1(.2) Theory of Functions of a Complex Variable II

Prerequisite: MATH 4436.1(.2).

A continuation of MATH 4436.1(.2). Further study of analytic functions and conformal mapping theory.

Note: No credit will be given for this course simultaneously with or subsequent to MATH 4435.0.

4441.1(.2) Real Analysis I

Prerequisite: MATH 2310.1(.2) and 2311.1(.2).

Sets, functions and relations, the real number field, the least upper bound axiom, countability, sequences and subsequences, accumulation points, metric spaces, continuous functions, uniform continuity, monotone and inverse functions, compactness and connectedness, series of functions, uniform convergence, integration and differentiation of series of functions.

Note: No credit will be given for this course simultaneously with or subsequent to MATH 4440.0.

4442.1(.2) Real Analysis II

Prerequisite: MATH 4441.1(.2).

Further topics on metric spaces. Baire category theorem, the space of continuous functions, fixed points and integral equations, Arzela-Accoli theorem, the Stone-Weierstrass theorem, Picard existence theorem for differential equations, Riemann Integrability, sets of measure zero, Lebesgue Theorem.

Note: No credit will be given for this course simultaneously with or subsequent to MATH 4440.0.

4490.1(.2) to 4499.1(.2) Directed Study in Mathematics

Prerequisite: permission of instructor.

This course is intended to supplement or provide an alternative to the regular mathematics courses in order to meet the special needs and interests of students. The course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

4500.0 Thesis

Prerequisite: permission of Department.

Research project in the mathematical sciences carried out by the student under the supervision of any member of the Department. The student will submit a thesis and present it orally. This course is open to 4th year honours students.

Directed study 6 hrs. a week. 2 semesters.

Computing Science (CPSC)

Coordinator S. Konstantinidis

Preparatory Courses

CSCI 1226.1(.2)/CSCI 1227.1(.2) is intended to be the first pair of courses for all students who intend to pursue further studies in computing science.

MATH courses that can be used as CSCI courses:

Each one of the following courses; MATH 2309, 4408 and 4409 can be used as a MATH course or CSCI course, but not both.

Requirements for a Concentration in Computing Science

A concentration in computing science is offered for students working towards the degree of Bachelor of Science. The Departmental requirements for a concentration in computing science are:

1. CSCI 1226.1(.2) and 1227.1(.2)
2. CSCI 2327.1(.2) and 2328.1(.2)
3. CSCI 2341.1(.2) and 2342.1(.2)
4. MATH 1210.1(.2) and 1211.1(.2)
5. Twelve (12) additional credit hours in CSCI courses numbered 2306 or above.
6. Additional Faculty of Science regulations: 3(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities; 3(c) twelve (12) credit hours in Arts/Economics; 3(e) twenty-four (24) credit hours in other sciences (not MATH or CSCI); and 3(f) twelve (12) credit hour free electives.

Requirements for a Major in Computing Science

A major in computing science is offered for students working towards the degree of Bachelor of Science. The Departmental requirements for a major in computing science are:

1. CSCI 1226.1(.2) and 1227.1(.2)
2. CSCI 2307.1(.2), 2327.1 (.2) and 2328.1(.2)
3. CSCI 2341.1(.2) and 2342.1(.2)
4. CSCI 3428.1(.2), 3430.1(.2) and 3431.1(.2)
5. MATH 1210.1(.2) and 1211.1(.2)
6. MATH 2305.1(.2), 2308.1(.2), 1216.1(.2), and 2320.1(.2)
7. Three (3) additional credit hours in MATH courses numbered 2306 or above.
8. Nine (9) additional credit hours in CSCI courses numbered 2306 or above, at least six (6) credit hours of which are at the 3000 level or above.
9. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3)

credit hours in Humanities, 6(c) twelve (12) credit hours in Arts/Economics, 6(e) twenty-four (24) in other sciences (not MATH or CSCI), 6(f) eighteen (18) credit hours of free electives.

Requirements for a Double Major in Computing Science and Mathematics

1. MATH 1210.1(.2) and MATH 1211.1(.2)
2. CSCI 1226.1(.2) and CSCI 1227.1(.2)
3. MATH 2310.1(.2) and MATH 2311.1(.2)
4. MATH 2320.1(.2) and MATH 2321.1(.2)
5. CSCI 2307.1(.2), 2327.1 (.2) and 2328.1(.2)
6. CSCI 2341.1(.2) and CSCI 2342.1(.2)
7. MATH 2305.1(.2), MATH 2308.1(.2), and MATH 1216.1(.2)
8. CSCI 3428.1(.2), 3430.1(.2) and 3431.1(.2)
9. Six (6) additional credit hours in MATH courses at the 3000 level or above.
10. Nine (9) additional credit hours in CSCI courses numbered 2306 or above, at least six (6) of which are at the 3000 level or above.
11. Six (6) additional credit hours in MATH or CSCI courses numbered 2306 or above.
12. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities, 6(c) twelve (12) credit hours in Arts/Economics, 7(b) twelve (12) credit hours in other sciences (not MATH or CSCI), 7(c) twelve (12) credit hours of free electives.

Requirements for a Double Major in Computing Science and a subject other than Mathematics.

- 1-7. Same as for Major in Computing Science (above).
8. Three (3) additional credit hours in CSCI courses numbered 2306 or above.
9. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities, 7(a), (c) forty-eight (48) additional credit hours, with a minimum of thirty-six (36) credit hours in the other major subject. [(Twelve (12) credit hours in MATH are used to satisfy Faculty of Science regulation 7(b).]

Requirements for an Honours in Computing Science

The honours program is designed for majors in computing science of above average ability. Majors in the second year with an overall quality point average of at least 2.50 and with a quality grade point average of at least 3.00 in their CSCI and MATH courses should consider enrolling in the honours program and are advised to consult with the Department before making a final decision. The Departmental requirements for honours in computing science are:

1. CSCI 1226.1(.2) and 1227.1(.2)
2. CSCI 2307.1(.2), 2327.1 (.2) and 2328.1(.2)
3. CSCI 2341.1(.2) and 2342.1(.2)
4. CSCI 3428.1(.2), 3430.1(.2), 3431.1(.2), and 3451.1(.2)
5. MATH 1210.1(.2) and 1211.1(.2)

6. MATH 2305.1(.2), 2308.1(.2), 1216.1(.2), and 2320.1(.2)
7. Nine (9) additional credit hours in MATH numbered 2306 or above.
8. Twenty-four (24) additional credit hours in CSCI courses numbered 2306 or above, at least twelve (12) of which are at the 3000 level or above.
9. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities, 6(c) twelve (12) credit hours in Arts/Economics, 12(b) eighteen (18) credit hours in Arts/Economics.

Requirements for a Double Honours in Computing Science and Mathematics

1. MATH 1210.1(.2) and MATH 1211.1(.2)
2. CSCI 1226.1(.2) and CSCI 1227.1(.2)
3. MATH 2310.1(.2) and 2311.1(.2)
4. MATH 2320.1(.2) and MATH 2321.1(.2)
5. CSCI 2307.1 (.2), 2327.1 (.2) and 2328.1(.2)
6. CSCI 2341.1(.2) and CSCI 2342.1(.2)
7. MATH 2305.1(.2), MATH 2308.1(.2), and MATH 1216.1(.2)
8. CSCI 3428.1(.2), CSCI 3430.1(.2), CSCI 3431.1(.2) and CSCI 3451.1(.2)
9. MATH 4420.1 (.2), 4441.1 (.2) and twelve (12) additional credit hours in MATH courses numbered 2306 or above, at least six (6) of which are at the 3000 level or above.
10. Eighteen (18) additional credit hours in CSCI courses numbered 2306 or above, at least twelve (12) of which are at the 3000 level or above.
11. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities, 6(c) twelve (12) credit hours in Arts/Economics, 12(b) six (6) credit hours in other sciences (not MATH or CSCI).

Requirements for a Double Honours in Computing Science and a subject other than Mathematics

- 1-6. Same as Computing Science Honours (above).
7. Three (3) additional credit hours in MATH courses numbered 2306 or above.
8. Six (6) additional credit hours in CSCI courses numbered 2306 or above.
9. Additional Faculty of Science regulations: 6(a) three (3) credit hours in English [ENGL 1205.1(.2)] and three (3) credit hours in Humanities, 6(c) twelve (12) credit hours in Arts/Economics, 12(c) forty-two (42) additional credit hours in the other honours subject. [Six (6) credit hours in MATH are used to satisfy Faculty of Science regulation 12(b).]

Notes: (i) Students must obtain formal Departmental approval of their program at the time of their declaration to enter the major or honours program, as well as for any subsequent changes.

(ii) Students taking a concentration, major, or honours in computing science are permitted credit for at most one of MATH 1207.1(.2), BIOL 2308.1(.2), ECON 2207.1(.2), MGSC 2207.1(.2), or PSYC 2350.1(.2), and shall not be

permitted credit for any of these courses simultaneously with or subsequent to MATH 1216.1(.2).

(iii) Courses with MATH or CSCI designation cannot be used to satisfy requirements 6(e) or 12(b) of the Faculty of Science regulations regarding Science electives outside the discipline.

(iv) Related courses to a maximum of nine (9) credit hours offered by other Departments may be allowed for CSCI credit, with approval of the Department of Mathematics and Computing Science.

(v) Students pursuing a major in Computing Science can also complete a minor in Mathematics by taking MATH 2310.1(.2) and MATH 2311.1(.2), under requirement 7, of the major degree, and by taking MATH 2321.1(.2) and three (3) additional credit hours in MATH, under requirement 9, of the major degree, Faculty of Science regulation 6(f) on free electives.

(vi) Students pursuing an honours in Computing Science can also complete a minor in Mathematics by taking MATH 2310.1(.2), MATH 2311.1(.2), MATH 2321.1(.2) and three (3) additional credit hours in MATH, under requirement 7, of the honours degree.

Requirements for a Minor in Computing Science

It is possible to obtain a minor in computing science by completing five (5.0) credits in CSCI in addition to satisfying the Faculty of Science regulations for a minor. These courses must include:

1. CSCI 1226.1(.2) and 1227.1(.2)
2. CSCI 2327.1(.2), CSCI 2328.1(.2), CSCI 2341.1(.2), and CSCI 2342.1(.2)
3. Twelve (12) additional credit hours in CSCI courses numbered 2306 or above.

Computing Science and Business Administration (CSCI)

Coordinator S. Konstantinidis

This is an interdisciplinary four year degree combining Computing Science courses, taught in the Department of Mathematics and Computing Science, with a selection of courses taught in the Faculty of Commerce. This program is designed to meet the increasing demand for people with a solid technical knowledge of Computing Science who also understand the application of this technology to business problems.

To declare this program as a major, students should consult with the Co-ordinator of Computing Science in the Department of Mathematics and Computing Science. Students must complete the twenty (20.0) credits as listed below. Due to restrictions associated with the prerequisite structure, please note that certain courses should be taken by the end of the period indicated so that the program can be completed in four years.

1. Computing Science courses

- 1.1 *CSCI 1226.1(.2) and *CSCI 1227.1(.2) (first year) [six (6) credit hours]
- 1.2 *CSCI 2327.1(.2), *CSCI 2328.1(.2), *CSCI 2341.1(.2), and *CSCI 2342.1(.2) (second year) [twelve (12) credit hours]

1.3 *six (6) additional CSCI credit hours in third year

1.4 *twelve (12) additional CSCI credit hours in fourth year

The courses referred to in 1.3 and 1.4 must be numbered 2306.1(.2) or above and at least twelve (12) of these credit hours must be at the 3000 level or above. With the approval of the Program Co-ordinator, students may be allowed to take up to nine (9) computing science credit hours given by other departments.

2. Mathematics and Statistics courses

2.1 *MATH 2110.1(.2) and *MATH 1211.1(.2) (first year) [six (6) credit hours]

2.2 *MATH 2305.1(.2) and *MATH 2320.1(.2) (third year) [six (6) credit hours]

2.3 *CISY 1207.1(.2) or MATH 1216.1(.2) (second year) [three (3) credit hours]

3. Commerce courses

3.1 *MGMT 1281.1(.2) (first year or first term of second year) [three (3) credit hours]

3.2 *MGMT 2383.1(.2) and *MGMT 2384.1(.2) (third year) [six (6) credit hours]

3.3 *MGMT 4489.1(.2) (fourth year) [three (3) credit hours]

3.4 *ACCT 2241.1(.2) and *ACCT 2242.1(.2) (second year) [six (6) credit hours]

3.5 *ACCT 3332.1(.2) (third year) [three (3) credit hours]

3.6 *ACCT 3323.1(.2) (fourth year) [three (3) credit hours]

3.7 *FINA 2360.1(.2) and *FINA 3361.1(.2) (third year) [six (6) credit hours]

3.8 *MKTG 2270.1(.2) (third year) [three (3) credit hours]

3.9 *CISY 4425.1(.2) (fourth year) [three (3) credit hours]

3.10 *ECON 1201.1(.2) and *ECON 1202.1(.2) (first year preferably or second year) [six (6) credit hours]

4. Other courses [twenty-seven (27) credit hours]

4.1 ENGL 1205.1(.2) and three (3) credit hours in humanities [six (6) credit hours]

4.2 Arts and/or Economics courses that satisfy regulation 6(e) of the Faculty of Science, except only six (6) credit hours are required

4.3 Science electives that satisfy regulation 6(e) of the Faculty of Science, except only twelve (12) credit hours are required

4.4 Free elective [three (3) credit hours]

Notes: (i) Courses marked with an asterisk (*) are considered as major courses for the purposes of regulation 9 of the Faculty of Science.

(ii) All electives are to be at the 1000 level or above.

(iii) Credit will not be given for any introductory computing course if taken subsequent to CSCI 1226.1(.2).

(iv) Credit will not be given for MGSC 1205.1(.2), MGSC 1206.1(.2) or other preparatory or introductory courses if taken subsequent to, or concurrent with MATH 1210.1(.2) or MATH 1211.1(.2).

(v) For students in this program, MATH 1210.1(.2) can replace MGSC 1205.1(.2) or MGSC 1206.1(.2) as a prerequisite for other commerce courses.

(vi) For students in this program, CSCI 1227.1(.2) can replace CISY 1225.1(.2) as a prerequisite for other commerce courses. However, a knowledge of the topics

covered in CISCY 1225.1(.2) will be assumed in other courses.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, CSCI 1226.1(.2) was formerly CSC 226.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
CSC 101		CSC 434	CSCI 4434
CSC 102		CSC 451	CSCI 3451
CSC 226	CSCI 1226	CSC 452	CSCI 4452
CSC 227	CSCI 1227	CSC 461	CSCI 3461
CSC 301	CSCI 2301	CSC 462	CSCI 3462
CSC 327	CSCI 2327	CSC 463	CSCI 4463
CSC 328	CSCI 2328	CSC 465	CSCI 3465
CSC 341	CSCI 2341	CSC 471	CSCI 4471
CSC 342	CSCI 2342	CSC 474	CSCI 4474
CSC 355	CSCI 2355	CSC 475	CSCI 4475
CSC 421	CSCI 3421	CSC 476	CSCI 4476
CSC 423	CSCI 4423	CSC 482	CSCI 3482
CSC 426	CSCI 3426	CSC 491	CSCI 4491
CSC 428	CSCI 3428	CSC 499	CSCI 4499
CSC 430	CSCI 3430	CSC 500	CSCI 4500
CSC 431	CSCI 3431		

1226.1(.2) Introduction to Computing Science and Programming

Prerequisite: There is no formal prerequisite for this course; however, some prior experience with analytical thinking is highly recommended.

This course is designed to introduce the student to some of the key concepts in computing science and simultaneously provide introductory hands-on experience using a modern programming language. General topics will include a brief history of computing; the place of hardware, software, and

policies in any computing environment; a high-level view of the components of a computing system; and the tools one can expect to find in any programming environment. Programming language topics will include input/output; simple data types; operators and expressions; looping and decision-making control constructs; subprograms and parameter passing; overall program structure and programming style considerations. Problem-solving and program-design strategies will include divide-and-conquer and top-down design with step-wise refinement. Students will design algorithms with data input and output to solve particular problems, and later implement those solutions as computer programs in the current programming language of choice.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

1227.1(.2) Intermediate Programming and Problem Solving

Prerequisite: CSCI 1226.1(.2).

This course is designed to extend the student's knowledge of, and provide additional hands-on experience with, the programming language encountered in CSCI 226, in the context of the structured data types provided by that language, and within the larger contexts of object-oriented programming and more complex problem-solving situations. Techniques for managing file input and output in the current language will also be studied. A number of classical algorithms and data structures for the storage and manipulation of information of various kinds in a computer's internal memory will be studied. The student will acquire the knowledge that comes from actually implementing a non-trivial abstract data type and the experience that comes from having to make use, as a client programmer, of an abstract type that has already been implemented.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

2301.1(.2) Data Structures and Numerical Methods for Engineers

Prerequisites: CSCI 1226.1(.2) or EGNE 1204.1(.2)

This class introduces students to system analysis and software techniques. Topics covered include data structures such as stacks, queues, multiple linked lists, searching and sorting algorithms, and their implementation in an object-oriented programming language. Students use linear algebra and numerical methods in engineering examples, while learning to implement properly structured solutions.

Note: This course is intended only for Engineering students. Computing Science students (CPSC or CSCI) should take CSCI 2341.1(.2) and CSCI 2342.1(.2) instead. No credit will be given for this course simultaneously with or subsequent to CSCI 2341.1(.2).

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

2307.1 (.2) Theoretical Foundations of Computing Science

Prerequisites: CSCI 1226 and MATH 2305

This course complements CSCI 2341. It uses various mathematical concepts to define tools and address problems of fundamental status in Computing Science. Topics will involve notions related to graphs, formal languages and computability. Moreover, depending on the focus, other fundamental tools will be considered, which are utilized in topics such as database modeling, information coding, complexity, knowledge modeling, program correctness and automated reasoning.

2327.1(.2) Digital Logic and Assembly Level Machine Organization

Prerequisite: CSCI 1227.1(.2).

This course considers data representation, digital logic and computer organization at the assembly language level. Data will be represented as sequences of symbols and interpreted as numbers (binary, signed, unsigned, decimal, etc.) or text. The student will be introduced to the concept of computation at the digital logic level by studying devices for storing data, transferring data, and making decisions based on data patterns. Such devices will include flip-flops, registers, tristates, bus structures, multiplexers, comparators, and adders. The fetch-execute cycle of a processor, as well as the structure and addressing modes of machine instructions, will be considered. Students will obtain experience in the assembly language of a particular processor.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

2328.1(.2) Computer Architecture

Prerequisite: CSCI 2327.1(.2).

This course builds on the experience obtained in CSCI 2327. The fetch-execute cycle of a processor is considered in more detail by examining the data path and the control unit. The abstract view of the memory system is refined by discussing storage systems, the memory hierarchy, cache memories, and the concept of virtual memory. The course will examine the input/output subsystem of a computer that serves as an interface with peripheral devices. In particular, interrupt and synchronization mechanisms will be considered. Some basic principles of data communications will also be discussed with examples of communications protocols including the TCP/IP protocol. Alternative computer architectures will be discussed briefly.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

2341.1(.2) Algorithmic Foundations of Computing Science

Prerequisite: CSCI 1227.1(.2).

This course provides an introduction to some of the fundamental theoretical concepts in computing science. These theoretical concepts will be applied to some programming problems. The course will introduce the basis for evaluating algorithms. This basis will be used to analyze various searching and sorting algorithms. Students will be introduced to the concept of lower-bound time requirements for specific problems. Examples of various problem solving strategies such as greedy algorithms, divide-and-conquer, and backtracking will be discussed. Context free languages will be studied using BNF notations and derivation trees.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

2342.1(.2) Data Structures and Algorithms

Prerequisite: CSCI 2341.1(.2).

This course provides an introduction to data structures and associated algorithms. Students will build on the theoretical and programming skills developed in CSCI 1226/1227 and CSCI 2341 through a systematic study of some of the fundamental computing science concepts. The course will use the basis for evaluating algorithms, established in CSCI 2341, to study various data structures and related operations. The data structures that will be studied in this course include lists, stacks, queues, hash tables, binary trees, and binary search trees. The operations on these data structures include creation, destruction, insertions, deletions, searching, and sorting. Contiguous and linked designs and corresponding implementations of these data structures will be studied. Students will be expected to create some of the data structures as well as use a library of existing data structures. The advantages and disadvantages of using these data structures will be studied. External data storage structures, file structures, and relational databases will also be briefly reviewed.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

2355.1(.2) Internet Technologies and Web Programming

Prerequisite: CSCI 1227.1(.2).

This course will discuss a number of fundamental architectures, protocols and scripting languages for displaying and transferring data of various kinds in the context of the Internet and the World Wide Web. Students will gain experience with web programming concepts and techniques.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

3421.1(.2) Data Communications and Networking**3426.1(.2) Distributed Systems**

3428.1.(2) Software Engineering

Prerequisite: CSCI 2342.1(.2).

In this course, students will obtain experience in the development of large scale software systems. The software life-cycle will be studied in detail. Issues of software documentation, reliability, and maintenance will be discussed. Several strategies for specification (formal and informal), design (functional, top-down, object-oriented, etc.), implementation, and verification and validation will be considered. The course will involve a major project that will expose students to the stages of the software life-cycle. Students should expect to work in teams.

3430.1.(2) Principles of Programming Languages

Prerequisite: CSCI 2342.1(.2) and MATH 2305.1(.2).

This course is designed to introduce the student to some of the key concepts underlying all programming languages by comparing and contrasting major programming language paradigms such as procedural, functional, logic, object-oriented, and parallel. Topics may include history and evolution of programming languages; programming language design goals, the place of programming languages in the programming environment; virtual machines; data representation, manipulation and sharing; type checking; storage management; control structures; language mechanisms that support modularity; syntax and semantics. The laboratory component will provide hands-on experience with several different languages from different paradigms.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

3431.1.(2) Operating Systems

Prerequisite: CSCI 2328.1(.2).

Students will study various aspects of operating systems with emphasis on the following topics: history, evolution, and philosophies; tasking and processes; process coordination and synchronization; scheduling and dispatch; physical and virtual memory organization; device management; file systems and naming; security and protection; communications and networking; distributed operating systems; and real-time concerns. Examples of two or more operating systems will be used to gain some systems programming experience.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

3451.1.(2) Theory of Computation

Prerequisite: CSCI 2341.1(.2) and MATH 2305.1(.2).

This course provides an introduction to some of the fundamental theoretical concepts in computing science. Students will be introduced to the concepts of decidable, P, NP, NP-complete, and NP-hard problems. Two classes of languages of interest to computing scientists, namely, regular and context free languages, and corresponding automata for recognizing these languages, will also be studied. A brief discussion on the semantics of programming languages will be included. The concept of automata will be further extended using Turing machines. Turing machines will be used to explore the concept of decidability along with examples of decidable and undecidable problems.

3461.1.(2) Database Systems

Prerequisite: CSCI 2342.1(.2) and MATH 2305.1(.2).

This course provides an introduction to the design, implementation, use and maintenance of databases. Topics will include: data models such as the entity-relationship model, the relational model, and the object-oriented model; relational languages such as relational algebra, relational calculus, and SQL; the theory of normal forms of database design; use of indexes for efficient data retrieval; and database implementation using a commercial database management system. Other topics may be included, such as query optimization, database control, and distributed database systems.

3462.1.(2) File Structures

Prerequisite: CSCI 2342.1(.2) and MATH 2305.1(.2).

This course provides the student with the tools and techniques required to organize and efficiently maintain data on a secondary storage devices. The course will consider the implementation and performance of structures such as fields, records and buffers; primary and secondary indexes; multi-level indexes and B-trees; indexed sequential files; and hash structures. Also included will be some discussion of advanced sort and merge algorithms for secondary storage.

3465.1.(2) Object-Oriented Programming

Prerequisite: CSCI 2342.1(.2) and MATH 2305.1(.2).

This course provides an introduction to object-oriented analysis, design, and programming. Emphasis will be on the creation of reusable software. The object-oriented approach to software development will be compared and contrasted with other approaches, such as the classical "structured" approach. Students will gain hands-on experience by programming in a suitable object-oriented programming language.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

3482.1.(2) Artificial Intelligence

Prerequisite: CSCI 2342.1(.2), MATH 1216.1(.2), and MATH 2305.1(.2).

This course provides a general introduction to artificial intelligence (AI). The course will consider philosophical, mathematical, experimental, and implementation aspects of such topics as problem solving, searching, game playing, genetic algorithms, learning, neural networks, natural language processing, vision, knowledge representation, logic, expert systems, reasoning under uncertainty, fuzzy sets, planning, and robotics. In addition to a theoretical introduction, students will also gain experience using one or more of the popular AI tools.

4423.1.(2) Cryptography

Prerequisite: CSCI 2342.1.(2), MATH 2305.1.(2), and MATH 2320.1.(2).

This course provides an introduction to various aspects of data security. Possible topics: classical encryption methods such as Vignere and Vernan ciphers; the Data Encryption Standard; key distribution methods and public key encryption; and authentication using digital signatures. Applications of these methods in the design of protocols for data privacy and security will also be studied.

4434.1.(2) Programming Language Translation**4452.1.(2) Algorithm Analysis**

Prerequisite: CSCI 2342.1.(2) and MATH 2305.1.(2).

This course will build on the concepts of algorithm analysis introduced in CSCI 2341. Some of the key techniques of efficient algorithm design that will be discussed: divide and conquer; greedy methods; dynamic programming; graph traversal; and change of representation. Measuring algorithm performance and lower bounds for various problems will be studied. An introduction to complexity theory-P, NP, polynomial time reducibility, and NP-completeness- will also be provided

4463.1.(2) Numerical Software

Prerequisite: CSCI 2342.1.(2) and MATH 2308.1.(2).

This course will study the software development process in the area of numerical software. Emphasis will be placed on software development and implementation aspects of a variety of numerical algorithms. The course will also examine a substantial number of software packages including some which are currently available in some of the large commercial software libraries, as well as a number of published software packages which have yet to appear in libraries and even a few experimental codes which have not yet appeared in the literature. The main project in the course will be the development of a large software package by the class working in programming teams in a selected area of numerical algorithms. Other projects to be undertaken during the course include the modification of one or more existing mathematical software packages and the critical analysis of several existing software packages. A number of assignments related to the software packages considered will also be given.

Classes 3 hrs. and recitation 1 1/2 hrs. a week. 1 semester.

4471.1.(2) Computer Graphics

Prerequisite: MATH 2310.1.(2) and 2320.1.(2); CSCI 2328.1.(2) and 2342.1.(2).

This course provides an overview of the principles and methodologies of computer graphics, including the representation, manipulation, and display of two- and three-dimensional objects. Subtopics may include characteristics of display devices (i.e., raster, vector); representing primitive objects (lines, curves, and surfaces) and composite objects; two- and three-dimensional transformations

(translation, rotation, scaling); hidden lines and surfaces; shading and colouring; interactive graphics and the user interface; animation techniques.

Classes 3 hrs. and recitations 1 1/2 hrs. a week. 1 semester.

4474.1.(2) Information Retrieval**4475.1.(2) Human Computer Interaction**

Prerequisite: CSCI 2342.1.(2).

The objective of this course is to teach students how to design, prototype, and evaluate user interfaces using a variety of methods. Topics covered include the following: human capabilities; interface technology; interface design methods; and interface evaluation.

4476.1.(2) Computer Vision and Digital Image Processing

Prerequisite: CSCI 2342.1.(2).

This course provides an introduction to the concepts used in computer vision and digital image processing. Computer vision techniques extract information from an image, while image processing techniques modifies the image for viewing by the human eye. Topics covered include the following: sampling and resolution, image processing, edge detection, segmentation, discrete image transforms, restoration and enhancement, and image compression.

4477.1.(2) Data Mining

Prerequisite: CSCI 2342.1.(2).

Data mining refers to a family of techniques used to detect interesting knowledge in data. With the availability of large databases to store, manage and assimilate data, the new thrust of data mining lies at the intersection of database systems, artificial intelligence and algorithms that efficiently analyze data. The course will use concepts from pattern recognitions, statistics, data analysis and machine learning. The size of databases and high complexity of techniques present many interesting computational challenges.

4491.1.(2) to 4499.1.(2) Special Topics in Computing Science

Prerequisite: permission of instructor.

This course covers advanced topics in computing science chosen according to the interests of the students and instructor, and requires some measure of independence and initiative from the student.

Seminar 3 hrs. a week. 1 semester.

4500.0 Research Thesis

Prerequisite: honours standing and permission of the thesis committee.

Research project in computing science carried out by the student under the supervision of any member of the Department. The student will submit a thesis and present it orally.

Modern Languages and Classics

Classics: Ancient History (CLAS) – Classical Literature and Civilization (CLAS) – Ancient Egyptian (EGYP) – Greek (GREK) – Latin (LATN)

Modern Languages: Arabic (ARBC) – Chinese (CHNS) – French (FREN) – German (GRMN) – Japanese (JPNS) – Spanish (SPAN)

Chairperson, Associate Professor G. Nahrebecky

Classics

Associate Professor G. Thomas,

French

Professor J. Cauville
Associate Professors G. Nehrebecky,
P. Bernard
Assistant Professor S. Beaulé

German

Associate Professor M. Heukaeufer
Assistant Professor J. Plews

Japanese

Assistant Professor C. Beaupré

Spanish

Professor A. Farrell
Assistant Professor A. Spires

Department Policy – Modern Languages and Classics

1. The Department of Modern Languages and Classics offers major programs in Classics, French, German Studies, Spanish and Hispanic Studies; language and literature courses in ancient Egyptian, Greek, and Latin; language courses in Arabic, Chinese, and Japanese.

Enrollment in language courses involves the following formal placement procedures.

All students seeking entry into language courses who have not previously taken a language course at Saint Mary's University must complete and return the Language Profile Form to the Department of Modern Languages and Classics.

Based on the information provided in the Language Profile Form, students may receive notification from the Department to appear for an oral interview and/or a written placement test at a designated time.

The Department of Modern Languages determines the appropriate course placement for each student

Permission to register or remain in a particular language course can be refused if the Department judges that the student's knowledge exceeds the level for that course. Native speakers are not eligible to receive advanced credit for language courses.

Completion of Advanced Standing (transfer) courses does not exempt a student from taking the placement test.

2. The student's eligibility to enroll in language, culture, and literature courses, and in specific sections of those courses, is determined by the Chairperson in consultation with the instructor in light of the student's ability level in the language concerned, previous course work completed at university or elsewhere, and overall size of the course or section of a course. In matters of placement, the decision of the Chairperson is final.

Specific procedures for matters of placement in language courses can be found under the course listings sections for each language.

3. In order to ensure the academic integrity in language courses, especially at the lower levels of instruction, the Department of Modern Languages and Classics does not allow native or near-native speakers of a particular target language to enroll in courses at the 2000 level or lower.

Students who misrepresent their knowledge of any given language by providing inaccurate or incomplete information about their linguistic educational history will be subject to disciplinary action as laid out in Academic Regulation 19(d).

4. The Department of Modern Languages and Classics supports a policy of regular class attendance by students. Frequent, unexplained absences from class will result in a lowering of the final grade in a manner to be determined by each faculty member.

5. Students enrolling in any French course below the 3000 level are required to take a placement test (unless they have previously successfully completed a French course at this University at the 3000 level).

6. Students should note that courses in literature and/or culture fulfill the BA Humanities requirement 3(c) but do not fulfill the 3(b) requirement. The courses designated with an * in front of the number satisfy the 3(c) requirement.

Majors and Minors

Students intending to major or minor in Classics, French, German Studies, Spanish or Hispanic Studies should consult the Coordinator of the program or the Chairperson of the Department for advice about, and approval of, their academic programs. Where appropriate, supporting courses offered by other departments will be suggested.

Concentrations

To obtain a concentration in any of the subject areas in this Department in partial fulfillment of the B.A. General Degree (i.e. one with a Double Arts Concentration and a minimum of ninety (90) credit hours, a minimum of twenty-four (24) credit hours is required; also a minimum cumulative grade point average of 2.00.

Certificate Programs

The Department of Modern Languages offers five certificate programs:

- (a) Certificate of Chinese Studies (CER CHST)
- (b) Certificate of Proficiency in French for Non-Majors (CPF)
- (c) Certificate of German Language and Culture (CER GLST)
- (d) Certificate of Japanese Studies (CER JPST)
- (e) Certificate in Spanish Language and Hispanic Studies (CER HPST)

Information about a particular certificate program is found in the descriptions of the language programs with which the certificate is associated.

Program in Chinese

Certificate of Chinese Studies (CER CHST)

This certificate program in Chinese Studies is designed to provide linguistic, cultural and practical knowledge to persons interested in studying about or working in China. The program consists of twenty-four (24) credit hours. It is intended for undergraduate students, persons already holding degrees in any discipline, and mature students with relevant work experience.

Admission

The Certificate of Chinese Studies requires a formal application for admission. The official approval of the Asian Studies Coordinator is a prerequisite for admission to the program. Students majoring in Asian Studies at Saint Mary’s University are not eligible for this program.

A student of the program must complete at least eighteen (18) credit hours at Saint Mary’s University. Relevant academic courses, work experience and linguistic capability may be considered for credit recognition. Applicants should submit a resume of relevant work experience, official university transcripts and any other relevant documentation.

Program Courses

This program consists of twelve (12) required credit hours and a number of optional credit hours. All students are required to take Chinese 1100.0 (Introductory Modern Chinese) and Chinese 2200.0 (Intermediate Modern Chinese). Students must also select twelve (12) optional credit hours in at least two different disciplines from the following courses:

- ANTH 2326.1(.2); ASNT 3300.1(.2); ASNT 3310.1(.2); ASNT 3450.0; GEOG 3380.1(.2); HIST 1222.1(.2); HIST 1223.1(.2); HIST 2381.1(.2); HIST 2382.1(.2) HIST 2383.1(.2); HIST 4511.0; RELS 2327.1(.2); RELS 2345.1(.2).

At least twelve (12) credit hours must be at the 3000 level or above. Detailed descriptions are found under Departmental listing. These courses may not be offered every year.

Requirements for Graduation

Students are encouraged to complete the program within five years. A minimum cumulative grade point average of 2.00 in the Certificate of Chinese Studies is required. Students who have completed all the courses without being officially admitted to the program will not be accredited.

Programs in Classics

The Classics Program encompasses ancient languages, literature, history and culture in Greek, Roman, and Near Eastern societies. One of the language courses may be used to satisfy the 3(b) requirement of the Faculty of Arts, while the other courses in Classics may be used to satisfy the 3(c) requirement.

Students majoring in Classics must study at least one of the ancient languages. Entry to a graduate program in Classics normally means the successful completion of at least eighteen (18) credit hours at the undergraduate level in one ancient language (Latin or Greek) and twelve (12) credit hours in the other. Latin is a valuable asset for students majoring in French, German or Spanish.

Major in Classics

A major in Classics comprises forty-two (42) credit hours, twenty-four (24) credit hours of which must be at the 3000 level or above. Six (6) credit hours are required in an ancient language, e.g., Classical Egyptian, Greek, or Latin. Students in Arts must maintain a minimum grade point average of 2.00 (an average grade of C) in order to achieve the Classics major.

Minor in Classics

A minor in Classics consists of at least twenty-four (24) credit hours, twelve (12) of which must be at the 3000 level or above. To obtain a minor students must achieve a minimum grade point average of 2.00 (an average grade of C or better) in the courses of the minor.

Programs in French

The following programs are available in French: Honors, a major, a minor, a concentration, study abroad, and a certificate of proficiency. See below for details. The Department offers a balanced program involving courses in language, culture and literature.

Those with a solid background in French, especially Francophones or those having attended a French school, are to begin their studies with courses beyond FREN 2235.1(.2)/2236.1(.2) This condition may also apply to certain high school immersion graduates. Native, near-native, or fluent speakers of French may not enroll in courses at the 2000 level or below. Courses at the 2000 and 3000 levels cannot be taken concurrently.

FREN 2235.1 is the normal starting point for majors. High school graduates having completed the “Core” program should enroll in FREN 2201.1. Students who have taken French at another university are asked to consult with the Chairperson before registering.

Normally, a placement test is administered on the first day of classes in FREN 1111.1, 2201.1, and 2235.1, and a short composition in 3307.1(.2) and 3308.1(.2), in order to provide students with the course that best suits their needs. Students having previously taken FREN 1111.1 and 1112.1(.2) or 2201.1 and 2202.1(.2) at Saint Mary's are not required to take the placement test. Since the test is administered on the first day of classes, attendance at this first class is required.

Students interested in teaching French as a career are strongly advised to seek assistance from the Department on course selection and teacher training programs as early as possible.

Honors in French

All prospective honors students in French should refer to the section of this *Calendar* pertaining to honors degrees. Students with a minimum cumulative grade point average of 3.00 can apply to the Registrar for admission to the honors program after having satisfied the requirements of the major program.

Honors degrees in French consist of sixty (60) credit hours. Beyond the requirements for the French major, eighteen (18) additional credit hours in French are required: FREN 50000 The Honors Essay, and twelve (12) credit hours at the 3000-4000 level (other than FREN 3307.1(.2), 3308.1(.2) and FREN 3350.1(.2) and 3351.1(.2)).

Students should discuss the topic and nature of the honors essay with the appropriate faculty member prior to their entry into the program.

Major in French

A major in French normally consists of at least forty-two (42) credit hours in French beyond FREN 2231.1(.2) with the following requirements:
 FREN 3307.1(.2); 3308.1(.2) and 3350.1(.2); 3351.1(.2)
 Six (6) credit hours at the 3000 or 4000 level in culture;
 Six (6) credit hours at the 4000 level in literature;
 Six (6) credit hours at the 4000 level in language;
 Six (6) credit hours at the 4000 level in FREN electives.

Language Courses	Culture Courses	Literature Courses
1111.1(.2)	3305.1(.2)	3350.1(.2)
1112.1(.2)	3310.1(.2)	3351.1(.2)
2201.1(.2)	3312.1(.2)	4405.1(.2)
2202.1(.2)	4405.1(.2)	4410.1(.2)
2230.1(.2)	4410.1(.2)	4412.1(.2)
2231.1(.2)	4412.1(.2)	4416.1(.2)
2235.1(.2)	4440.1(.2)	4417.1(.2)
2236.1(.2)		4418.1(.2)
3307.1(.2)		4422.1(.2)
3308.1(.2)		4426.1(.2)
3320.1(.2)		4427.1(.2)
3321.1(.2)		4428.1(.2)
3325.1(.2)		4433.1(.2)
3333.1(.2)		4434.1(.2)
3335.1(.2)		4451.1(.2)
4400.1(.2)		4452.1(.2)

4435.1(.2)	4460.1(.2)
4436.1(.2)	4461.1(.20)
4436.1(.2)	
4437.1(.2)	
4438.1(.2)	

Minor in French

A minor in French consists of twenty-four (24) credit hours in French beyond FREN 1111.1 with at least twelve (12) of these being at the 3000 level or above.

Year Abroad at the Université Catholique d'Angers, France

This Study Abroad program consists of a month-long intensive French language session in September (optional) and one or two semesters (October to January and February to June) of course work in language and related subjects. One-month programs are also offered in July and August. Students who successfully complete their programs receive credit recognition at Saint Mary's University: fifteen (15) credit hours per semester and six (6) credit hours each for the months of July, August or September. To be eligible to participate in this Study Abroad program, students must have the approval of the Coordinator of the program and the Chairperson, and must have a QPA of 2.00 or above. Although students will take a placement test upon their arrival in France, it is strongly advised that they complete at least six (6) credit hours in French at Saint Mary's in the year prior to their departure.

Information sessions about the Study Abroad program will be held in the months of October and February every year. Please inquire at the secretary's office, 902-420-5808.

With the Department's approval, a student may undertake a year of study at another French-speaking university.

Certificate of Proficiency in French for Non-Majors (CPF)

This certificate signifies that the student has earned twenty-four (24) credit hours beyond FREN 2201.1(.2) and 2202.1(.2), has passed an oral and written examination and, in so doing, has demonstrated an acceptable level of proficiency in understanding, speaking, reading and writing. Students interested in the certificate program should consult with the Chairperson in order to determine their program of study and to register for the examination which is usually given in the spring. The student's transcript will bear an entry signifying that the certificate has been awarded.

Programs in German

The following programs are available in German Studies: a major, a minor, a concentration, and a certificate in German Language and Culture.

Major in German Studies

A major in German Studies consists of at least thirty-six (36) credit hours. Twenty-four (24) compulsory credit hours in German language/literature. At least twelve (12) of those twenty-four (24) credit hours have to be at the 3000 or 4000 level. The remaining twelve (12) credit hours may be taken in German language, literature, culture or may be from

courses given in English and taken from other departments. Those courses will stress German history, cultural roots, and civilization, and can only be taken after consultation with the Coordinator of German Studies or the Chairperson of Modern Languages and Classics.

Minor in German Studies

A minor in German Studies consists of twenty-four (24) credit hours, with at least twelve (12) of these being at the 3000 level or above. Normally, the first twelve (12) credit hour courses for the minor will be 1000 and 2000 level German language courses, followed by twelve (12) credit hours to be chosen from offerings in literature and cultural studies. Students entering the minor program with previous knowledge of German must consult the Coordinator for German Studies or the Chairperson of Modern Languages and Classics. A minimum cumulative grade point average of 2.00 is required for courses in the minor program.

Certificate in German Language and Culture (CER GLST)

The certificate program in German language and culture is designed to provide linguistic and cultural knowledge to persons interested in studying and/or working in a German-speaking country. The program consists of twenty-four (24) credit hours.

Admission

Admission to the program leading to the Certificate in German Language and Culture requires a formal application for admission and the official approval of the Coordinator for German Studies. Application forms are available from the Registrar. Students majoring in German at Saint Mary's University are not eligible for this program. Eighteen (18) of the twenty-four (24) credit hours must be completed at Saint Mary's.

Program Courses

The program consists of twelve (12) required credit hours in language: GRMN 1101.1(.2) and 1102.1. (2) and/or 2201.1(.2) or 2202.1(.2), and/or 3311.1(.2) and a number of optional credit hours. These optional credit hours must be at the 3000 level or above, and will be chosen from among the following courses:

GRMN 3304.1(.2) German Culture and Civilization
 GRMN 3307.1(.2) Introduction to German Literature
 GRMN 3308.1(.2) Modern German Literature
 GRMN 3330.1(.2) Introduction to Business German I
 GRMN 3331.1(.2) Introduction to Business German II
 HIST 2304.0 Europe 1848-1989
 HIST 3405.1(.2) Society and Culture in Early Modern Europe
 HIST 3406.1(.2) Ideas and Politics in Early Modern Europe

Other courses are possible, subject to the approval of the Coordinator for German Studies.

Requirements

A minimum cumulative grade point average of 2.00 in this certificate program is required. Students who have completed all the courses without being officially admitted to the program will not be accredited.

Programs in Japanese

The Certificate of Japanese Studies is available as outlined below.

Certificate of Japanese Studies (CER JPST)

This certificate program in Japanese Studies is designed to provide linguistic, cultural and practical knowledge to persons interested in studying about or working in Japan. The program consists of twenty-four (24) credit hours. It is intended for undergraduate students, persons already holding degrees in any discipline, and mature students with relevant work experience.

Admission

The Certificate of Japanese Studies requires a formal application for admission. The official approval of the Asian Studies Coordinator is a prerequisite for admission to the program. Students majoring in Asian Studies at Saint Mary's University are not eligible for this program.

A student of the program must complete at least eighteen (18) credit hours at Saint Mary's University. Relevant academic courses, work experience and linguistic capability may be considered for credit recognition. Applicants should submit a resume of relevant work experience, official university transcripts and any other relevant documentation.

Program Courses

This program consists of twelve (12) required credit hours and a number of optional credit hours. All students are required to take Japanese 1100.0 (Introductory Japanese) and Japanese 2200.0 (Intermediate Japanese). Students must also select twelve (12) optional credits hours in at least two different disciplines from the following courses:

ANTH 2326.1(.2); ANTH 2327.1(.2); ASNT 3300.1(.2); ASNT 3302.1(.2); ASNT 2303.1(.2); ASNT 4410.1(.2); GEOG 3360.1(.2); HIST 1222.1(.2); HIST 1223.1(.2); HIST 2354.1(.2); HIST 2355.1(.2); HIST 2356.1(.2); HIST 4511.0; RELS 2327.1(.2); RELS 2340.1(.2).

At least twelve (12) credit hours must be at the 3000 level or above. Detailed descriptions are found under Departmental listing. Not all courses will be offered each year.

Requirements for Graduation

Students are encouraged to complete the program within five years. A minimum cumulative grade point average of 2.00 in the Certificate of Japanese Studies is required. Students who have completed all the courses without being officially admitted to the program will not be accredited.

Programs in Spanish and Hispanic Culture

The following programs are available in the area of Spanish and Hispanic Culture: a major, a minor, a concentration, and a Certificate in Spanish Language and Hispanic Studies.

Major in Spanish or Hispanic Studies

A major in Hispanic Studies (SPS) consists of at least thirty-six (36) credit hours, twenty-four (24) of which must be at the 3000 level or above. Courses counting towards the major are normally chosen from among the SPAN courses

in language, literature, culture. After consultation with the Coordinator for Spanish or the Chairperson of Modern Languages and Classics, these can be supplemented [to a maximum of twelve (12) credit hours] by courses from other disciplines whose principal subjects are the arts, history or current reality of Spain and Spanish-speaking Latin America.

Minor in Spanish or Hispanic Studies

A minor in Spanish consists of twenty-four (24) credit hours, with at least twelve (12) of these being at the 3000 level or above. Normally, the first twelve (12) credit hour courses for the minor will be 1000 and 2000 level Spanish language courses, followed by twelve (12) credit hours be chosen from offerings in literature and cultural studies. Students entering the minor program with previous knowledge of Spanish should consult the Coordinator for Spanish. A minimum cumulative grade point average of 2.00 is required for courses in the minor program.

Concentration in Spanish

A concentration in Spanish applies only to students who are enrolled in a ninety credit-hour BA General program. The concentration consists of twenty-four credit hours in Spanish courses (SPAN). For further details regarding concentrations, see pp. 45-46 of the Calendar.

Certificate in Spanish Language and Hispanic Culture (CER HPST)

The certificate program in Spanish Language and Hispanic Culture is designed to provide linguistic and cultural knowledge to persons interested in studying and/or working in a Spanish-speaking country. It consists of twenty-four (24) credit hours and is intended for undergraduate students and persons already holding degrees in any discipline.

Admission

Admission to the certificate program requires a formal application for admission and the official approval of the Coordinator for Spanish. Application forms are available from the Registrar. Students majoring in Spanish at Saint Mary's University are not eligible for this program. Eighteen (18) of the twenty-four (24) credit hours must be completed at Saint Mary's.

Program Courses

The program consists of twelve (12) required credit hours in language, SPAN 1100.0 and/or 2204.1(.2), 2205.1(.2), 2206.1(.2) 2230.1(.2), 2231.1(.2), 3303.1(.2) 3306.1(.2) and /or and a number of optional credit hours. These optional credit hours must be at the 3000 level or above and will be chosen from the following courses:

SPAN 3304.1(.2) Americas: The Changing Face of Latin America
 SPAN 3305.1(.2) Contemporary Spanish Society
 SPAN 3310.1(.2) Latin American Culture
 SPAN 4404.1(.2) 20th Century Latin American Literature I
 SPAN 4406.1(.2) 20th Century Latin American Literature II
 SPAN 4407.1(.2) 20th Century Spanish Literature I
 SPAN 4409.1(.2) 20th Century Spanish Literature II
 SPAN 4423.1(.2) Independent Study I

SPAN 4424.1(.2) Independent Study II
 HIST 2375.0 Modern Latin America
 HIST 3402.1(2) Aspects of Global History
 Other courses are possible, subject to the approval of the Coordinator for Spanish.

Requirements for Graduation

A minimum cumulative grade point average of 2.00 in this certificate program is required. Students who have completed all the courses without being officially admitted to the program will not be accredited.

Classics – (CLAS)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, CLAS 1000.0 was formerly CLA 200.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
CLA 200	CLAS 2200	CLA 401	CLAS 4401
CLA 201	CLAS 2201	CLA 402	CLAS 4402
CLA 202	CLAS 2202	CLA 303	CLAS 3303
CLA 306	CLAS 3306	CLA 304	CLAS 3304
CLA 311	CLAS 3311	CLA 307	CLAS 3307
CLA 312	CLAS 3312	CLA 310	CLAS 3310
CLA 313	CLAS 3313	CLA 316	CLAS 3316
CLA 352	CLAS 3352	CLA 405	CLAS 4405
CLA 353	CLAS 3354		

Ancient History

3303.0 History of Greece [HIST 2350.0]

Prerequisite: six (6) credit hours in Classics or History or the permission of instructor.

An intensive study of ancient Greek history from the time of the early Minoan and Mycenaean societies to the end of the classical polis about 400 B.C. Students will learn something of Greek religion, social history, and government, and in particular study the development of Athenian democracy. This course may also be used as credit hours in History.

3304.0 History of Rome [HIST 2351.0]

Prerequisite: six (6) credit hours in Classics or History or the permission of instructor.

Ancient Roman and Italian history from the early Paleolithic and Neolithic finds known to archaeology, a study of the Etruscans, the Republic in glory and decline, and the advent of the Principate under Augustus. Subject matter and emphasis can vary in different years. This course may also be used as credit hours in History.

3307.0 Ancient Rome in Film, Fiction, Fact [HIST 2357.0]

Prerequisite: six (6) credit hours in Classics.

Study of Ancient Rome from the fall of the Republic through the first century of the Empire (including such figures as Julius Caesar, Augustus, Caligula, Nero) as portrayed in fiction and film; comparison of popular views of Rome with hypotheses and facts based on historical and archaeological information.

3310.0 History of Israel [RELS 3310.0]

A study of the history of the ancient Hebrew kingdoms of Israel and Judah from the earliest settlements in Palestine to the fall of Jerusalem in 70 A.D.

3316.0 History of Egypt

A detailed study of the history and culture of ancient Egypt from the pre-dynastic period (c. 3300 B.C.E.) until the Greek conquest (332 B.C.E.). As well as political history, the course will consider mythology and religion, art and architecture, and selections from the literature of Egypt (e.g., Pyramid Texts, Coffin Texts, Egyptian epic and fiction).

4405.0 Advanced Reading and Tutorial

Prerequisite: permission of instructor.

A course based on directed readings and research. The contents of the course will be determined by the specific interests of the professor and the students involved. Students will have the opportunity to pursue in depth their individual interests in the field of Classics, and will meet regularly with a member of the Department to discuss their research.

To register in this course students must demonstrate a satisfactory background in Classics or the Ancient World of the Near East and an ability to do independent research.

Classical Literature and Civilization

*2200.0 The Classical Civilizations of Greece and Rome

A general introduction to the civilizations of ancient Near East, Greece and Rome with particular regard to history, political organization and cultural contributions.

*2201.1(2) The Mythology of Greece and Rome I

The course deals with the nature of mythology and the subject matter of the principal myths of Greece and Rome, e.g., the Medea and Hippolytus by Euripides, the different tales of the underworld, the Greek and Roman gods. Where possible the students are also encouraged to look at later versions and adaptations of the ancient tales.

*2202.1(2) The Mythology of Greece and Rome II

The course deals with the nature of mythology and the subject matter of some of the principal myths of Greece and Rome, e.g., the Oresteia by Aeschylus, the labours of Hercules, the wanderings of Aeneas.

*3306.0 The Epic

[ENGL 3306.0]

Prerequisite: six (6) credit hours in English or six (6) credit hours in Classics.

A study of various major national epics with a view towards understanding the works themselves, the cultures they represent, and the characteristics of the oral and written epic as art forms. Central to the course will be a detailed analysis of the Iliad, Odyssey, and Aeneid.

*3311.1(2) Art in Greece and the Ancient Near East

Aided by slides, films and reproductions of artistic pieces in addition to lectures and readings, the class will examine the origins, developments and particular interests of artists in Mesopotamia, Egypt and Greece.

*3312.1(2) Art of the Hellenistic World and of Rome

Aided by slides, films and reproductions of artistic pieces in addition to lectures and readings, the class will examine the origins, developments and particular interests of artists in the Hellenistic World and Rome.

*3313.1(2) Art in Late Antiquity and Europe to the 14th Century

[RELS 3372.1(2)]

Christian art borrowed themes and motifs from the pagan past and created new, particularly Christian subjects. This course will study catacomb paintings, Byzantine icons, art in the Carolingian Renaissance, the art of Vikings and conclude with a study of the magnificent Romanesque and Gothic cathedrals.

3352.1(.2) Women in Antiquity I

[RELS 2352.1(.2); WMST 3352.1(.2)]

Medea's passion, Aspasia's intellect, and the famous Cleopatra's tragic brilliance are all present in the women of antiquity. This course will examine the ways in which women of different social classes lived in the ancient Near East, including Ancient Israel, and Greece. The development of women's roles and relationships between men and women will be considered in the context of history, religion, myth, and literature.

3353.1(.2) Women in Antiquity II

[RELS 2353.1(.2); WMST 3353.1(.2)]

Roman women were doctors, artists, large landowners, beloved wives and mothers. Some, like Dido and Lesbia, were subject matter for famous poets. In this course we will also examine how the development of Christianity in the Roman Empire both softened some abuses against women and aggravated others. From archaeology, literature, and religion, this course examines women's lives from Hellenistic times until the end of the Roman Empire

4401.1(.2) Directed Study I

A three (3) credit hour course open to students who wish to pursue a special topic or topics in Classics through tutorials, independent study, and research. The availability of this course depends upon the agreement of a particular faculty member who is prepared to direct the tutorial and study program.

4402.1(.2) Directed Study II

A three (3) credit hour course open to students who wish to pursue a special topic or topics in Classics through tutorials, independent study, and research. The availability of this course depends upon the agreement of a particular faculty member who is prepared to direct the tutorial and study program.

Classics – Ancient Egyptian (EGYP)**IMPORTANT**

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, EGY 3300.0 was formerly EGP 300.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR

COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
---------------------	----------------

EGP 300	EGYP 3300
EGP 400	EGYP 4400
EGP 450	EGYP 4450

3300.0 Classical Egyptian

Prerequisite: none, but students are advised to consult with instructor before registering.

An intensive study of the language and grammar of Middle Egyptian, the classical language of ancient Egypt. Students will examine the grammatical possibilities of the language and receive intensive exercise in the decipherment and interpretation of the hieroglyphs.

4400.0 Readings in Middle Egyptian

Prerequisite: EGY 3300.0.

Students will read, analyze and interpret selected texts from Middle Egyptian, e.g., Coffin Texts, Sinuhe, Book of the Dead, The Dispute Between a Man and his Ba, The Eloquent Peasant, etc.

4450.0 Readings in Old and Late Egyptian

Prerequisite: EGY 3300.0.

Selected readings from the Pyramid Texts, the Amarna Texts, Horus and Seth, the Mes Inscription, the Deir el-Medineh ostraca, etc. Students will be introduced to the analytic forms of the Late Egyptian language as opposed to the synthetic forms of Middle Egyptian.

Classics – Greek (GREK)**IMPORTANT**

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, GREK 1000.0 was formerly GRE 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous	New
Course #'s	Course #'s

GRE 100	GREK 1100
GRE 200	GREK 2200

1100.0 Introductory Ancient Greek

An introductory course covering the major grammatical points of the ancient Greek language. This course will be followed in succeeding years by more advanced courses in the reading and interpretation of classical authors.

2200.0 Second Year Ancient Greek

Prerequisite: GREK 1100.0.

An application of the major grammatical points of the ancient Greek language through the reading of selected works of classical authors:

- i. Homer, Iliad
- ii. Xenophon, Anabasis
- iii. the dramatists
- iv. lyric poetry

Classics – Latin (LATN)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, LATN 1000.0 was formerly LAT 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE

ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous	New
Course #'s	Course #'s

LAT 100	LATN 1100
LAT 201	LATN 2200
LAT 403	LATN 3300

1100.0 Introduction to Latin

A course in the essentials of Latin grammar for students beginning their study of this ancient language. Since Latin is an inflected language with many changes in endings, students should be prepared to work hard at understanding and learning its basic structures.

2201.0 Intermediate Latin

Prerequisite: LATN 1100.0 or equivalent.

This course aims to enhance the development of good techniques of Latin-English translation and of rendering English into idiomatic Classical Latin. A variety of Latin authors and the continued study of Latin grammar will be utilized to achieve those objectives.

Modern Languages – Arabic (ARBC)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, ARBC 1100.0 was formerly ARA 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous	New
Course #'s	Course #'s

ARA 100	ARBC 1100
ARA 200	ARBC 2200
ARA 307	ARBC 3307
ARA 308	ARBC 3308

1100.0 Introduction to Arabic

An introductory language course for those beginning the study of Arabic language and culture. This course is designed to offer an initial competency in Arabic, and is not offered to those with an Arabic-speaking background.

2200.0 Intermediate Arabic

Prerequisite: ARBC 1100.0.

This course is intended as a continuation of Arabic 1100 for non-Arabic speaking students. It is designed to offer better competency in speaking, reading, and writing Arabic.

Arabic Language Skills I

3307.1(2) Prerequisite: ARBC 2200.0.

This course aims to develop additional proficiency in Arabic in speaking, reading and writing. This course has a strong grammar component and is intended for Arabic-speaking students or those with a developed level of ability beyond that of Arabic 2200.0

3308.1(2) Arabic Language Skills II

Prerequisite: ARBC 3307.1(2).

This course continues the work begun in ARBC 3307.1(2) and aims to further develop the student's proficiency in Arabic.

Modern Languages – Chinese (CHNS)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, CHNS 1100.0 was formerly CHI 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR

COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous	New
Course #'s	Course #'s

CHI 100	CHNS 1100
CHI 200	CHNS 2200

1100.0 Introductory Modern Chinese

An introduction to spoken and written modern Chinese (Mandarin). Conversational drill and comprehension exercises in the classroom and laboratory provide practice in pronunciation and in the use of the basic patterns of speech. Chinese ideographs are introduced and studied in combinations. Reading progresses from prepared materials to selections from contemporary writings.

2200.0 Intermediate Modern Chinese

Prerequisite: CHNS 1100.0.

A continuation of CHNS 1100.0, this course is intended to develop proficiency in both oral and written Chinese with emphasis on comprehension. Textbooks, newspapers, magazines, and modern short stories will be used, especially in the second semester, to help students acquire the ability to read and write.

3300.1(2) Advanced Oral and Written Chinese I

Prerequisite: CHNS 2200.0

This course offers an opportunity to build and refine students' ability to comprehend and to communicate effectively in Chinese.

3301.1(2) Advanced Oral and Written Chinese II

Prerequisite: CHNS 3300.1(2)

This course is a continuation of CHNS 3300.1(2).

Modern Languages – French (FREN)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, FREN 1111.1(2) was formerly FRE 110.0.

Students are urged to be extremely careful not to register again for a course for which they have already

earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
FRE 110	FREN 1111 FREN 1121	FRE 410	FREN 4410
FRE 200	FREN 2201 FREN 2202	FRE 412	FREN 4412
FRE 230	FREN 2230	FRE 416	FREN 4416
FRE 231	FREN 2231	FRE 417	FREN 4417
FRE 250	FREN 2235 FREN 2236	FRE 418	FREN 4418
FRE 305	FREN 3305 LING 3305	FRE 422	FREN 4422
FRE 307	FREN 3307	FRE 426	FREN 4426
FRE 308	FREN 3308	FRE 427	FREN 4427
FRE 310	FREN 3310	FRE 428	FREN 4428
FRE 312	FREN 3312	FRE 433	FREN 4433
FRE 320	FREN 3320 LING 3321	FRE 434	WMST 4433
FRE 321	FREN 3321	FRE 435	FREN 4434
FRE 325	FREN 3325	FRE 436	FREN 4435
FRE 331	FREN 3331	FRE 437	FREN 4436
FRE 335	FREN 3335	FRE 438	FREN 4437
FRE 340	FREN 3340 LING 3341	FRE 439	FREN 4438
FRE 350	FREN 3350	FRE 440	FREN 4440
FRE 351	FREN 3351	FRE 451	LING 4440
FRE 400	FREN 4400	FRE 452	FREN 4451
FRE 405	FREN 4405	FRE 456	FREN 4452
		FRE 460	FREN 4460
		FRE 461	FREN 4461
		FRE 490	FREN 4490
		FRE 491	FREN 4491
		FRE 501	FREN 5501
		FRE 502	FREN 5502

1111.1.(2) Beginners’ French Level I

Prerequisite: placement test.

An introductory course for students who have had some formal training in French but not enough to justify their admission to FREN 2201.1.(2) and 2202.1.(2) as demonstrated on the placement test. Students who have completed two (2) years of senior high Core French or equivalent are not eligible for enrollment in this course.

1112.1.(2) Beginners French Level II

Prerequisite: FREN 1111.1.(2) taken within twelve (12) months and/or placement test.

This course continues the elementary skill development started in Level I, and is intended for students who have not completed Grade 12 French.

2201.1.(2) Basic University French Level I

Prerequisite: placement test or FREN 1111.1.(2) and 1112.1.(2) with a minimum grade of C.

A student enrolling in this course should have completed three (3) years of senior high “core” French or already possess an equivalent knowledge of French, as demonstrated on the placement test. This is a general language course for non- or pre-majors with emphasis placed on developing communicative skills. Taught in French.

Note: This course cannot be counted for the French major and is not intended for immersion students or those having had enriched or extended French programs, or students with a francophone background.

2202.1.(2) Basic University French Level II

Prerequisite: FREN 2201.1.(2) with a minimum grade of C and/or placement test.

Taught in French, this general language course continues in the development of the basic skill set studied in Level I, with emphasis on oral functional ability.

Note: FREN 2202.1.(2) must be taken within twelve (12) months of completing Level I. This course cannot be counted for the French major and is not intended for immersion students or those having had enriched or extended French programs, or students with a francophone background

2230.1.(2) French Communication Skills

Prerequisite: FREN 2201.1.(2) and 2202.1.(2) or equivalent with a minimum grade of C.

This course builds on language skills acquired in other French courses to enhance the student’s ability to communicate in French.

Note: This course cannot be counted for the French major and is not intended for immersion students or students with a francophone background.

2231.1.(2) French Reading and Writing Skills

Prerequisite: FREN 2201.1.(2) and 2202.1.(2) or equivalent with a minimum grade of C.

This course focuses on improving students’ ability to understand and produce written texts. It is designed to complement more general French courses by concentrating on the enhancement of reading and writing abilities. The course helps students acquire greater ease of comprehension and expression through study of contemporary texts and application of specific writing techniques.

Note: This course cannot be counted for the French major and is not intended for immersion students or students with a francophone background.

2235.1.(2) Intermediate French Level I

Prerequisite: placement test or six (6) credit hours in FREN at the 2000 level or equivalent with a minimum grade of C.

Taught in French, this is a general language development course at a more intensive level involving oral and written practice and a review of grammar. This is the normal starting point for majors, immersion students, and those having had enriched or extended French programs. Students with more developed skills, including Francophones, start at the 3000 level.

2236.1.(2) Intermediate French Level II

Prerequisite: FREN 2235.1.(2) or equivalent with a minimum grade of C and/or placement test.

This intensive course further expands the oral and written proficiency standards covered in Level I. Level II must be taken within twelve (12) months of completing Level I. Students with more developed skills, including Francophones, start at the 3000 level.

*3305.1.(2) Acadian Language and Culture [LING 3305.1.(2)]

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) or equivalent with a minimum grade of C.

This course relates the current linguistic situation in the Acadian communities of the Atlantic Provinces to the social and historical situation which has influenced the development of the French language in these areas. The course has a strong practical component intended to help students identify the specific structures of this variety of French. Authentic recordings of Acadian speakers are analyzed, as well as films and literary texts. A general objective of the course is to enhance students' knowledge of the socio-cultural background of the Acadian speech communities.

3307.1.(2) Advanced French Language Skills I

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) with a minimum grade of C.

A practical course intended to continue the development of the student's Linguistic abilities. This course focuses on writing skills, yet also includes the aural/oral practice necessary for advanced studies in French. Knowledge of intermediate level grammar is assumed. Grammatical points will be reviewed as required.

Note: This course is compulsory for all students who intend to major in French.

3308.1.(2) Advanced French Language Skills II

Prerequisite: FREN 3307.1.(2) with a minimum grade of C.

Taught in French, this is a language development course focusing on written and oral communication at an advanced level and in formal contexts. Grammar points may be reviewed as required but do not form the focal point of the course. This course is compulsory for French majors. A practical course intended to continue the development of the student's Linguistic abilities. This course focuses on writing skills, yet also includes the aural/oral practice necessary for advanced studies in French. Contemporary texts as well as audio-visual material will provide a basis for discussion and writing. Knowledge of intermediate level grammar is assumed. Grammatical points will be reviewed as required.

Note: This course is compulsory for all students who intend to major in French.

*3310.1.(2) Introduction to French Culture

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) with a minimum grade of C

This course focuses on contemporary French culture, France's role in the European Union and the country's efforts to reconcile modern developments and ethnic diversity with tradition. Topics covered include history, politics, education, the arts and gastronomy. Films, TV broadcasts, slides, and magazine and newspaper articles will assist students in developing informed perspectives on French culture. This course is of particular interest to current or prospective French teachers.

*3312.1.(2) Introduction to Quebec Culture

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) with a minimum grade of C

This course informs students about present-day life in Quebec. Topics covered include bilingualism, politics, education, the arts and leisure. Students will gain a deeper understanding of and appreciation for contemporary Quebec culture. This course is of particular interest to current or prospective teachers of French.

3320.1.(2) French Phonetics

[LING 3320.1.(2)]

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) with a minimum grade of C

A course for students beyond the intermediate level who wish to improve their pronunciation. Knowledge of intermediate level grammar is assumed.

3321.1.(2) Writing in French

Prerequisite: FREN 2235.1.(2) and 2236.1.(2) with a minimum grade of C

A course for students beyond the intermediate level who wish to improve their command of written French by engaging in a variety of writing activities involving the production of different types of texts. Knowledge of intermediate level grammar is assumed.

3325.1(2) French Speech Strategies: Managing Conversations

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C

This conversation course involves practice in developing strategies for use in day to day communication. By means of application activities, students learn specific language strategies that will help them become effective and persuasive conversationalists. Recommended for students interested in achieving strategic competence in spoken French.

3331.1(2) French Review Grammar

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C

Is your grammar rusty? This intensive review of French grammar covers the basic points and those aspects of language use that are particularly difficult for English speakers. This course is of interest to those wanting to perfect their accuracy, to broaden their knowledge of French structure.

3335.1(2) French for Business

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C or placement test.

Students will acquire the basic vocabulary and reading skills necessary to understand business correspondence, reports, and articles in French, as well as writing skills to allow written communication in French in a Canadian commercial context.

3340.1(2) Linguistic Study of French

[LING 3341.1(2)]

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C

The principles of linguistic analysis are introduced through a study of the French language from a broad range of approaches. While becoming aware of the specific structure of French, the student will gain general insight into how a language functions. The course also examines the relationship between language patterns and social and geographic diversity, as illustrated by the French Canadian linguistic situation. The course will be given in English, but presupposes competence in French.

***3350.1(2) Introduction to Literature Written in French, I**

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C

A selection of modern writing in French drawn from poetry, fables, short stories, drama and novels. The purpose of this course is to teach students to read literary language, to grasp structural relationships, and to interact with various works in terms of theme, character portrayal and style.

Note: This course is required of all students who intend to major or take honors in French.

***3351.1(2) Introduction to Literature Written in French, II**

Prerequisite: FREN 2235.1(2) and 2236.1(2) with a minimum grade of C

A selection of modern writing in French drawn from poetry, fables, short stories, drama and novels. The purpose of this course is to teach students to read literary language, to grasp structural relationships, and to interact with various works in terms of theme, character portrayal and rhetorical devices.

Note: This course is required of all students who intend to major or take honors in French.

4400.1(2) French Speech Strategies: Perfecting Oral Skills

Prerequisite: Six (6) credit hours in FREN credit at the 3000 level.

An examination of speech acts and discursive features of language use found in real situations. Students practice how to structure and manage conversations at an advanced level in order to attain a higher level of oral proficiency.

Discussions, debates and oral reports on current events form the central point of this course. Of particular interest to current or prospective teachers of French.

***4405.1(2) Acadian Literature and Society**

Prerequisite: Six (6) credit hours in FREN at 3000 level with a minimum grade of C.

This course traces the evolution of Acadian society through a study of literary genres including novels, short stories, theatre, poetry, chronicles, folklore, oral tradition, as well as artistic modes of expression other than literature. A variety of texts and visual material is used to present the socio-historical background and the contemporary cultural situation.

***4410.1(2) La France en Chansons**

Prerequisite: FREN 3350.1(2) and 3351.1(2) with a minimum grade of C. FREN 3310.1(2) is recommended.

Songs are part of daily life and reflect the evolution of the society in which they are rooted. They also have a genuine poetical value and in this respect, they are timeless. The purpose of this course is two-fold; first, to examine the cultural and historical background behind the works of France's most prestigious songwriters; second, to analyze the literary value of the lyrics. This course is of particular interest to prospective teachers of French.

***4412.1(2) Quebec Literature and Society**

Prerequisite: FREN 3350.1(2) and 3351.1(2) or FREN 3307.1(2) and 3308.2(1) with a minimum grade of C.

This course provides an overview of Quebec through a study of its major works. Various aspects of the cultural background are presented, including language, religion, and art. The course also examines the historical evolution leading to the particular situation of present-day Quebec.

***4416.1(2) The Eighteenth Century**

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

A study of some of the major works of the eighteenth century with special emphasis given to *Les liaisons dangereuses* and the epistolary novel.

***4417.1(2) The Romantic Period**

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

A study of some of the major works of the first half of the nineteenth century and the Romantic Movement which gave them form.

4418.1(2) Realism and Naturalism

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

A study of some of the major novels of the second half of the nineteenth century and the literary movements which gave them form.

4422.1(2) Introduction to Literary Analysis

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

The purpose of this course is to provide an understanding of contemporary francophone literature and thought through exposure to theatre, short stories and film scripts. The course will serve as an introduction to formal critical analysis of literature. We will examine how a text functions at various levels: intellectual, formal and symbolic, and how the coherence of a literary work reveals itself. In addition, this course will provide opportunities for the student to learn how to organize a literature assignment (oral and written) and how to ground his/her thinking in the text.

***4426.1(2) The French Short Story**

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

A study of a wide variety of modern short stories (19th and 20th centuries) illustrating the richness of this genre in francophone literature.

***4427.1(2) Classical and Romantic French Theatre**

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

The course is designed to examine what is specific to theatre as a literary genre. It focuses on some of the major works of French dramatic literature of the 17th to 19th centuries.

***4428.1(2) Modern French Theatre**

Prerequisite: FREN 3350.1(.2) and 3351.1(.2) with a minimum grade of C.

The course is designed to examine what is specific to theatre as a literary genre. It focuses on some of the major works of modern French dramatic literature (Theatre of the Absurd, Existentialist theatre, "Nouveau théâtre").

***4433.1(2) Women's Literature in France**

[WMST 4433.1(.2)]

Prerequisite: For FREN students, FREN 3307.1(.2), 3308.1(.2), and 3350.1(.2), 3351.1(.2) with a minimum grade of C. For WMST students, three (3) credit hours in WMST and six (6) credit hours in FREN at the 3000 level with a minimum grade of C.

This course will provide an introduction to French women's writing emphasizing the plurality of women's voices. The course contains an historical overview of women's writing in France and an analysis of individual texts based on feminine perspectives.

***4434.1(2) Women's Literature in French Canada**

[WMST 4434.1(.2)]

Prerequisite: For FREN students, FREN 3307.1(.2), 3308.1(.2), and 3350.1(.2), 3351.1(.2) with a minimum grade of C. For WMST students, three (3) credit hours in WMST and six (6) credit hours in FREN at the 3000 level with a minimum grade of C.

This course will provide an introduction to French Canadian women's writing emphasizing the plurality of women's voices. The course contains an historical overview of women's writing in French Canada and an analysis of individual texts based on feminine perspectives.

4435.1(2) Advanced Grammar I

Prerequisite: FREN 3307.1(.2) and 3308.1(.2) and 3321.1(.2) or 3331.1(.2), each with a minimum grade of C.

A systematic review of the main points of French grammar within the context of a theoretical framework describing the nature and function of different parts of speech and the structure of simple and compound sentences. Strongly recommended for majors.

4436.1(2) Advanced Grammar II

Prerequisite: FREN 4435.1(.2) with a minimum grade of C.

A systematic review of the main points of French grammar within the context of a theoretical framework describing the nature and function of different parts of speech and the structure of simple and compound sentences. Strongly recommended for majors.

4437.1(2) Comparison of English and French Stylistics I

Prerequisite: FREN 3307.1(2) and 3308.1(2).

A course designed to increase the students' knowledge of French beyond vocabulary and grammar and to enable them to grasp the similarities and divergences between French and English. The course involves practice in French/English translation and emphasizes the theoretical aspects of French and English stylistics which aid in establishing a method for translation.

4438.1(2) Comparison of English and French Stylistics II

Prerequisite: FREN 3307.1(2) and 3308.1(2).

A course designed to increase the students' knowledge of French beyond vocabulary and grammar and to enable them to grasp the similarities and divergences between French and English. The course involves practice in French/English translation and emphasizes the theoretical aspects of French and English stylistics which aid in establishing a method of translation.

4440.1(2) Canadian French: Sociolinguistic Perspectives [LING 4440.1(2)]

Prerequisite: six (6) credit hours of FREN at the 3000 level or equivalent.

This course will examine the major features which distinguish Canadian French from European French, as well as the characteristics of the different varieties of French spoken in Canada, in particular Acadian and Quebecois French. The relationship between language and society will be studied both as a source of linguistic change and as a determining factor in current speech patterns. Authentic recorded speech samples will be used to illustrate the various aspects studied and will also serve to familiarize students with the French language as spoken in Canada.

***4451.1(2) Quebecois Literature I**

Prerequisite: FREN 3350.1(2) and 3351.1(2) with a minimum grade of C.

A study of selected major works in Quebec literature from 1935 to 1960 in the context of their socio-cultural background.

***4452.1(2) Quebecois Literature II**

Prerequisite: FREN 3350.1(2) and 3351.1(2) with a minimum grade of C.

A study of selected major works in Quebec literature from 1960 to the present in the context of their socio-cultural background.

***4455.1(2) Parralittérature**

Prerequisite: FREN 3350.1(2) and 3351.1(2) with a minimum grade of C.

Students will analyze a mixture of French and Québécois para literary works of the 20th century. A theoretical framework will help students understand the social background and the defining features of unconventional, non-mainstream fiction.

***4460.1(2) 20th Century French Literature**

Prerequisite: FREN 3350.1(2) and 3351.1(2) with minimum grade of C.

A study of the important literary movements in French literature from 1900 to the New Novel of the 1950's.

***4461.1(2) Contemporary French Literature**

Prerequisite: FREN 3350.1(2), 3351.1(2) and 3307.1(2) and 3308.1(2), with a minimum grade of C.

The course focuses on France's major authors from the 1980s to the present. The course explores how the traditional literary genres of theatre, poetry and the novel are often replaced by free-form genres, especially in the works of women writers.

4490.1(2) Directed Study I

A three (3) credit hour course open to students who wish to study a special author or subject through tutorials, independent study and research. The availability of this course depends upon the agreement of a particular faculty member who is prepared to direct the readings and study.

4491.1(2) Directed Study II

A three (3) credit hour course open to students who wish to study a special author or subject through tutorials, independent study and research. The availability of this course depends upon the agreement of a particular faculty member who is prepared to direct the readings and study.

5501.1(2) The Honors Essay I

French Honors' students are required to submit a substantial essay or complete a research project selected and prepared in conjunction with a faculty advisor.

5501.1(2) The Honors Essay II

French Honors' students are required to submit a substantial essay or complete a research project selected and prepared in conjunction with a faculty advisor.

Modern Languages – German (GRMN)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, GRMN 1101.1(.2) was formerly GER 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
GER 100	GRMN 1101 GRMN 1102	GER 302	GRMN 3311 GRMN 3312
GER 200	GRMN 2201 GRMN 2202	GER 330 GER 331	GRMN 3330 GRMN 3331
GER 306	GRMN 3306	GER 401	GRMN 4401
GER 305	GRMN 3307	GER 406	GRMN 4406
GER 310	GRMN 3308	GER 407	GRMN 4407

1101.1(.2) Introduction to the German Language I

An introductory language course for those beginning the study of German. Basic linguistic structures will be studied with particular emphasis on the oral aspects.

1102.1(.2) Introduction to the German Language II

Prerequisite: GRMN 1101.1(.2) or equivalent with a minimum grade of C.

This course continues the work begun in GRMN 1101.

2201.1(.2) Intermediate German I

Prerequisite: GRMN 1101.1(.2) and 1102.1(.2) (or equivalent) with a minimum grade of C.

A continuation of elementary German, with emphasis on grammar, conversation, and reading.

2202.1(.2) Intermediate German II

Prerequisite: GRMN 2201.1(.2) with a minimum grade of C.

A continuation of 201.1(.2) with emphasis on conversation, reading, and writing.

*3306.1(.2) German Culture and Civilization

Readings, lectures, slide showings, and films on the culture and civilization of Germany. Concentration will be on Germany from 1871 on: politics, history, literature, and art will be investigated. This course is taught in English.

*3307.1(.2) Introduction to German Literature

Prerequisite: GRMN 2202.1(.2).

A survey of the major periods of German literature from the Baroque Age to Modern times. The course will provide the student with an introduction into literary analysis and interpretation.

*3308.1(.2) Modern German Literature

Prerequisite: GRMN 2202.1(.2).

A study of trends in German literature since the First World War. Poetry, plays, and short stories are read and analyzed.

3311.1(.2) Advanced Oral and Written German I

Prerequisite: GRMN 2302.1(.2) or equivalent.

This course offers an opportunity to build upon and refine students' ability to comprehend and to communicate effectively in German. Multimedia materials are used to supplement course materials.

3312.1(.2) Advanced Oral and Written German II

Prerequisite: GRMN 3311.1(.2) or equivalent.

This course is a continuation of German 311.1(.2).

3330.1(.2) Introduction to Business German I

Prerequisite: GRMN 1101.1(.2) and 1102.1(.2) (or equivalent) with a minimum grade of C.

The main objective of this course is to familiarize students with business vocabulary and commercial correspondence in German. Parallel to the study and writing of business letters, there will be a thorough review of grammatical structures in the German language.

3331.1(.2) Introduction to Business German II

Prerequisite: GRMN 3330.1(.2) with a minimum grade of C.

This is a continuation of the material introduced in GRMN 3330.1(.2).

*4401.1(.2) German Contemporary Literature

Prerequisite: GRMN 2202.1(.2) with a minimum grade of C.

A study of significant prose works and plays in German literature from 1945 to the present.

4490.1(2) Independent Study

Prerequisite: permission of instructor.

This course is for students who have a good working knowledge of German, a special interest in German literature, and who want to study a particular author through directed, independent readings.

4491.1(2) Special Topics

Prerequisite: permission of the instructor.

This course is for students who have a good working knowledge of German, a special interest in German literature, and who want to study a particular area through directed, independent readings.

Modern Languages – Japanese (JPNS)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, JPNS 1100.0 was formerly JPN 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s
---------------------	----------------

JPN 100	JPNS 1100
JPN 200	JPNS 2200
JPN 300	JPNS 3300
JPN 301	JPNS 3301

1100.0 Introductory Japanese

An introductory language course for those beginning the study of Japanese language and culture. Classroom activities will provide practice in pronunciation and the use of basic patterns of speech. Written Japanese will be introduced and studied.

2200.0 Intermediate Japanese

Prerequisite: JPNS 1100.0 or equivalent.

A continuation of introductory Japanese, intended to develop proficiency in oral, aural and written Japanese within the context of Japanese culture.

3300.1(2) Advanced Oral and Written Japanese I

Prerequisite: JPNS 2200.0.

This course offers an opportunity to build and refine students’ ability to comprehend and to communicate effectively in Japanese.

3301.1(2) Advanced Oral and Written Japanese II

Prerequisite: JPNS 3300.0.

This course is a continuation of JPNS 3300.1(2).

Modern Languages – Spanish (SPAN)

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the “old” course number – for example, SPAN 1100.0 was formerly SPA 100.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
---------------------	----------------	---------------------	----------------

SPA 100	SPAN 1100	SPA 306	SPAN 3306
SPA 204	SPAN 2204	SPA 310	SPAN 3310
SPA 205	SPAN 2205	New Course	SPAN 3312
SPA 206	SPAN 2206	SPA 402	SPAN 4402
SPA 230	SPAN 2230	SPA 405	SPAN 4405
SPA 231	SPAN 2231	New Course	SPAN 4416
SPA 303	SPAN 3303	New Course	SPAN 4418
SPA 304	SPAN 3304	SPA 423	SPAN 4423
SPA 305	SPAN 3305	SPA 424	SPAN 4424

1100.0 Introduction to the Spanish Language

Designed to offer a firm initial competency in speaking and writing Spanish. This course requires regular attendance and a willingness to participate.

2204.1.(2) Intermediate Spanish I

Prerequisite: SPAN 1100.0 with a minimum grade of C (or equivalent).

This course is a continuation of elementary Spanish, with emphasis on comprehension, conversation, reading, and writing.

2205.1.(2) Intermediate Spanish II

Prerequisite: SPAN 2204.1.(2) with a minimum grade of C (or equivalent).

This course is a continuation of Intermediate Spanish I, SPAN 204.1.(2).

2206.1.(2) Intermediate Spanish Communication Skills

Prerequisite: SPAN 1100.0 with a minimum grade of C. Concurrent enrollment in SPAN 2204.1.(2) and/or SPAN 2205.1.(2) is strongly recommended.

This course builds on basic language skills acquired in previous study to enhance the student's ability to communicate in Spanish. Students will practice how to structure and manage conversations at an intermediate level in order to increase their oral proficiency in the language. Thorough advanced preparation is required for each class, where oral activities predominate.

2230.1.(2) Spanish for Business I

Prerequisite: SPAN 1100.0 with a minimum grade of C, or equivalent preparation in Spanish.

Designed to acquaint students with basic Spanish language forms used in business, including the specialized terminology of oral and written commercial communication. The cultural aspects of business negotiations in Spanish-speaking countries, together with the economic and political profiles of various Latin American nations and Spain, will be explored. The course emphasizes the development of conversational proficiency through the use of discussion and experiential exercises, and will also include written assignments.

2231.1.(2) Spanish for Business II

Prerequisite: SPAN 1100.0 with a minimum grade of C.

Designed to assist students in furthering their development of oral and written communication skills for the business world. Students will broaden their working vocabulary of business terminology in Spanish and their knowledge of commercial practices in the Spanish-speaking world. Oral and written assignments will provide an understanding of the economic, social, and political panorama of Spanish-speaking Latin America and Spain.

3303.1.(2) Advanced Oral and Written Spanish I

Prerequisite: SPAN 2204.1.(2) and 2205.1.(2) with a minimum grade of C.

This course is designed to build upon and refine the students' ability to comprehend and to communicate effectively in Spanish.

***3304.1.(2) Americas: The Changing Face of Latin America**

Given in English, this course is an introduction to selected aspects of present-day Latin America and the Caribbean through a screening of video material and selected readings. The course focuses on a wide range of issues, and may include economic development, migration, racial identity, and the role of women, religion, and the work of creative artists, national sovereignty, and revolution. This course contributes to satisfying the Faculty of Arts humanities 3c requirement but does not fulfill the 3b requirement.

***3305.1.(2) Contemporary Spanish Society**

Given in English, this course is an introduction to Spanish culture and society. Drawing on video, audio, and print materials, the course explores the reality of modern-day Spain through an examination of topics such as the physical and human geography of Spain; the Spanish encounter of the New World; stereotypes of Spanish Folklore and national character; Spanish contributions to world art and literature; the legacy of Francisco Franco; the changing role of women in national life; religions and religious faith; the transition from rural existence to modern urban life; and the image of Spain today. This course fulfills the Faculty of Arts humanities 3c requirement but does not fulfill the 3b requirement.

3306.1.(2) Advanced Oral and Written Spanish II

Prerequisite: SPAN 3303.1.(2).

This course is a continuation of Advanced Oral and Written Spanish I, SPAN 3303.1.(2).

***3310.1.(2) Latin America Culture**

Prerequisite: SPAN 2204.1.(2) and 2205.1.(2) with a minimum grade of C.

This course introduces a broad range of cultural and artistic manifestations of Latin America, both past and present. Topics may include indigenous cultures in the Americas, the importance of European culture to the New World, and the effort to preserve a distinct Latin American culture. The course will be conducted entirely in Spanish.

3312.1 (.2) The Introduction to Latin American Literature

Prerequisite: 3.0 credit hours in Spanish at the 1000-level or equivalent, with a minimum grade of C.

Designed for students who are learning Spanish as a second language, this course provides an overview of Latin American literature across a range of possible genres: narrative, poetry, theatre, and the essay. In addition to introducing students to the dynamics of these various forms

of literary expression, this course uses literary texts as windows for looking into their historical backdrop, and the social, political, and cultural issues that they raise. This course is conducted entirely in Spanish.

***4404.1(.2) 20th Century Latin American Literature I**

Prerequisite: six (6) credit hours of SPAN at the 3000 level or equivalent.

An introduction to the principal literary movements and works of the 20th century in Latin America. A variety of genres will be considered.

***4406.1(.2) 20th Century Latin American Literature II**

Prerequisite: six (6) credit hours of SPAN at the 3000 level or equivalent.

A continuation of SPAN 4404.1(.2) which deals with more recent literary movements and works of the 20th century in Latin America. A variety of genres will be considered.

***4407.1(.2) 20th Century Spanish Literature I**

Prerequisite: six (6) credit hours of SPAN at the 3000 level or equivalent.

An introduction to the principal literary movements and works of the 20th century in Spain. A variety of genres will be considered.

***4409.1(.2) 20th Century Spanish Literature II**

Prerequisite: six (6) credit hours of SPAN at the 3000 level or equivalent.

A continuation of SPAN 4407.1(.2) which deals with more recent literary movements and works of the 20th century in Spain. A variety of genres will be considered.

4416.1 (.2) Latin American Literature of Social Change

Prerequisites: 6.0 credit hours in Spanish at the 2000-level or equivalent, with a minimum grade of C.

The course examines a selection of literary works that have emerged in correlation with Latin America's most important socio-political revolutions from the Encounter to the present day. This course is conducted entirely in Spanish.

4418.1 (.2) Latin American Literature of Social Change II

Prerequisites: 6.0 credit hours in Spanish at the 2000-level or equivalent, with a minimum grade of C.

The course examines a selection of literary works that have emerged in correlation with Latin America's most important socio-political revolutions from the Encounter to the present day. This course is conducted entirely in Spanish.

4423.1(.2) Independent Study

Prerequisite: permission of instructor.

A tutorial course open to students who wish to study a particular topic, subject, or author largely through independent reading and research. Registration in the course is made after consultation with the appropriate member of the Department, who will organize the program of studies.

4424.1(.2) Independent Study

Prerequisite: permission of instructor.

A tutorial course open to students who wish to study a particular topic, subject, or author largely through independent reading and research. Registration in the course is made after consultation with the appropriate member of the Department, who will organize the program of studies.



The "Haligonians" pause for a group photo during the 18-hour train ride on their way home from the CS Games in Laval. A team of students from Saint Mary's and Dalhousie University has captured the coveted First Prize in Web Design at the 2005 CS Games. Held at Laval University from March 4-6, The CS Games is an inter-university competition which attracts undergraduate Computer Science, Computer Engineering and Software Engineering students from across North America.

Philosophy (PHIL)

Chairperson	J. MacKinnon
Undergraduate Advisor	L. Gannett
Graduate Programme Coordinator	C. MacDonald
Professor	S. Wein
Associate Professors	S. Crooks, J. MacKinnon, P. March, M. Mercer
Assistant Professors	R. Ansell, L. Gannett, C. MacDonald
Professors Emeriti	W. Grennan, W.A. Stewart

General Information

Throughout our lives, we are frequently assailed by philosophical perplexity. Are knowledge and morals a matter of preference and perspective, or are there such things as objective truths and values? What indeed is worth valuing? Is there a God? Is the mind separable from the body? What is the nature of meaning? How ought we to organize ourselves in society? How can we balance considerations of liberty with those of equality?

The ultimate aim of a philosophy course is not merely to assist students in understanding the writings of those thinkers who have addressed these important issues, but also to equip students with the means by which they themselves can profitably grapple with the same questions. A student's development within the discipline, therefore, depends not just on a critical and imaginative engagement with the material, but on dialogue with others, both inside and outside of the classroom.

Philosophy furnishes a good grounding for adulthood and citizenship, since it contributes so significantly to the development of inquisitive and independent minds. Given the emphasis in philosophy on argument and analysis, there is perhaps no better preparation for a career in law. And since philosophy places a premium on precision of thought and expression, it provides an excellent background for a career in journalism and publishing, policy-making, education, and counseling. Philosophy graduates also attest to the indispensable value of their education to careers in research and planning, technical services, management, and medicine.

The Department of Philosophy offers a full range of undergraduate courses. Students may obtain an honors degree in philosophy, be a philosophy major, do a minor in philosophy or earn a concentration in Philosophy. Students should consult with the undergraduate advisor to arrange a selection of courses that fits their individual interests and meets Department requirements. In addition, the Department offers a pre-law option and a master's degree.

PHI 1200.0 is the **ONLY** philosophy course that satisfies regulation 3b of the Faculty of Arts degree requirements.

1. Major in Philosophy

Students majoring in philosophy must complete at least thirty-six (36) credit hours in philosophy. At least twenty-four (24) of these credit hours must be above the 1000 level, and of these twenty four credit hours, at least twelve (12) credit hours must be at the 3000 level or above.

2. Major in Philosophy: Pre-Law

Students majoring in philosophy and taking the pre-law option must complete all the requirements for a major in philosophy. It is recommended that they take the following courses:

PHI 1200.0 Critical Thinking
PHI 2302.0 Ethics
PHI 2332.1(.2) Ethics and the Law
PHI 2333.1(.2) Philosophy of Law

3. Double Major

A student may major in philosophy and another subject. The student normally completes thirty-six (36) credit hours in philosophy and should consult the undergraduate advisor.

4. Honors Program

To qualify for the degree of Bachelor of Arts (Honors) in philosophy, a student must: (a) meet the general requirements of the Faculty of Arts set out in regulations 8-14, Section 3 of this *Calendar*; and (b) complete sixty (60) credit hours in philosophy, no more than twelve (12) credit hours at the 1000 level and a minimum of twenty-four (24) credit hours at or above the 3000 level. Typically, an honors graduate will have completed twelve (12) credit hours in 1000-level credits, twenty-four (24) credit hours in 2000-level credits, and twenty-four (24) credit hours in 3000-level credits. Eligible students have the option of completing an Honors Thesis (PHI 4599.0). The Chairperson or the Undergraduate Advisor will assist the student in selecting these courses.

5. Double Honors

Double Honors in Philosophy and Physics:
Students pursuing a Bachelor of Arts (Honors) in philosophy and physics or a Bachelor of Science (Honors) in physics and philosophy must complete a minimum of forty-two (42) credit hours of courses in each discipline. Philosophy course recommendations include nine (9) credit hours in core courses (PHIL 1255.1(.2)/PHYS 1255.1(.2), PHIL 2318.1(.2), PHIL 3448.1(.2), or PHIL 4515.1(.2)/PHYS 4515.1(.2) [counting as nine (9) hours from PHIL and three (3) hours from PHYS], twelve (12) credit hours in history of philosophy, twelve (12) credit hours in contemporary philosophy, and nine (9) additional credit hours. It is recommended that Bachelor of Arts (Honors) students also complete the honors thesis, PHI 4599.0, while Bachelor of Science (honors) students are required to complete PHYS 4500.0. Please consult the Astronomy and Physics Calendar entry for detailed four-year plans for each of these combined degree options. Students are also encouraged to consult each department's undergraduate advisor for further details.

6. Minor in Philosophy

A minor in philosophy requires a minimum of twenty-four (24) credit hours, at least twelve (12) credit hours of which must be above the 1000 level.

7. Concentration in Philosophy

To obtain a concentration in Philosophy in partial fulfillment of the B.A. General degree [i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours], a minimum of twenty-four (24) credit hours in PHIL is required; also a minimum cumulative grade point average of 2.00. Further details are available from the Undergraduate Advisor.

8. Master's Program

The general requirements for a Master of Arts in philosophy are set out in the Faculty of Arts section of this Calendar. 600-level courses are open only to Master of Arts (Philosophy) students. Permission of instructor is necessary.

9. Prerequisites

Except where otherwise stated, the prerequisite for 2000 level courses is at least twenty-four (24) credit hours in the University; the prerequisite for 3000 level courses is six (6) credit hours in philosophy; and the prerequisite for 4000 level courses is twelve (12) credit hours in philosophy, at least six (6) credit hours above the 1000 level.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, PHIL 1200.0 was formerly PHI 200.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
PHI 200	PHIL 1200	PHI 472	PHIL 3472
PHI 201	PHIL 1201	PHI 479	PHIL 3479
PHI 222	PHIL 1222	PHI 491	PHIL 3491

PHI 244	PHIL 1244	PHI 492	PHIL 3492
PHI 245	PHIL 1245	PHI 494	PHIL 3494
New Course	PHIL 1255	PHI 495	PHIL 3495
PHI 301	PHIL 2301	PHI 496	PHIL 3496
PHI 302	PHIL 2302	PHI 497	PHIL 3497
PHI 305	PHIL 2305	PHI 498	PHIL 3498
PHI 311	PHIL 2311	PHI 499	PHIL 3499
New Course	PHIL 2318	New Course	PHIL 4514
PHI 312	PHIL 2312	New Course	PHIL 4515
PHI 325	PHIL 2325	PHI 525	PHIL 4525
PHI 327	PHIL 2327	PHI 565	PHIL 4565
PHI 328	PHIL 2328	PHI 599	PHIL 4599
PHI 330	PHIL 2330	PHI 600	PHIL 6000
PHI 331	PHIL 2331	PHI 601	PHIL 6601
PHI 332	PHIL 2332	PHI 602	PHIL 6602
PHI 333	PHIL 2333	PHI 604	PHIL 6604
PHI 345	PHIL 2345	PHI 605	PHIL 6605
PHI 346	PHIL 2346	PHI 611	PHIL 6611
PHI 348	PHIL 2348	PHI 612	PHIL 6612
PHI 349	PHIL 2349	PHI 616	PHIL 6616
PHI 358	PHIL 2358	PHI 625	PHIL 6625
PHI 362	PHIL 2362	PHI 642	PHIL 6642
PHI 368	PHIL 2368	PHI 643	PHIL 6643
PHI 380	PHIL 2380	PHI 644	PHIL 6644
PHI 400	PHIL 3000	PHI 645	PHIL 6645
PHI 402	PHIL 3402	PHI 646	PHIL 6646
PHI 403	PHIL 3403	PHI 648	PHIL 6648
PHI 406	PHIL 3406	PHI 649	PHIL 6649
PHI 407	PHIL 3407	PHI 652	PHIL 6652
PHI 414	PHIL 3414	PHI 654	PHIL 6654
PHI 415	PHIL 3415	PHI 655	PHIL 6655
PHI 442	PHIL 3442	PHI 656	PHIL 6656
PHI 443	PHIL 3443	PHI 665	PHIL 6665
PHI 444	PHIL 3444	PHI 671	PHIL 6671
PHI 448	PHIL 3448	PHI 672	PHIL 6672
PHI 452	PHIL 3452	PHI 679	PHIL 6679
PHI 454	PHIL 3454	PHI 679	PHIL 6680
PHI 455	PHIL 3455	PHI 685-	PHIL 6685
PHI 456	PHIL 3456	PHI 689	PHIL 6689
PHI 471	PHIL 3471	PHI 697	PHIL 6697
PHI 501	PHIL 4501		
PHI 502	PHIL 4502		

1200.0 Critical Thinking

An introduction to essential principles of reasoning and critical thinking, designed to introduce students to the analysis of concepts, to enhance their ability to evaluate various forms of reasoning and to examine critically beliefs, conventions and theories, and to develop sound arguments. Emphasis will be given to decision-making and arguments in ordinary language, particularly those addressed to issues of public concern and moral debate.

1201.0 Introduction to Philosophy

Philosophy is devoted to the critical and creative examination of such fundamental questions as: What can be known? Does existence have meaning? What is a worthwhile life? What moral obligations do people have to one another? What makes a society just? Philosophy provides systematic training in the framing of these questions and in the rigorous analysis of the issues they involve.

1222.0 Ethics for Modern Life

The course examines competing moral perspectives on topics such as capital punishment, suicide, euthanasia, abortion, genetic engineering, friendship, marriage, parenthood, discrimination, inequality, poverty, foreign aid, and the environment. The aim is to help the student to develop a coherent set of principles to deal with these and other topics.

1244.1.(2) Human Freedom

The traditional problems of free will and political freedom and different concepts and conceptions of freedom and liberation are considered. In addition, there will be an examination of some contemporary thought on freedom and liberation.

1245.1.(2) Philosophies of Life

An examination of the major philosophies of life and an assessment of the reasons for and against their adoption. Consideration will be given to various forms of collectivism and individualism and to various views of what is ultimately worth striving for.

1255.1 (.2) Scientific Method

This course provides a historical and logical analysis of methods commonly used in science. Possible topics include science vs. pseudo-science, natural vs. social sciences, modes of reasoning, observation and experimentation, construction and empirical testing of theories and models, and thought experiments.

2301.1.(2) Introduction to Symbolic Logic

This course introduces the fundamentals of symbolic logic. Both the propositional and predicate calculus are covered as well as various standard proof techniques.

2302.0 Ethics

An introduction to moral philosophy designed to lead the student to examine the foundations of their moral positions. To this end historical and contemporary answers by philosophers to questions such as the following will be examined: What ought I to do morally and ultimately why I ought to do it? Are ethical positions simply relative: (a) to a person? (b) to a society? What is the relation between science and morality? Why be moral?

2305.1.(2) Environmental Ethics

The nature of the ecological crisis will be examined. Philosophical responses to it will be presented which will involve analysis of the concepts of animal rights, of the intrinsic value of nature, and of obligations to future generations. A portion of the course will be spent on the application of the theoretical concepts to specific ecological issues including population and world hunger, pollution, and the sustainable society. Part of the objective of the applied section will be to raise issues of public policy within a philosophical framework.

2311.1.(2) [6611.1.(2)] Political Philosophy: The Classic Texts

A critical examination of some of the core works in the history of political philosophy, such as those of Plato, Aristotle, Augustine, Hobbes, Locke, Mill, Rousseau, Hegel, Marx, and Nietzsche.

2312.1.(2) [6612.1.(2)] Contemporary Political Philosophy

This course introduces students to the major schools of contemporary political thought, such as utilitarianism, liberal egalitarianism, libertarianism, Marxism, communitarianism, and feminism. Among the issues addressed are the justification for state power, the role of human nature in determining political arrangements, democracy and the rights of minorities, the tension between liberty and equality, and the just distribution of resources.

2318.1 (2) Science and Society

This course studies science in its social context. Contemporary and historical case studies provide a basis for examining effects of scientific and technological innovation on society, whether social values are implicated in scientific discovery and justification, and way in which social and economic institutions shape scientific practice.

2325.1.(2) Philosophical Issues in International Development**[IDST 2325.1.(2)]**

Philosophical Issues in International Development: This course will examine various philosophical issues concerning international development. Among the issues addressed will be the nature of development, how to measure development, the extent to which those who are well off have a duty to aid those in need, the limits to which it is morally acceptable to place conditions on receipt of aid, the extent to which it is appropriate for developing countries to protect their cultures from the forces of globalization.

2327.1.(2) [6627.1.(2)] Philosophy of Mind: The Classic Texts

A close study of the philosophies of mind in the work of philosophers such as Plato and Descartes. Students read the original works and then move to modern critiques of these problems.

2328.1.(2) [6628.1.(2)] Philosophy of Mind: Contemporary Issues

This course is a study of contemporary theories in the philosophy of mind. Topics include Behaviorism, Mind/Brain Identity theories, Functionalism, Cognitivism, and various theories of consciousness.

2330.1.(2) Philosophy of Religion

A philosophical examination of the nature and rationality of religious belief.

2331.1.(2) Business Ethics

An examination of the extent to which business objectives can, must, or do conflict with moral objectives, and of the extent to which business organizations can be brought into harmony with moral objectives. This will involve treatment of the relevant aspects of ethical theory.

2332.1(2) Ethics and the Law

Fidelity to the law, the distinction between moral and legal rights/duties, theories of punishment, and the legislation of morality.

2333.1(2) Philosophy of Law

Natural Law Theory, legal positivism, separability thesis, relation between law and morality, legal interpretation, the economic analysis of the law, and legal skepticism.

2345.1(2) [6645.1(2)] Greek Philosophy: The Presocratics and Plato

A brief examination of Greek philosophy before the time of Socrates followed by careful readings of selected dialogues by Plato.

2346.1(2) [6646.1(2)] Greek Philosophy: Aristotle and The Hellenists

A study of Aristotle's views (focusing on topics in metaphysics, psychology, knowledge and ethics), together with a brief examination of several Hellenistic philosophers.

2348.1(2) [6648.1(2)] Aesthetics: The Classical Tradition

This course addresses issues central to the history of philosophical aesthetics, including those of representation, expression, and the cognitive aspects of art and aesthetic experience. The course will involve a survey of some of the great works of the tradition, including those of Plato, Aristotle, Kant, Collingwood, Dewey, and others.

2349.1(2) [6649.1(2)] Aesthetics: Contemporary Debates

This course addresses issues that dominate contemporary philosophical reflection on the arts, including those of form and content, the logic of taste, aesthetic value, art and knowledge, art and emotion, and so on.

2358.1(2) Philosophy of Human Nature

Is there such a thing as a fixed and essential human nature? If so, what is it? What are we like as beings in the universe, on earth, in history? This course will consider a range of classical and contemporary responses to these questions. Included among the views that will be addressed are those of Aristotle, Hobbes, Rousseau, Darwin, Marx, and Freud, as well as existentialist, behaviorist, and feminist accounts.

2359.0 Philosophy of Education cross-listed with EDUC 2301.0**2362.1(2) Philosophy and Literature**

Works that have been discussed in recent years include: Shakespeare's *King Lear*, Marlowe's *Dr. Faustus*, Melville's *Billy Budd*, Conrad's *Lord Jim*, Walker Percy's *The Moviegoer*, Tom Stoppard's *Jumpers* and Richard Ford's *The Sportswriter*. The course may also address philosophical questions about literature. For instance, what cognitive and moral values are associated with our reading of literature? How do we explain our emotional reactions to fictional works? Why do we enjoy the experiences elicited by literary tragedy and horror?

2368.1(2) [6668.1(2)] Bioethics

Advancing medical technology has created moral issues that cannot be settled simply on the basis of medical facts. Both the medical profession and society as a whole must make value decisions before life and death issues such as abortion, euthanasia, and treatment of the insane can be settled. This course is intended to help the student reach reasoned conclusions on these issues through clarification and appraisal of arguments.

2375.1(2) Philosophy and Film

This course will deal with philosophical questions concerning, or arising in, film. These include general issues of perspective, evidence, knowledge and objectivity, as well as more specific questions, such as: What is the nature of representation in film? Can film be construed as a language? What constitutes uniqueness in film? What constitutes excellence? What is the logic of film criticism? These and other questions will be addressed in an effort to clarify the nature of the relation between philosophy and film.

2380.0 [6680.0] Philosophical Issues in Feminism [WMST 2380.0]

The course will examine the nature of the contemporary movement of feminism, and examine and evaluate arguments for and against this movement within the major traditions of political and social philosophy. To this end it will examine such basic concepts as justice, equality, freedom, rights, power and happiness, and discuss some of the practical questions raised by feminists.

3000.0[6000.0] Metaphysics

Metaphysics seeks to determine whether we can know any general truths about the world. What is it to exist? What is it to be an individual? What are the fundamental kinds of things and relations? Consideration is given to the principal metaphysical theories that form part of the Western philosophical tradition, e.g., materialism, idealism, dualism and monism. The course will also consider the major problems and concepts of metaphysics, e.g., time, space, substance, essence, free will, determinism, and causality.

3402.1(2) [6602.1(2)] Philosophy of Language

How is it that words and sentences mean what they do? One answer to this question is that linguistic meaning is determined by the speaker's intentions; another is that it is determined by social practices. Each answer raises issues regarding the relation of language to both thought and reality that this course will aim to address.

3404.1(2) [6604.1(2)] Theory of Knowledge: Foundations

This course examines the various concepts of human knowledge and attempts to find the limits of that knowledge. Traditional approaches to problems in the theory of knowledge will be considered as well as current work.

3405.1.(2) [6605.1.(2)] Theory of Knowledge: Ethics of Belief

We commonly evaluate beliefs as rational or irrational; justified or unjustified; responsible or irresponsible. But what do these terms mean and when are they correctly applied? Can beliefs be ethical? These and related questions are debated by contemporary epistemologists. This course seeks to interpret and assess the main competing views.

3413.1.(2) Intermediate Logic

Prerequisite: PHI 2301.1.(2) Introduction to Symbolic Logic
This course continues and develops the work of PHI 200.0. It offers students of all faculties opportunities for further growth in reasoning skills, in part through supervised practice in the logical appraisal of extracts from a variety of important writings. Some branches of logic are developed beyond the level of PHI 200.0. The complete predicate calculus (with identity) is applied to arguments of ordinary English. Inductive logic, and practically significant areas of logical theory, are developed considerably. Scientific method and the general methods of some other disciplines are analyzed in some depth.

3415.1.(2) [6415.1.(2)] Argumentation Theory

Prerequisite: PHI 1200.0 Critical Thinking
Contemporary argumentation theory draws upon several disciplines: philosophy of language, cognitive psychology, feminist philosophy and communications theory. This course will examine the concept of argument through the lens provided by argumentation theorists. Alternative conceptions of argument will be critically examined and an overview of the development of argumentation theory will be provided.

3442.1.(2) [6642.1.(2)] Early Modern Philosophy: The Rationalists

A critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Descartes, Malebranche, Spinoza and Leibniz are among the philosophers typically studied.

3443.1.(2) [6643.1.(2)] Early Modern Philosophy: The Empiricists

A critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Hobbes, Locke, Berkeley and Hume are among the philosophers typically studied.

3444.1.(2) [6644.1.(2)] Later Modern Philosophy: Kant

A lecture and seminar course on Kant's theory of knowledge.

3448.1.(2) [6652.1.(2)] Philosophy of Science

An introduction to the main problems of the philosophy of science designed to familiarize students with some of the contemporary analyses of scientific concepts and methods.

3454.1.(2) [6654.1.(2)] Philosophy of History

A critical study of the philosophical views on the course of human history (its pattern, purpose and value) and an examination of the aim, nature and validity of historical knowledge.

3455.1.(2) [6655.1.(2)] Existentialism: The 19th Century

A lecture and seminar course examining the 19th century origins of the existentialist movement in contemporary philosophy, with specific investigation of the writings of Kierkegaard and Nietzsche.

3456.1.(2) [6656.1.(2)] Existentialism: The 20th Century

A lecture and seminar course examining the 20th century expression of the existentialist movement in contemporary philosophy, through close study of the writings of Heidegger, Sartre, Camus, and others.

3471.1.(2) [6671.1.(2)] Meta-Ethics

The course investigates the moral concepts that are used in the formulation and evaluation of ethical theories, including: 'morality', 'moral value', 'virtue', 'vice', 'moral right', 'moral obligation', 'justice', and 'good'.

3472.1.(2) [6672.1.(2)] Foundation of Ethics

The course will involve the study of the nature of moral judgments and the logic of moral reasoning.

3479.0 [6679.0] Senior Seminar

The subject matter of the seminar is determined by consultation between instructor and students.

3491.0-3495.0; 3496.1.(2)-3499.1.(2); 6685.1.(2)-6689.1.(2); 6690.0-6695.0 Reading Courses in Philosophy

Prerequisite: One (1.0) credit in philosophy, consent of instructor, and permission of Chairperson.

The subject matter of this course will be determined by the student in consultation with the instructor.

4501.1.(2) [6601.1.(2)] Honors/Graduate Seminar

Prerequisite: Twelve (12) credit hours in philosophy, at least six (6) credit hours of which are above the 1000 level, and Majors or Honors standing in philosophy.

Participants will write and discuss research materials which are connected by a common theme. The aim will be to deepen students' knowledge of the topics studied, while developing effective research methods.

4502.1.(2) [6602.1.(2)] Honors/Graduate Seminar

Participants will write and discuss research materials which are connected by a common theme. The aim will be to deepen students' knowledge of the topics studied, while developing effective research methods.

4510.1.(2) [6510.1.(2)] Advanced Topics in Applied Ethics

This course will deal with advanced issues in applied or practical ethics. The course will focus on ethical issues in a particular domain (e.g., business, health care, the environment, international development) or on a particular ethical problem that might be faced in any of those domains (e.g., conflict of interest, racism, justice). Interested students should contact the Instructor to find out what this year's topic will be.

4514.1 (.2) Philosophy of Biology

The course explores methodological, conceptual, metaphysical, and epistemological questions that arise in modern biology. Possible topics include scientific revolutions, experimentation, biological laws, theoretical modeling, objectivity, reductionism, species concepts, evolution vs. creationism, human nature, and biological theories of gender, race, and sexuality.

4515.1 (.2) Philosophy of Physics

This course explores methodological, conceptual, metaphysical, and epistemological questions that arise in modern physics. Possible topics include scientific revolutions, experimentation, laws of nature, space, time, matter, causality, indeterminism, non-locality, thought experiments, and theoretical unification.

**4525.1(.2) [6625.1(.2)] International Justice
[IDST 4525.1(.2)/6625.1(.2)]**

This course will consider how major theories of justice such as Kantian constructivism, economic contractarianism, and utilitarianism deal with important issues in international justice such as the law of peoples, distributive justice, human rights, and democratization.

4565.0 [6665.0] Analytic Philosophy

A lecture and seminar course that examines the origins, expressions, and significance of the contemporary analytic movement in philosophy.

4599.0 Honors Thesis

Prerequisite: Honors standing in philosophy, consent of instructor, and permission of the Chairperson. Honors students have the option of completing a thesis on an approved topic. The permission of the Chairperson of the Department and the availability of a thesis supervisor are required

6697.0 Master's Thesis

This course accommodates the thesis research and writing required by the Department for any student proceeding to the Master of Arts degree in philosophy.

Political Science (POLI)

Chairperson, Assistant Professor	L. Preyra
Professor	R. Landes
Associate Professors	A. Dobrowolsky, E. Keeble, D. Naulls
Assistant Professors	M. Doucet, S. Gaon
Professor Emeritus	E. McBride

Departmental Policy for Majors

Students who intend to complete a major concentration in political science must take a minimum of forty-two credit hours in political science, including a maximum of six (6) credit hours at the 1000-level. The department recommends (but does not require) that a student take POLI 2304.0; POLI 3401.0; and courses in each of the basic subfields of the discipline: Canadian politics, comparative politics, international relations, and political thought. For students wishing to pursue graduate studies, the Department also strongly recommends at least one 4500-level seminar.

Departmental Policy for Honours

The objective of the Bachelor of Arts honours program in political science is to attract and graduate students with a demonstrated capacity to conduct original research. Students interested in pursuing postgraduate degrees are particularly encouraged to apply.

Admission Requirements

Students should officially apply for admission to the Honours program not later than December of Year 3. Forms are available from the Registrar's/Records Office. After admitting students to the Honours program, the Department, in consultation with the Honours applicants, will assign an

Honours advisor and approve the major area of concentration.

In order to be considered for admission to the political science Honours program, a student must normally have a cumulative grade point average of at least 3.33 in both political science and non-political science courses.

Students are reminded that the admission requirements mentioned above constitute a minimum.

Requirements for Continuance in and for Graduation with Honours in Political Science

Students must meet the Faculty of Arts requirements for the Honours Bachelor of Arts degree.

In order to continue in, and graduate with honours, students must achieve and maintain a yearly and cumulative grade point average of 3.33 in both political science and non-political science courses.

Honours students must complete no fewer than sixty (60) credit hours in political science, of which at least forty-eight (48) credit hours must be at the 2000-level or above. It is expected that not fewer than twenty-four (24) of these credit hours will be at or above the 3000 level.

The Political Science Department offers courses in four major subfields of the discipline: Canadian politics, comparative politics, international relations, and political thought. Honours students are required to complete at least six (6) credit hours in each of these four subfields. Honours students are required to declare one of these subfields as their major area of study.

In addition, it is strongly recommended that Honours students complete POLI 3401.0 (Scope and Methods).

Honours students must receive credit for at least six (6) credit hours political science seminar course at the 4500 level, in addition to POLI 4500.0 (Honours Essay Course).

Honours students must submit an honours essay (10,000 words) in their major area of concentration by March 15 of their Honours year. The Honours Advisor and Department must approve the Honours Essay before a degree is recommended.

An Honours student is encouraged to register for thirty (30) credit hours in the honours year.

Departmental Policy for Minors

Students who intend to take a minor in political science must complete at least twenty-four (24) credit hours in political science, including a maximum of six (6) credit hours at the 1000-level. The Department recommends (but does not require) that a student take POLI 2304.0. Additional requirements are found in the Faculty of Arts regulation 8 in Section 3 of this *Calendar*.

Note: Students may only count six (6) credit hours at the 1000-level for their major or minor requirements.

Departmental Policy for Concentration

To obtain a concentration in Political Science in partial fulfillment of the B.A. General degree [i.e., one with Double Arts Concentrations and a minimum of ninety (90) credit hours], a minimum of twenty-four (24) credit hours in POLI is required; also a minimum cumulative grade point average of 2.00. Further details are available from the chairperson/coordinator.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, POLI 1200.0 was formerly POL 200.0.

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS

NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
POL 200	POLI 1200	POL 445	POLI 2445
POL 210	POLI 1210	POL 446	POLI 3446
POL 220	POLI 1220	POL 447	POLI 3447
POL 230	POLI 1230	POL 449	POLI 3449
POL 240	POLI 1240	POL 450	POLI 2450
POL 302	POLI 3302	POL 451	POLI 3451
POL 304	POLI 2304	POL 454	POLI 3454
POL 305	POLI 2305	POL 456	POLI 3456
POL 306	POLI 2306	POL 457	POLI 3457
POL 307	POLI 2307	POL 460	POLI 3460
POL 310	POLI 2310	POL 461	POLI 3461
POL 312	POLI 2312	POL 462	POLI 3462
POL 314	POLI 2314	POL 463	POLI 3463
POL 315	POLI 2315	POL 465	POLI 3465
POL 316	POLI 2316	POL 470	POLI 3470
POL 317	POLI 3317	POL 491-492; 495-499	POLI 3491-3492; 3495-3499
POL 319	POLI 2319		
POL 321	POLI 3321		
POL 322	POLI 3322	POL 493	POLI 4493
POL 327	POLI 2327	POL 494	POLI 4494
POL 330	POLI 2330	POL 490	POLI 3490
POL 335	POLI 2335	POL 500	POLI 4500.1(2)
POL 348	POLI 2348	POL 550	POLI 4550.1(2)
POL 401	POLI 3401	POL 551	POLI 4551.1(2)
POL 402	POLI 4402	POL 552	POLI 4552.1(2)
POL 418	POLI 3418	POL 553	POLI 4553.1(2)
POL 419	POLI 3419	POL 554	POLI 4554.1(2)
POL 425	POLI 3425	POL 555	POLI 4555.1(2)
POL 440	POLI 3440		

1200.0 Introduction to Political Science

This course introduces students to various dimensions of political science. It reviews classic political concepts, theories and debates as well as examines new political challenges. Students will develop a broad and general understanding of governance, political parties, international relations and political philosophies. Students will also engage in contemporary debates on political issues and explore comparative as well as international/global concerns.

1210.1(2) Political Ideologies

An introduction to political ideologies (including liberalism, conservatism, socialism, fascism, feminism, anti-racism and green ideology) and their role in shaping modern political life. Particular attention is given to the meaning of “ideology” in general and its place in contemporary politics, as well as to the emergence of new ideologies and their relationship to social, economic and cultural forces.

1220.1(2) Political Analysis

An introduction to the theoretical approaches and techniques used in analyzing political events and claims. Emphasis is placed on critical and institutional perspectives, as well as on debates over various approaches to political analysis and to the question of the interpretation of political issues and conflicts.

1230.1(2) Law and Politics

An examination of the practical and theoretical connections between law and politics. The course will concentrate on contemporary public law issues and constitutional reform in liberal-democracies.

1240.1(2) Politics and Business

An introduction to the relationship between politics and business. This course is based on developing an understanding of the dynamics of business-government relations, with special emphasis on Canada from a comparative perspective. Special attention is given to business organization and lobbying, government regulation, and selected public policy issues and agencies.

2304.0 Canadian Politics in the 21st Century

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course introduces students to the institutions; ideas and identities which structure and shape Canadian governance in the 21st century. Political features and forces are outlined, grounded historically and considered in light of current developments. Shifting political as well as economic, social and cultural climates are examined. Throughout, fundamental representational and democratic challenges are evaluated.

2305.0 International Relations

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course is an introduction to the study of world politics. It will explore the traditional and alternative schools of thought in the field of international relations in order to provide students with the analytical tools necessary to gain a better understanding of a world in transformation.

2306.1(2) Comparative European Politics

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A study of the institutions and politics of some of the major national political systems of Europe.

2307.1(2) Provincial Government and Politics

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An analysis of the dynamics and structure of selected provincial government in Canada. Provincial political parties, voting behaviour, legislatures, bureaucracies and policy formulation constitute the core of this course. Inter-provincial and federal-provincial relations are examined.

2310.1(2) Government and the Media

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An examination of the influence of the media, and the impact of government policy, especially as set out in federal and provincial legislation, on the growth and operation of the mass media in Canada. Particular attention will be given to the continuing debate over television and radio regulation and ownership, restraints on film and the press, and issues raised by new technology.

2312.1(2) American Government

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An analysis of the American political system, its political culture, social base, constitutional order, governmental structure and policymaking processes. Special emphasis is placed on the party system, voting behaviour, and the Presidency.

2314.1(2) Politics of the Developing Areas

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An examination of political development in selected states in Asia, Africa, Latin America, or the Middle East.

2315.0 Canadian Foreign Policy

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course is an introduction to the study of Canadian foreign policy. Straddling the subfields of Canadian politics and international relations, this course provides students with tools to analyze Canada's role in the global and globalizing context.

2316.1(2) Politics in the European Union

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A study of the institutions and policy-making processes of the European Union.

2330.0 Introduction to Public Administration

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A study of the structure and operation of the administrative branch of government, both in theory and practice. Included will be an examination of the evolution of the Canadian federal public administration and public service, with some attention for comparative purposes to related experiences in other nations. The administrative responsibilities and powers of the modern state will be assessed and a sampling of recent organizational theories will be undertaken.

2335.0 History of Political Thought

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A survey of significant developments in Western political thought from the classical period of Athens to the 20th century through a focus on major Western political theorists. Key thinkers may include Socrates, Plato, Aristotle, Augustine, Machiavelli, Hobbes, Locke, Rousseau, Kant, Wollstonecraft, Marx, Goldman and Nietzsche.

2348.0 Comparative Political Behaviour

Prerequisite: six (6) credit hours in POLI at the 1000-level.

From a comparative perspective, a study of the nature of voting and electoral behaviour in Canada, the United States, Britain or selected other countries.

2445.0 Introduction to Public Policy

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A critical analysis of public policy formation, the content of public policies, and their impact upon society.

2450.1 (2) Women and Canadian Politics

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course explores various dimensions of women's participation in Canadian politics. Politics is broadly conceived and includes women's activism in and outside traditional political institutions: not only in the state, legislatures and political parties, but also in civil society (e.g., with the politics of the women's movement), and in the family. In addition, the course addresses contemporary feminist political debates and challenges. Throughout, women's multiple identities and the multi-faceted nature of women's experiences with politics are emphasized. While the primary focus is on Canadian women, other country studies may also be examined.

3302.0 Democratic Theory and Cosmopolitanism

Prerequisite: six (6) credit hours in POLI at the 1000-level or permission of instructor.

An examination of such fundamental concepts in democratic theory as 'rights', 'equality', 'liberty', 'reciprocity', 'deliberation', and 'cosmopolitanism' from the modern era to the present. Special emphasis is placed on the shift of both theoretical and practical focus: from the questions of the equality of citizens in a nation-state to that of human diversity and difference in a cosmopolitan, global arena.

3317.1(2) Charter Politics and Constitutional Change

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A comparative examination of selected sources and authorities respecting fundamental law in democratic countries. The course will provide students of constitutional law with a theoretical basis for the analysis of constitutions and relevant judicial decisions.

3321.1(2) International Organization

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course examines the concept of international organization. It will focus on the tensions between emerging forms of global governance and existing structures of inter-governmentalism. The course explores current trends and debates within organizations such as the United Nations (UN) and may examine areas such as peace and security, human rights, gender, economic development, environmental protection, and civil society.

3322.1(2) Global Political Economy

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course explores the theory and practice underlying the political forces structuring the global economy. Particular attention will be paid to interactions between the global economy and international organizations such as the World

Trade Organization (WTO), the World Bank, and the International Monetary Fund (IMF).

3401.0 Scope and Methods of Political Science

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An introduction to the concerns and methodologies of modern political science. Included will be a discussion of theories and approaches developed by the empirical school of political scientists.

3418.1(2) International Law

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A study of the features of public international law as they have developed and have been invoked in diplomatic practice, international law adjudication, and national courts.

3419.1(2) Comparative Constitutional Law

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A comparative analysis of constitutional systems, this course focuses upon the theory and exercise of judicial review, in the context of Canadian, American, European, or other constitutions. It combines lectures, readings, and the case method.

3425.0 Spying and International Politics

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An analysis of the development, role, techniques, and impact of spying on the conduct of international relations.

3440.1(2) Canadian-American Relations

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course focuses on Canadian-American relations since 1945. The course examines different theoretical approaches to the relationship, as well as a variety of case studies to analyze the nature and extent of Canada-U.S. relations both in the bilateral context and in the multilateral context.

3446.0 Political Parties and Democratic Change

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course compares the historical evolution, as well as the contemporary promises and pitfalls of political parties. The party ideal is appraised in relation to changing political and representational realities. Given growing public dissatisfaction with political parties as democratic vehicles, representational alternatives, and electoral reforms are also contemplated. Here the challenges of other political forms, such as social movements, are examined. Students are encouraged to critically evaluate, compare and contrast political parties on all of these bases.

3447.1(2) Canadian Political Parties

Prerequisite: six (6) credit hours in POLI at the 1000-level.

The purpose of this course is to identify and explain continuity or change in Canadian political party beliefs and behaviour. Particular emphasis will be placed on the ability of political parties to adapt to social change and to meet challenges posed by new social movements and interest groups.

3451.1(2) [WMST 4451.1.(2)] Gender and International Relations

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course explores theoretical and empirical issues raised by a “gender-based analysis” of international relations.

3454.1(2) Issues in Canadian Defence

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course examines Canadian defence policy and arms procurement strategies. Particular emphasis will be placed on political, economic, and technological challenges to contemporary Canadian defence policy-making.

3456.1(2) Issues in International Security

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course examines issues such as international conflict, transnational crime, environmental change and terrorism, taking such perspectives as national security, common security, cooperative security and human security.

3457.0 Politics and Government in Ireland [IRST 3457.0]

Prerequisite: six (6) credit hours in POLI at the 1000-level.

A survey of Irish history will lead to more detailed consideration of British administration in Ireland, and of government in the Republic of Ireland and in Northern Ireland.

3462.1(2) Political Ideas of the Enlightenment

Prerequisite: POLI 2335.0.

A critical examination of the political ideas and theories that grew out of the modern European Enlightenment. Special attention is paid to Immanuel Kant’s understanding of the nature, role and effects of “public reason” and to his assessment of the conditions necessary for international cooperation and peace. Other thinkers to be discussed may include John Locke, the Baron of Montesquieu, David Hume, Harriet Taylor and John Stuart Mill.

3463.1(2) Counter-Enlightenment Thought: From Rousseau to Marx

Prerequisite: POLI 2335.0

A survey and critical investigation of modern responses to liberal Enlightenment thought, from the analyses first undertaken by Jean-Jacques Rousseau and Edmund Burke, through to the crucial contributions to this tradition made by

G.W.F. Hegel and Karl Marx. Special attention is paid to the critique of individualism and to alternative ideals of community and civil society.

3465.0 Modern Theories of the State

Prerequisite: POLI 2335.0.

An examination of contemporary theories concerning the nature and role of the state and society.

3470.0 Empirical Democratic Theory

Prerequisite: six (6) credit hours in POLI at the 1000-level.

An examination of the findings and impact of modern behavioral research and their impact on the theory and practice of democratic government. Particular attention will be given to the interplay between classical democratic theory and current political science research.

3490.0 Directed Reading in Political Science

Prerequisite: permission of Department.

This course, with the department’s approval, is organized by an individual faculty member in agreement with the department as a whole, and is designed to supplement or provide an alternative to regular courses in political science, according to the special needs and interests of individual students and faculty members.

3491.1(2) – 3492.1(2); 3495.1(2) – 3499.1(2) Selected Topics in Political Science

Prerequisite: six (6) credit hours in POLI at the 1000-level.

The subject matter of particular half-credit courses will be announced from time to time by the Department. These courses will analyze specialized areas of political science not normally covered in our regular Departmental offerings.

4402.1(2) Model United Nations

Prerequisite: POLI 3321.1(2).

The objective of this course is to foster a greater understanding of the United Nations (UN) and its role within world politics. The course will revolve around the possible participation in a Model UN Conference either within Canada or abroad. Students will be given an opportunity to gain in-depth knowledge of the UN’s activities and procedures. Students will be required to engage in activities outside of the classroom. The pedagogical base of this course is experiential learning.

4449.1(2) Women and Public Policy

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course examines a number of contemporary debates and dilemmas in relation to women and public policy. The aim is to gain a better appreciation of the complexity of women’s approaches to, and experiences of, various policy areas. The course begins by unpacking the nature and effects of the state and different theories of the state and then moves to explore a range of economic, social, political and legal policy concerns.

4493.1(2) Global Social Movements

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course examines global social movements as new political forces within world politics. It will explore the main theoretical perspectives in the field of international relations that have addressed the political significance of global social movements. The course will also examine the forms of interaction between the constituents of global social movements (e.g. non-governmental organizations NGO's) and the institutions of global governance.

4494.1(2) UK Politics in Transition

Prerequisite: six (6) credit hours in POLI at the 1000-level.

This course explores current debates in the United Kingdom (England, Scotland, Wales, and Northern Ireland). It evaluates the contemporary status of longstanding political structures, processes and discourses in the UK. It questions whether traditional state forms (centralized, unitary and welfarist); institutions (the British parliament, political parties, and the constitution); ideas (left/right); and identities (class) are being challenged and changed. It also examines "new politics" initiatives in the Scottish Parliament, as well as the Welsh and Northern Ireland Assemblies.

4500.0 Honours Reading Course

Prerequisite: open to honours students in political science.

Through regular meetings with their Honours Supervisor, students will use this course to prepare an honours essay in their major area of study.

4550.0 History of Political Thought Seminar

Prerequisite: permission of instructor.

An intensive study of major trends in political thought, ancient and modern, with special attention to contemporary political doctrines and ideologies, their transformation and interrelation in the course of history and their interrelation with social and political conditions.

Jonathan Kipkeen holds an ox-horn that dates back to the 1760s. Dr. Stephen Davis and his crew of graduate students have been conducting a dig at the corner of Hollis and Salter Streets - the location of a new hotel.

4551.0 Canadian Government Seminar

Prerequisite: permission of instructor.

An analysis of selected aspects of Canadian politics and government. Topics studied may include: political culture, interest groups, political parties, voting behaviour, Parliamentarians, and bureaucracy. This seminar emphasizes student presentations and group discussions.

4552.0 Comparative Government Seminar

Prerequisite: permission of instructor.

Conceived as a work-study group, this seminar is designed for students interested in the use of the comparative method in the analysis of contemporary national political systems.

4553.0 International Studies Seminar

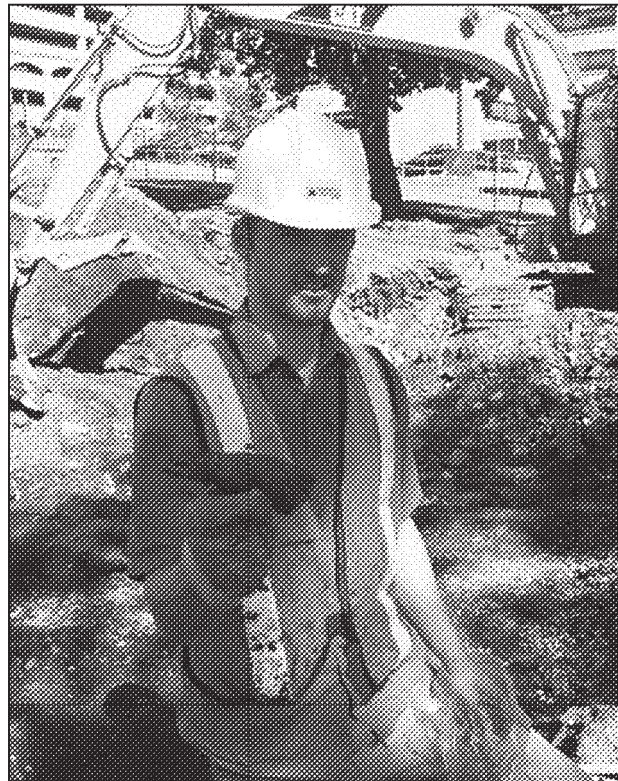
Prerequisite: permission of instructor.

A seminar on the global interaction of particular international actors and institutions, with special consideration of contemporary transnational issues, trends and developments.

4555.0 Politics and Law Seminar

Prerequisite: permission of instructor.

An advanced study of public law. This seminar will involve students in an examination of various aspects of public law, with special emphasis on the role of judges in the process of law development.



Psychology (PSYC)

Chairperson, Professor	V. Catano
Graduate Coordinator,	
Associate Professor	A. Day
Professors	K. Hill, K. Kelloway, R. Konopasky
Associate Professors	J. Cameron, A. Day, S. Smith, V. Stinson, P. Street, B. Vulcano
Assistant Professors	N. Conrad, M. Fisher, M. Fleming, L. Francis, D. Gilin, C. Holmvall, M. Patry
Adjunct Professors	J. Ivanoff, L. Methot, S. Newsome
Professors Emeriti	D. Bruce, J. Chadwick-Jones

The Psychology Department offers a broad range of courses and programs designed to meet the needs of students from a variety of backgrounds and with varying degrees of interest in psychology. The Department offers an area of concentration for the general Bachelor of Science and Bachelor of Arts degrees, a major and honours for both the Bachelor of Arts and Bachelor of Science degrees, and a program of study leading to the Master of Science degree in applied psychology and a Doctor of Philosophy in Industrial/Organizational Psychology.

The Undergraduate Program in Psychology

The psychology undergraduate curriculum consists mainly of semester courses worth three (3) credit hours which are grouped into three broad categories—Group A, Group B, and Group C. Courses in Group A are representative of psychology as a natural science and offer instruction in the areas of (1) brain and behaviour, (2) biology, evolution, and behaviour, and (3) cognition. Courses in Group B are representative of psychology as a social science and provide instruction in the areas of (1) development, (2) social behaviour, and (3) personality and psychopathology. Courses in Group C are representative of psychology in general and include PSYC 1200.1(.2), and statistics and research methods courses, among others.

Psychology at the 1000 Level

Students who wish to major in psychology should begin by selecting foundation courses from PSYC 1210.1(.2), 1220.1(.2), 1230.1(.2), 1235.1(.2), 1240.1(.2), 1250.1(.2), and 1260.1(.2). Although recommended for majors, these 1000-level courses are open to other students and count towards Faculty of Arts' regulation 3d. Students may take as many of these courses as they wish; however, they should be guided in their selection by the stated prerequisites for 2000- and 3000-level courses. Additionally, students in the Faculty of Arts should be mindful of the need to complete at least forty-eight (48) credit hours at the 2000 level or higher.

PSYC 1200.1(.2) is NOT a prerequisite for other 1000-level psychology courses and is not intended for those who plan to major in psychology. PSYC 1200.1(.2) should be taken only by those students who are choosing psychology

as an elective subject. However, Arts and Science students who have taken PSYC 1200.1(.2) and who then wish to major in psychology or to take other 1000 or higher level courses may do so without losing credit recognition for PSYC 1200.1(.2).

Psychology as an Elective Subject

Students who wish to take psychology as an elective should begin with PSYC 1200.1(.2), Introduction to Psychology, which is a broad survey of the discipline. Completion of PSYC 1200.1(.2) will permit enrolment in selected psychology courses at the 2000 and 3000 levels. 4000-level psychology courses are normally available only to those planning an area of concentration or a major in the discipline. Students who meet the prerequisites of a 4000-level course or who obtain permission of the instructor, however, may register for the course. Arts students seeking to fulfil degree requirement 3d or who wish to minor in psychology, Science students seeking to fulfil degree requirement 3e, 6e, or 7b, or who wish to minor in psychology; and Commerce students seeking to fulfil degree requirement 5c should contact the Department Chairperson for guidance in selecting courses relevant to their needs.

Psychology as a Minor Program

Students who wish to minor in psychology, from whichever faculty, must complete the following requirements: (a) at least six (6) credit hours from courses in Group A and at least six (6) credit hours from courses in Group B; (b) at least twelve (12) credit hours at the 3000 level or higher; and (c) an additional number of credit hours in Psychology to meet at least the minimum required by the students' faculty regulations. For students in the Bachelor of Arts and Commerce degree programs, the minimum number of credit hours required is twenty-four (24); in the Bachelor of Science degree program, thirty (30).

Psychology as an Area of Concentration

Bachelor of Science degree

Students taking a general Bachelor of Science degree may elect an area of concentration in psychology. The requirements are: (1) thirty (30) credit hours but not more than forty-two (42) credit hours in psychology; (2) at least six (6) credit hours from courses in Group A and six (6) credit hours from courses in Group B; (3) completion of PSYC 2340.1(.2) and 2350.1(.2); and (4) at least three (3) credit hours from 4000-level psychology courses. For students seeking a concentration in psychology, PSYC 2350.1(.2) is a prerequisite for all 4000-level psychology courses. Students seeking a concentration in psychology are required to complete PSYC 2340.1(.2) and PSYC 2350.1(.2).

Bachelor of Arts Degree

Students taking a general Bachelor of Arts degree may elect an area of concentration in psychology. In addition to meeting the requirements for a Minor program specified above, students must complete at least three (3) credit hours at the 4000-level, PSYC 2340.1(.2) and PSYC 2350.1(.2). In

addition, the Faculty of Arts requires students fulfilling a B.A. degree with Double Arts Concentration to complete a minimum of ninety (90) credit hours with at least twenty-four (24) credit hours in Psychology; as well, students must maintain a minimum cumulative grade point average of 2.00. Further details are available from the chairperson.

Psychology as a Major Program

Psychology is both a natural and a social science. Thus students may major in psychology and obtain a Bachelor of Science or a Bachelor of Arts degree. The course requirements for a psychology major are the same for both faculties: (1) a minimum of forty-two (42) credit hours in psychology; (2) at least twelve (12) credit hours from courses in Group A and twelve (12) credit hours from courses in Group B; (3) completion of PSYC 2340.1(.2) and PSYC 2350.1(.2); and (4) at least eighteen (18) credit hours from 4000-level psychology courses. For students majoring in psychology, PSYC 2350.1(.2) is a prerequisite for all 4000-level psychology courses. Students who are taking Psychology as a major must maintain a minimum cumulative quality point average of 2.00 (an average grade of C) in the courses used to meet the minimum credit hour requirements for the major (Arts Regulation 7, Science Regulation 9). Students seeking a double major in psychology and another subject must meet the requirements for a major in psychology as stated above. Students who intend to declare a major in psychology are advised to consult the Psychology Chairperson as to whether the Bachelor of Science or the Bachelor of Arts is better suited to their career goals. [Note: Students who have successfully completed MATH 207.1 (.2) may use that course to satisfy the PSYC 2340.1(.2) requirement.]

Psychology as an Honours Program

The Psychology Department offers honours study leading to a Bachelor of Arts (Honours) degree, a Bachelor of Science (Honours) degree, and a Certificate of Honours Standing (Honours Equivalency)—academic regulation 26. The honours program is intended for students of above average ability who wish to proceed to graduate work in psychology or related fields or who intend to pursue careers in psychology. For admission to honours in psychology, students at the time of application must have a minimum cumulative quality point average of 3.00 and must have completed at least eighteen (18) credit hours in psychology, including PSYC 2350.1(.2). These requirements are minimum standards only. Because the Department has limited resources for offering the honours program, some students who meet the minimum standards may have to be denied admission. The Department reviews applications for admission to honours as they are received. Applications from students who do not meet the minimum standards as outlined above at the time of application will not be processed.

The requirements for honours in psychology follow the general regulations for the Faculties of Arts and Science as stated in the *Calendar*. The course requirements are as follows: a minimum of sixty (60) credit hours in psychology, including at least twelve (12) credit hours from courses in Group A and twelve (12) credit hours from

courses in Group B. Of the minimum sixty (60) credit hours, at least thirty-six (36) must be at the 4000 level or above, including PSYC 4401.1(.2) Advanced Statistics; 4421.1(.2) History of Psychology; and PSYC 4500.1(.2) Honours Seminar. Honours students who wish to enrol in PSYC 4549.0, Honours Thesis, must first secure the consent of a member of the Department to supervise their work and then complete an Application for Directed Study form, available from the Registrar's Office. To determine a program of study that is appropriate to their future plans, honours students should consult with the Chairperson of the Department. [Note: Students who were accepted into the honours program prior to the start of the 2004-05 academic year should take PSYC 2340.1(.2) in place of PSYC 4400.1(.2).]

Co-operative Education in Psychology

The co-operative education program in psychology allows eligible students to complement their academic studies with experience in relevant work environments. The program involves the completion of a minimum of four terms of approved work experience, and generally takes one year longer to complete than the corresponding traditional degree. A "Co-operative Education" notation is added to the academic transcripts of students who successfully complete the requirements of the program in addition to their regular degree requirements.

Application to the program takes place via the Co-operative Education Office and is normally submitted after the second semester of Year 1. Admission to the program requires a minimum cumulative quality point average of 2.50 and a minimum quality point average of 3.00 in psychology courses.

Further detail concerning the requirements and regulations of the cooperative education program can be found in Section 3 of this *Calendar*, under Faculty of Science.

The Combined Major in Psychology and Certificate in Human Resource Management [Psychology Option (HRMP)]

Students who major in psychology as part of either a Bachelor of Arts or Bachelor of Science degree may also obtain a certificate in Human Resource Management by selecting an appropriate set of interdisciplinary courses. The combined program offers students a sound foundation in basic and applied topics relevant to either a career or graduate training in the field of Human Resource Management and related areas. Students who enrol in this program are required to take forty-eight (48) credit hours as follows:

- a. The following thirty (30) credit hours:-

PSYC 3327.1(.2)	MGMT 1281.1(.2)
PSYC 4425.1 (.2)	MGMT 3385.1(.2)
PSYC 4426.1(.2)	MGMT 3386.1(.2)
PSYC 4427.1(.2)	MGMT 3392.1 (.2) [PSYC 3392.1 (.2)]
PSYC 4428.1(.2)	MGMT 4485.1(.2)

b. Nine (9) credit hours from the following Psychology

Electives:-

PSYC 3309.1(.2) PSYC 4417.1(.2)

PSYC 4441.1(.2)

PSYC 3317.1(.2) PSYC 4432.1 (.2)

* PSYC 4455.1(.2)

*PSYC 4446.1 (.2) *PSYC 3399.1 (.2)

*credit hours as an elective in the HRM/PSYC certificate program is available only when the content of the course, seminar, independent study, or directed research is directly related to the field of Human Resources Management. Students should contact the Department Office to determine if any sections of these courses are recognized as HRM/PSYC electives.

c. Nine (9) credit hours from the following Business electives:-

ACCT 2241.1(.2) MGMT 3388.1(.2)

ACCT 2242.1(.2) MGMT 4481.1(.2)

CISY 1225.1 (.2) MGMT 4483.1(.2)

CMLW 2201.1(.2) MGMT 4488.1(.2)

COMM 2293.1(.2) MGMT 4493.1(.2)

COMM 3394.1(.2) MGMT 4496.1(.2)

ECON 2201.1(.2) MGMT 4497.1(.2)

ECON 1202.1(.2) MGMT 4499.1(.2)

ECON 3340.1(.2)

ECON 3341.1 (.2)

Students who enrol in this combined program are advised to consult the Department of Psychology for detailed information on a prescribed sequence of courses that will allow them to satisfy both the major and certificate requirements within their specific degree program. Further details are found in Section 4 of this Academic Calendar.

The Certificate in Human Resource Management [Psychology Option (HRP)]

Students may enrol in the certificate program in human resources management as a stand-alone program, either prior to completing or following completion of a bachelor's degree. The requirements for the stand-alone program are identical to those for the combined major and certificate program specified above. Student without previous university coursework may have to complete prerequisites that are specified for each course, in addition to the required courses. Students with previous university experience may receive up to 24 credit hours for courses that are similar to those required for the certificate.

THE GRADUATE PROGRAM IN PSYCHOLOGY

The Department offers a Master of Science degree in applied psychology with a concentration in Industrial/Organizational Psychology and a Ph.D. in Industrial/Organizational Psychology. Students are admitted with full-time or part-time status. Applicants must submit a completed application form (including a letter and personal statement, official transcripts, 3 letters of reference, and the Graduate Record Exam scores (verbal, quantitative, analytic, and psychology) to the Faculty of Graduate Studies and Research by 1 February. Any application for change in status (i.e., full-time or part-time) must be made in writing

directly to the Graduate Program Coordinator. Change in status is not guaranteed and must be approved by the Department.

There are a limited number of placements available in the program and competition for these positions is extremely high. Additional information on the program may be obtained by contacting the Psychology Graduate Program Coordinator.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence. The last three digits represent the "old" course number – for example, PSYC 1200.1(.2) was formerly PSY 200.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
PSY 200	PSYC 1200	PSY 420	PSYC 4420
PSY 210	PSYC 1210	PSY 421	PSYC 4421
PSY 220	PSYC 1220	PSY 425	PSYC 4425
PSY 230	PSYC 1230	PSY 426	PSYC 4426
PSY 235	PSYC 1235	PSY 427	PSYC 4427
PSY 240	PSYC 1240	PSY 428	PSYC 4428
PSY 250	PSYC 1250	PSY 429	PSYC 4429
PSY 260	PSYC 1260	PSY 430	PSYC 4430
PSY 307	PSYC 3307	PSY 431	PSYC 4431
PSY 309	PSYC 3309	PSY 432	PSYC 4432
PSY 316	PSYC 3316	PSY 434	PSYC 4434
PSY 317	PSYC 3317	PSY 436	PSYC 4436
PSY 320	PSYC 3320	PSY 441	PSYC 4441
PSY 327	PSYC 3327	PSY 442	PSYC 4442
PSY 329	PSYC 3329	PSY 445	PSYC 4445
PSY 332	PSYC 3332	PSY 446	PSYC 4446
PSY 335	PSYC 3335	PSY 450	PSYC 4450
PSY 336	PSYC 3336	PSY 456	PSYC 4456
PSY 340	PSYC 2340	PSY 460	PSYC 4460
PSY 347	PSYC 3347	PSY 486	PSYC 4486
PSY 348	PSYC 3348	PSY 489	PSYC 4489
PSY 349	PSYC 3349	PSY 490	PSYC 4490
PSY 350	PSYC 2350	PSY 497	PSYC 4497

PSY 355	PSYC 3355	PSY 500	PSYC 4500
PSY 360	PSYC 3360	PSY 549	PSYC 4549
PSY 386	PSYC 3386	PSY 601	PSYC 6601
PSY 389	PSYC 3389	PSY 603	PSYC 6603
PSY 399	PSYC 3399	PSY 605	PSYC 6605
PSY 401	PSYC 4401	PSY 610	PSYC 6610
PSY 407	PSYC 4407	PSY 620	PSYC 6620
PSY 408	PSYC 4408	PSY 625	PSYC 6625
PSY 409	PSYC 4409	PSY 630	PSYC 6630
PSY 410	PSYC 4410	PSY 640	PSYC 6640
PSY 413	PSYC 4413	PSY 670	PSYC 6670
PSY 414	PSYC 4414	PSY 690	PSYC 6690
PSY 417	PSYC 4417	PSY 695	PSYC 6695
PSY 418	PSYC 4418		

1200.1(2) Introduction to Psychology (Group C)

A survey of the science and application of psychology.

Note: This course is recommended for students not planning a major in psychology. It may be used to satisfy one quarter of Faculty of Arts' regulation 3d.

1210.1(2) Mind and Brain (Group A)

An overview of the biological foundations of attributes of the brain including consciousness, memory, language, and perception.

1220.1(2) Evolutionary Psychology (Group A)

An analysis of the biological events that shape human behaviour. Topics include evolution and social, sexual, and aggressive behaviour.

1230.1(2) Memory (Group A)

A review of research and theory in memory.

1235.1(2) Learning (Group A)

A review of the fundamental principles of learning and their applications to human behaviour.

1240.1(2) Human Development (Group B)

An examination of theories of human development across the life span.

1250.1(2) Social Behaviour (Group B)

An introduction to the study of social behaviour and to contemporary theory and research in the field.

1260.1(2) Personality: Normal and Abnormal (Group B)

History, concepts, models and methods in personality theory and research.

2340.1(2) Research Methods in Psychology (Group C)

Prerequisite: a minimum of six (6) credit hours at the 1000-level in PSYC.

This course familiarizes students with basic principles of experimental and correlational research design, survey design and construction, reliability, validity, qualitative methods, and research ethics.

Classes 3 hrs. and lab 1.5 hrs a week. 1 semester.

2350.1(2) Psychological Statistics (Group C)

Prerequisite: PSYC 2340.1(.2).

Statistics with interpretation for the social sciences. Topics will advance areas learned in the prerequisite course and will cover simple and two-way ANOVA, regression, and correlation.

Classes 3 hrs. and lab 1.5 hrs. a week. 1 semester.

3307.1(2) Biological Origins of Behaviour (Group A)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

An examination of the evolutionary origins of language, parent-child relationships, courtship, mating, aggression, motivation, and emotion.

3309.1(2) Human Factors and Performance (Group A)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

An examination of human performance in technological environments including the design of tools, systems, and environments.

3316.1(2) Social Cognition and Emotion (Group B)

Prerequisite: one of the following courses: PSYC 1240.1(.2), 1250.1(.2), or 1260.1(.2).

An examination of the social aspects of cognition and emotion. Topics will include attitudes and their formation, impression formation, attribution theory, social biases, decision making, and the relation of emotion to behaviour.

3317.1(2) Group Dynamics and Intergroup Relations (Group B)

Prerequisite: PSYC 1250.1(.2)

An examination of key topics in social psychology of group dynamics and intergroup relations. These include conceptualizations of groups and group behaviour, the roots and consequences of prejudice and stereotyping, theories of intergroup relations, social identity, and responses to discrimination.

3320.1(2) Psychology and Law (Group B)

Prerequisite: PSYC 1230.1(.2), PSYC 1235.1(.2), or 1250.1(.2).

A review of empirical studies of pre-sentence legal procedures, including the reliability of eyewitness testimony, the role of experts in the courts, jury selection, and subject apprehension and interview.

3327.1(.2) Industrial/Organizational Psychology (Group B)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

Introduction to methods and problems in industrial/organizational psychology. Representative topics will be drawn from the area of organizational behaviour, personnel psychology, human factors, and consumer behaviour.

3329.1(.2) Child Development (Group B)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

A survey of physical, perceptual, cognitive, and social development of the child from infancy to preadolescence.

3332.1(.2) Adolescent Development (Group B)

Prerequisite: six (6) credit hours of the following courses: PSYC 1240.1(.2), 1250.1(.2), or 1260.1(.2).

An examination of the biological, cognitive, and personal growth of adolescents. Topics include physical growth patterns, development of interpersonal relationships, cognitive growth, and theories of adolescent development.

3335.1(.2) Abnormal Psychology: History and Theory (Group B)

Prerequisite: PSY1 1260.1(.2)

A focus on the essentials of history, theories of etiology, assessments, diagnosis and method of treatment.

3336.1(.2) Abnormal Psychology: Specific Disorders (Group B)

Prerequisite: PSYC 3335.1(.2) which may be taken concurrently.

A course which focuses on the description etiology, diagnosis and treatment of specific disorders.

Note: Credit for this course will not be granted if PSYC 335.1(.2) was completed before 1 September 2003 with the exception of students who completed PSYC 335.1A in the 2002-2003 academic year. Credit for PSYC 3336.1(.2) will also not be granted if PSYC 339.2C was completed in the 2002-2003 academic year.

3338.1(.2) Introduction to Forensic Psychology (Group B)

Prerequisite: PSYC 3335.1(.2), or equivalent; 4441.1(.2) either or both taken concurrently.

A review of psychological methods, research and theory that is applied to legal system tasks; an introduction to forensic assessment, and treatment in a legal context.

3347.1(.2) Longevity and Aging (Group B)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

An overview of the neuropsychological, physiological, clinical and personological aspects of the later phases of life. Normal and abnormal patterns of aging are examined. Topics include research from neuropsychology, neuroanatomy, personality, clinical psychology, gerontology and geriatrics.

3348.1(.2) Gender Roles (Group B)

[WMST 3348.1(.2)]

Prerequisite: one of the following courses: PSYC 1200.1(.2), 1240.1(.2), 1250.1(.2), or 1260.1(.2).

An introduction to the psychological concept of gender as it relates to behavioral, emotional, and cognitive development. Theories as to the sources of gender differences and similarities will be reviewed and discussed in relation to the impact of gender roles on intimate relationships, family, work, and physical and mental health.

3349.1(.2) Drugs and Behaviour (Group A)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

Effects of psychoactive drugs on normal and abnormal behaviour and on consciousness. Explanations are in terms of brain functioning. Discussion of methods used in the study of drug effects on animals and humans.

3355.1(.2) Cognitive Psychology (Group A)

Prerequisite: one of the following courses: PSYC 1210.1(.2), 2120.1(.2), 1230.1(.2), or 1235.1(.2).

A survey of basic perceptual and cognitive processes including attention, sensation, perception, pattern recognition, learning, and memory.

3360.1(.2) Applied Sport Psychology (Group B)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

An examination of sport psychology as applied to performance enhancement, anxiety control, and psychologically healthy lifestyles. This course emphasizes the application of sport psychology to improve the quality of sport and life experiences.

3386.1(.2) Behavioral Analysis and Change (Group B)

Prerequisite: PSYC 1235.1(.2) and 2350.1(.2). [PSYC 2350.1(.2) may be taken concurrently.]

A review of the principles, procedures, and empirical and theoretical underpinnings of behaviour modification.

3389.1(2) Psychology of Personal Adjustment (Group B)

Prerequisite: PSYC 1235.1(.2), 1240.1(.2), and 1260.1(.2).

A comprehensive series of presentations covering the application of psychological concepts and principles to personal adjustment. Topics include awareness, past experiences, beliefs, critical thinking, control, values, motivation, stress, self-deception, and coping.

3392.1 (2) Occupational Health Psychology (Group B) [MGMT 3392 Occupational Health & Safety]

Prerequisites: Three credit hours in psychology at the 1000 level

This course examines current issues pertinent in occupational health psychology including workplace stress, violence in the workplace, and occupational safety. In addition to these content areas, the course will consider relevant legislation, preventive strategies, and the management of occupational health and safety issues in today's workplaces.

3399.1(2) Special Topics in Psychology (Group C)

Prerequisite: three (3) credit hours in psychology at the 1000 level.

Courses on selected psychological topics.

4401.1(2) Advanced Statistics (Group C)

Prerequisite: PSYC 2350.1(.2) with a minimum grade of B.

The application and interpretation of factorial analysis of variance, repeated measures designs, multiple regression, and various correlation techniques for the social sciences.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4407.1(2) Introduction to Ethology (Group A)

Prerequisite: PSYC 2350.1(.2) [or for non-majors, PSYC 3307.1(.2)].

Introductory study of the principles of early and modern ethology. Topics include instinct and learning, communication, navigation, and behavioral genetics.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4408.1(2) Comparative Ethology (Group A)

Prerequisite: PSYC 4407.1(.2).

Comparative examination of human and animal behaviour, courtship, territoriality, and social and parental behaviour.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4409.1(2) Brain Foundations of Human Behaviour (Group A)

Prerequisite: PSYC 1210.1(.2) and 2350.1(.2).

A review of the specialized human brain functions using the psychoanatomical approach. Emphasis will be placed on hemispheric-behavioral relations.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4410.1(2) Human Neuropsychology (Group A)

Prerequisite: PSYC 4409.1(.2).

Background to the clinical understanding of brain-behavioral relations will be provided with special emphasis on higher cortical functions. An introduction to neuropsychological testing and its role in the assessment of neurobehavioral pathology.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4413.1(2) Thinking and Reasoning (Group A)

Prerequisite: PSYC 2350.1(.2) and 3355.1(.2). Completion of 4401.1(.2) is advised.

An examination of higher-order cognitive processes including problem solving, concept formation, knowledge representation, language, reasoning, decision making, creativity and intelligence. Information-processing and connectionist models will be reviewed.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4414.1(2) Environmental Perception and Cognition (Group A)

Prerequisite: PSYC 2350.1(.2) and 3355.1(.2).

An examination of the manner in which individuals perceive, represent, and adapt to three-dimensional space, including discussions of way finding, route learning, spatial perception, and orientation.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4417.1(2) Interpersonal Relationships (Group B)

Prerequisite: PSYC 2350.1(.2) and one of the following courses: PSYC 1240.1(.2), 1250.1(.2), or 1260.1(.2).

Intensive coverage of aspects of interpersonal behaviour. Topics will include relationship development and maintenance, friendships, sibling relationships, liking and loving, social and cultural influences on interpersonal relationships, sexuality, and gender differences in interpersonal relationships, including dating behaviours and attitudes.

4418.1(2) Environmental Psychology (Group A)

Prerequisite: PSYC 2350.1(.2).

The study of behaviour in its relation to the environment. Topics include personal space, crowding, the city, architectural design, and behaviour.

4420.1(2) Disabilities (Group A)

Prerequisite: PSYC 1210.1(.20) and PSYC 2350.1(.2); and three (3) credit hours in developmental courses.

This course will examine the biological, psychological, and social impact of various types of acquired and developmental disabilities. This course is divided into three parts: (1) review genetic and environmental factors associated with developmental disabilities; (2) review of the physiological aspects of various types of acquired and developmental disabilities and the outcome; and (3) address the historical, political, ethical issues dealing with persons with disabilities in Canada.

4421.1(2) History of Psychology (Group C)

Prerequisite: twenty-four (24) credit hours in psychology including PSYC 2350.1(.2).

An examination of the origins and development of modern psychology.

4425.1(2) The Psychology of Organizational Development (Group B)

Prerequisite: At least three (3) credit hours at the 1000 level and either PSYC 3327.1(.2) or MGMT 2383.1(.2).

An examination of strategies designed to improve organizational effectiveness using behavioral science knowledge. Attention will be devoted to understanding factors that influence the success of organizational change initiatives and the process of change.

4426.1(2) Personnel Training and Development (Group B)**[MGMT 4482 Training & Development]**

Prerequisite: PSYC 1235.1(.2) and either PSYC 3327.1(.2) or MGMT 2383.1(.2)

Intensive examination of topics related to training and systematic organizational development. Emphasis is on application of psychological concepts and principles of learning in the contexts of needs assessment, curriculum development, transfer of training, and evaluation.

4427.1(2) Organizational Psychology (Group B)

Prerequisite: PSYC 3327.1(.2) and 2350.1(.2).

Extended coverage of topics in organizational behaviour with an emphasis on the application of psychological concepts to problems encountered in work environments. Topics may include the structure and climate of organizational environments, leadership, communication, motivation and decision-making.

4428.1(2) Personnel Psychology (Group B)**[MGMT 4482 Staff Selection]**

PSYC 3327.1(.2) and 2350.1(.2).

Extended coverage of topics in personnel psychology with an emphasis on the application of psychological concepts to problems encountered in work environments. Topics may

include job analysis, recruitment and selection, training and performance, performance evaluation, industrial relations, and occupational health and safety.

4429.1(2) Psychology and Religion: A Survey (Group B) [RELS 4461.1(2)]

Prerequisite: twenty-four (24) credit hours in psychology including PSYC 2350.1(.2), and one of REL 2201.0, 2220.1(.2), 2221.1(.2) or 2251.1(.2).

A survey of theory and research in the psychology of religion.

4430.1(2) Psychology and Religion: Application (Group B)**[RELS 4462.1(2)]**

Prerequisite: twenty-four (24) credit hours in PSYC and three (3) credit hours in REL.

A psychological examination of the role of religion in coping.

4431.1(2) Development and Social Context (Group B)

Prerequisite: PSYC 2350.1(.2) and one of the following courses: PSYC 3329.1(.2), 3332.1(.2), or 3347.1(.2).

The development of social relationships within the context of the family and the community.

4432.1(2) Attitudes and Persuasion (Group B)

Prerequisite: PSYC 1250.1(.2) and 2350.1(.2) and one of PSYC 3316.1(.2), 3320.1(.2), or 3327.1(.2).

This course is designed to provide students with an introduction to attitude and persuasion research. Particular attention will be given to reviewing the various theoretical perspectives that have been proposed as explanations for the psychological processes underlying persuasion.

4434.1(2) Personality (Group B)

Prerequisite: PSYC 1260.1(.2) and 2350.1(.2).

Examination of selected theories of personality through intuitive, rational, historical, and empirical methods.

4436.1(2) Counselling and Psychotherapy (Group B)

Prerequisite: PSYC 2350 and PSYC 3336.1(.2) which may be taken concurrently.

A review of the theory, method, and practice in counselling and psychotherapy.

4438.1(2) Advanced Forensic Psychology (Group B)

Prerequisite: PSYC 3336.1(.2) and 3338.1(.2).

A review of research on assessment tools, intervention effectiveness and epidemiology of criminal behaviour; the application of such research in forensic assessment, and treatment in a legal context.

4441.1.(2) Psychological Measurement (Group B)

Prerequisite: PSYC 2350.1(.2).

A review of the nature and use of psychological tests with an emphasis on norms, the interpretation of test scores, test reliability, and test validity.

4442.1.(2) Psychological Assessment (Group B)

Prerequisite: PSYC 1260.1(.2), PSYC 2350.1(.2) and 4441.1(.2).

A review of psychological tests commonly used in the assessment of intelligence, personality, and psychopathology, with an emphasis on their interpretation.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4443.1.(2) Advanced Psychology and Law (Group B)

Prerequisite: PSYC 3320.1(.2); 2340.1(.2) and 2350.1(.2).

A closer examination of the research on several topics in the area of psychology and law that may include eyewitness testimony, children in the courts, police selection and procedures, workplace harassment and discrimination, jury decision-making, and alternative dispute resolution.

4445.1.(2) Directed Research in Psychology (Group C)

Prerequisite: twenty-four (24) credit hours in psychology including PSYC 2340.1(.2) and PSYC 2350.1(.2).

Research experience for advanced students on problems in psychology. Students must secure the consent of a member of the Department to supervise their work before attempting to register for the course.

Classes and labs 6 hrs. a week. 1 semester.

4446.1.(2) Seminar in Psychology (Group C)

Prerequisite: twenty-four (24) credit hours in psychology including PSYC 2340.1(.2) and PSYC 2350.1(.2).

A seminar for advanced students on specialty areas in psychology. Extensive reading, oral presentations, and written reports or projects will ordinarily be required.

4450.1.(2) Behaviour Problems of Children (Group B)

Prerequisite: PSYC 3329.1(.2) and 2350.1(.2).

A review of emotional and behavioral problems exhibited by children, including a survey of classification systems, assessment, and treatment.

4456.1.(2) Advanced Counselling and Psychotherapy (Group B)

Prerequisite: PSYC 2350.1(.2) and PSYC 4436.1(.2).

Exposure to specific theories and related techniques through (simulated) practice in small groups. This course is designed to familiarize students with the essentials of classic theory which are not covered in PSYC 4436.1(.2). This course provides a first opportunity to experience, through

supervised classroom activity, the “skill sets” which derive from these theories.

Classes 3 hrs. a week and counselling simulations in small groups. 1 semester.

4460.1.(2) Advanced Sport Psychology (Group B)

Prerequisite: PSYC 2350.1(.2) and PSYC 3360.1(.2).

An examination of human performance in sport. This course emphasizes stress management techniques, and interpersonal and psychological skills as they relate to the pursuit of excellence in sport and life.

4486.1.(2) Behaviour Therapies (Group B)

Prerequisite: PSYC 2350.1(.2) and PSYC 3386.1(.2).

A review of behaviouristic orientations to therapy including operant, Pavlovian, Hullian, Wolpean, social learning theory, and cognitive behaviour-modification approaches.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

4489.1.(2) Positive Psychology (Group B)

Prerequisite: PSYC 2350.1(.2) and 3389.1(.2).

A comprehensive series of presentations covering the application of “positive” psychological concepts and principles to personal growth and well-being. Topics include communication, relationships, support, and authenticity.

4490.1.(2) Health Psychology (Group B)

Prerequisite: PSYC 2350.1(.2) and PSYC 4489.1(.2).

An examination of the psychological factors involved in health, illness, and treatment. Topics include health research methods, health promotion, modification of health behaviours, stress, coping, social support, and personality.

4497.1.(2) Community Psychology (Group B)

Prerequisite: PSYC 1250.1(.2) and 2350.1(.2).

A review of the theoretical and empirical foundations of community psychology. The course explores the development of psychosocial environments, methods of assessing community characteristics and their relevance to mental health, and perspectives in community development and social change. Students will be introduced to applied psychology in relation to consultation, epidemiology, and prevention methods.

4500.1.(2) Honours Seminar (Group C)

Prerequisite: at least forty-two (42) credit hours in Psychology or final year of honours program.

This is a seminar designed for honours students. It reviews the current state of theory and research in psychology and prepares honours students for study in graduate and professional programs related to psychology. Extensive reading, oral presentations, and reports or projects will be required.

Seminar.

4549.0 Honours Thesis (Group C)

Prerequisite: honours standing.

A research project in psychology that will serve as the basis for a written thesis. Honours students must secure the consent of a member of the Department to supervise their work before attempting to register for the course.

Classes and lab 6 hrs. a week. 2 semesters.

The following courses are available only to students registered in the Master of Science in Applied Psychology Program and with permission of the Chairperson of the Department of Psychology to students registered in other master's programs.

6601.0 Advanced Psychological Statistics and Research Design

Prerequisite: graduate standing.

Statistics applied to psychological research: statistical inference, hypothesis testing, analysis of variance including simple and advanced experimental designs, correlation, and an introduction to regression along with other multivariate methods. Also to be presented will be the logic of experimental and quasi-experimental methods including naturalistic approaches to hypothesis testing.

6603.1(.2) Advanced Assessment

Prerequisite: graduate standing.

A survey of classical and modern test theory including the study of the principles of psychological testing to provide a basis for technical evaluation of test materials and creation of measures for applied purposes. Topics covered include reliability and validity, generalizability, test bias, scale construction, test development, and other issues related to psychological measurement.

6605.1(.2) Personnel Psychology

Prerequisite: graduate standing.

An examination of the methods and procedures used to select, place, and evaluate personnel. Students are expected to become proficient in the design of selection systems and evaluation of job performance.

6610.1(.2) Applied Multivariate Analysis

Prerequisite: graduate standing.

This course assumes a working knowledge of the primary univariate statistical techniques, specifically point estimators, univariate inferential tests, correlation, and analysis of enumerative data. From that base, this course examines the purposes, uses, analysis and inter-relatedness of a sample of the following multivariate techniques: Hotellings T², multivariate analysis of variance and post-hoc procedures, factor analysis, discriminant analysis, and canonical correlation. Considerable use will be made of at least one of the major computerized statistical packages.

6615.1 (2) Training and Development

Prerequisites: Graduate Standing

An examination at an advanced level of topics related to training and systematic organizational development. Students are expected to become proficient in the design and evaluation of training and development systems.

6620.1(.2) Topics in Engineering Psychology

Prerequisite: graduate standing.

Selected topics related to the application of experimental psychology to the study of human factors involved in work, e.g., the description, evaluation and/or design of jobs and equipment, the psychophysiology of human performance, system development, person-machine interactions, accidents and safety.

6625.1(.2) Organizational Psychology

Prerequisite: graduate standing.

This seminar course examines theory and research in areas considered to be the domain of organizational psychology. Although topics may vary depending on faculty and student interest, core areas include work attitudes, leadership, motivation, work groups, and stress.

6630.1(.2) Contemporary Issues in Attitudes and Persuasion

This course will: (a) familiarize the student with contemporary research in attitudes and persuasion; (b) familiarize the student with how the concepts in the literature are relevant to applied settings; and applied fields of psychological research such as consumer psychology, health psychology, and industrial/organizational psychology. The course will also focus on developing within the student the ability to critically evaluate theory/research and develop original research ideas.

6640.1(.2) Field Research Methods

Prerequisite: graduate standing.

Research methods as currently applied to a variety of clinical and organizational problems. These methods consist of such special techniques as interviewing programs, their design and concentration, the analysis of interview material, questionnaire construction and administration, attitude surveys, non-participant and participant observational studies, naturalistic observations and field experiments.

6645.1 (2) Ethics and Professional Practice

Prerequisites: Graduate Standing

An introduction to the Canadian Code of Ethics for Psychologists and to the ethical decision making process. An overview of the basic business skills and knowledge necessary to practice development.

6670.1(2) Special Seminar: Topics

Prerequisite: graduate standing.

Presentation of topics not covered in the regular graduate curriculum offered according to student interest and the availability of qualified faculty. May be repeated for credit hours once.

6690.0 Practicum and Directed Readings

Prerequisite: graduate standing.

Supervised training in the application of psychological principles, techniques, and instruments, in various practical settings. Students are expected to accumulate at least 500 hours of practicum training coordinated with relevant readings.

6695.0 Thesis

Prerequisite: graduate standing.

Experimental research or field study conducted under the supervision of an advisory committee.

The following courses are available only to students registered in Saint Mary's University's doctoral program in Psychology and with permission of the Chairperson of the Department of Psychology to students registered in other programs.

7500.1(2) Doctoral Seminar in Organizational Psychology

Prerequisite: graduate standing.

This in-depth seminar course examines specific issues in Organizational Psychology, such as Organizational Development and Organizational Theory.

7600.1(2) Doctoral Seminar in Personnel Psychology

Prerequisite: graduate standing.

This in-depth seminar course examines specific issues in Personnel Psychology, such as recruitment, selection, and placement.

7800.1(2) The Development and Context of I/O Psychology

Prerequisite: graduate standing.

This course examines the history of I/O psychology and its relationship with other fields of psychology.

7900.1(2) Independent Research I

Prerequisite: graduate standing.

This first-year independent research project will involve the application of research methods, statistical methods and data analysis. It is intended to provide students with first-hand experience in conducting research from the initial idea to final publication.

7950.1(2) Independent Research II

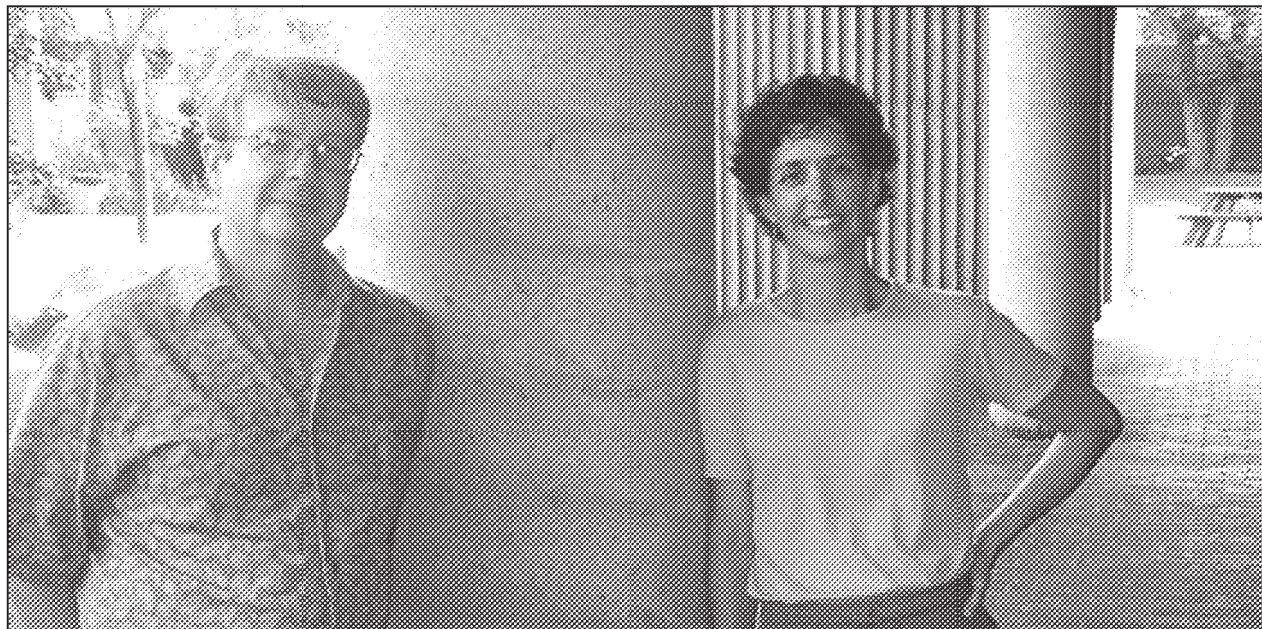
Prerequisite: graduate standing; PSYC 7900.1(2).

This second-year independent research project will involve the application of research methods, statistical methods, and data analysis. It is intended to provide students with first-hand experience in conducting research from the initial idea to final publication.

8000.1(2) Dissertation

Prerequisite: graduate standing.

Experimental research or field study conducted under the supervision of an advisor committee.



Drs. Veronica Stinson (right) and Kevin Kelloway (left) have received major support from the Social Sciences and Humanities Research Council (SSHRC) that will allow them to study the role of eyewitness memory on occupational accident investigations.

Religious Studies (RELS)

Chairperson, Professor	P. Bowlby
Professor	T. Murphy
Associate Professors	M. Abdul-Masih, A. Dalton
Assistant Professor	N. Erhard, A. Soucy
Professor Emeritus	E. Stiegman

The Religious Studies Department offers courses on the religious dimensions of human life in contemporary societies and cultures. Courses on religion and culture are offered as a way to explore various disciplines and their approaches to the study of religion or to engage in a debate around a theme structured to include both religious and non-religious views. Such courses may examine a theme comparatively in order to show the views of different religious traditions or a theme may be presented in terms of a debate between religious and non-religious understandings. Courses on the comparative study of religions include surveys of the major religious traditions of the world as well as courses which compare characteristics of religious life across several religious traditions. Examining religious diversity in Canada and around the world is also part of the study of comparative religions. By virtue of its character and history, Saint Mary's University has a special responsibility to teach courses on Christianity. The Religious Studies Department offers a number of courses on the Bible, on issues of debate within the Christian Tradition, and the formative role of Christianity in Western Culture and Tradition.

Electives

Students seeking an elective may take any Religious Studies course at the 1000, 2000, or 3000 level. Religious Studies courses at the 3000 level or above are normally for students who have completed at least forty-two (42) university credit hours. Students are advised to check specific courses at the 3000 level for prerequisites.

Degree Requirements

Religious Studies courses at the 1,000, 2,000 or 3,000 level satisfy a humanities requirement in the Arts Faculty; free electives in the Commerce Faculty and the humanities requirements in the Faculty of Science.

A Minor in Religious Studies

A minor in Religious Studies may be completed by taking twenty-four (24) credit hours in Religious Studies. Six (6) credit hours may be at the 1000 level; eighteen (18) of the credit hours must be at the 2000 level or above. An overall grade point average of 2.00 must be maintained in the twenty-four (24) credit hours. In a Religious Studies minor students must complete at least twelve (12) of the twenty-four (24) required credit hours at Saint Mary's.

B.A. Concentration Requirement in Religious Studies.

Only students in the ninety (90) credit hour B.A. may complete the concentration requirement in Religious Studies. The requirement may be completed by taking twenty-four (24) credit hours in Religious Studies. The credits toward the concentration requirement in Religious

Studies must include the following:

1. Three (3) credit hours from the courses in Group One;
2. Three (3) credit hours from the courses in Group Two;
3. Three (3) credit hours from the courses in Group Three;
4. In the four courses, six (6) credit hours may be at the 1000 level, no more than twelve (12) credit hours may be at the 2000 level, and six (6) credit hours at the 3000 level or above. Students may take one or both of Religious Studies 4480 Advanced Seminar in Religious Studies and/or 4481 Theories and Methods in the Study of Religion. Normally both of these required courses are not offered in the same academic year; rather they are offered in alternating academic years;
5. An overall grade point average of at least 2.00 must be maintained in the twenty-four (24) credit hours in Religious Studies.

A Major in Religious Studies

Students majoring in Religious Studies must fulfill the following requirements:

The equivalent of thirty-nine (39) credit hours in the Department. Normally, these will be distributed as follows:

Six (6) credit hours at the 1000 level;

Fifteen (15) credit hours at the 2000 level or above;

Twelve (12) credit hours at the 3000 level;

RELS 4480.1 (2) Advanced Seminar for Majors in Religious Studies and RELS 4481.1 (2) Theories and Methods in the Study of Religions. Normally both of these required courses are not offered in the same academic year; rather they are offered in alternating academic years;

At least six (6) credit hours from each of Group I, Group II, and Group III as described at the end of the Religious Studies course listing;

An overall minimum grade point average of 2.00 in the courses counted toward the major;

While not required for the completion of the major, the Department of Religious Studies recommends the completion of six (6) credit hours in a foreign language from among Hebrew, Greek, Latin, Chinese, Japanese, Arabic, French, Spanish or German (or an alternative acceptable to the Department).

Honors in Religious Studies

An honors student must complete sixty-three (63) credit hours in Religious Studies courses which include:

1. All of the requirements for a Religious Studies major [thirty-nine (39) credit hours];
2. An additional eighteen (18) credit hours in Religious

Studies at the 3000 level or above including three (3) credit hours from each of Group I, Group II and Group III;

3. In addition to the sixty-three (63) credit hours in Religious Studies students must complete at least six (6) credit hours in a language chosen from among: Hebrew, Greek, Latin, Chinese, Japanese, Arabic, French, Spanish and German or other language acceptable to the department;
4. Religious Studies 4000 Honors Thesis Research and 4001 Honors Thesis Writing.

Admission to an honors program normally requires Department approval no later than when a student has completed sixty (60) credit hours. In addition to the Faculty of Arts requirements for honors, a minimum grade point average of 3.00 in Religious Studies courses is required for admission to, and continuation in, the honors program.

Student Counseling

Students completing a minor, a concentration, a major and honors must have their Religious Studies courses approved by the Chairperson on an annual basis. In some instances, majors and honors students will be requested to take prerequisites for Departmental courses. Suggested prerequisites are kept on file in the Department. With renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level.

Notes:

- (i) Students may also take elective courses at the 3000 level without a prerequisite.
- (ii) With renumbered or restructured courses, students are advised that they are not eligible to take a course for credit if they already have a credit for a comparable course, even if that course was taken at a different level.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, RELS 1220.1(2) was formerly REL 220.1(2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF

COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
REL 201	RELS 1201	REL 349	RELS 3349
New Course	RELS 1210	New Course	RELS 3351
New Course	RELS 1211	REL 351	RELS 2351
REL 220	RELS 1220	REL 352	RELS 2352
REL 221	RELS 1221	REL 355	RELS 3355
REL 251	RELS 1251	New Course	RELS 3354
REL 301	RELS 3301	REL 356	RELS 3356
REL 302	RELS 3302	REL 357	RELS 3357
REL 303	RELS 3303	REL 358	RELS 3358
REL 305	RELS 2305	REL 359	RELS 3359
REL 306	RELS 2306	New Course	RELS 3360
REL 307	RELS 2307	REL 365	RELS 4365
REL 309	RELS 2309	REL 366	RELS 3366
REL 311	RELS 2311	REL 367	RELS 2367
REL 312	RELS 3312	REL 370	RELS 3370
REL 313	RELS 3313	REL 371	RELS 3371
REL 317	RELS 3317	New Course	RELS 3372
REL 319	RELS 2319	REL 375	RELS 2375
REL 323	RELS 2323	REL 376	RELS 2376
REL 325	RELS 2325	REL 377	RELS 2377
REL 326	RELS 2326	REL 378	RELS 2378
REL 327	RELS 2327	New Course	RELS 2380
REL 328	RELS 3328	New Course	RELS 3387
REL 329	RELS 2329	New Courses	RELS 3390-4
New Course	RELS 3330	REL 395	RELS 3395
REL 333	RELS 3333	New Course	RELS 4000
New Course	RELS 2330	New Course	RELS 4001
REL 334	RELS 2334	REL 461	RELS 4461
REL 336	RELS 3336	REL 462	RELS 2462
REL 337	RELS 3337	REL 480	RELS 4480
REL 338	RELS 3338	REL 481	RELS 4481
REL 340	RELS 2340	REL 485-489	RELS 4485-4489
REL 341	RELS 2341	REL 490-495	RELS 4490-4495
REL 343	RELS 2343	REL 496-497	RELS 4496-4497
REL 345	RELS 2345	REL 590-595	RELS 4590-4595
REL 347	RELS 2347		
REL 348	RELS 3348		

Introductory Courses

1210.1(2) Religious Studies

Religion as a subject of study is relatively new, starting only in the nineteenth century. This course will firstly deal with how religion became an object of study and the approaches and theories that have been used to come to grips with how religion fits into people's lives. It will also look at characteristic ways that the ultimate reality is approached and how religious life fits into contemporary culture.

1211.1 (.2) Introduction to Religious Experience

The course will introduce students to the many dimensions of the human experience of the sacred inspired by religious texts, ritual, chant and music; by mysticism, sacred places either in nature or in temples and in art of all kinds.

1220.1(.2) Introduction to Comparative Religions, I

Religious Diversity in Canada has come to include the Hindu and Buddhist traditions of South Asia and the Chinese and Japanese traditions. This course examines these religious traditions both in the context of their historical origins and their adaptations to Canadian Society.

1221.1(.2) Introduction to Comparative Religions, II

Religious Diversity in Canada includes Judaism, Christianity, and Islam. This course examines these religious traditions both in the context of their historical origins and their adaptations to Canadian Society.

1251.1(.2) Religion in Contemporary Culture

This course explores the role of religion in contemporary culture, particularly North American culture. Portrayals of religious people as well as the employment of symbols and themes from various world religions will be identified within selected pieces of contemporary art, film, literature, music, Internet, and other media. We will also consider emerging religious trends and whether certain cultural practices are functioning in a religious role.

Courses at the 2000 level do not have prerequisites and may be used by students to complete their humanities requirement or as an elective in their degree program.

2305.1(.2) Women in Christianity

[WMST 2305.1(.2)]

This course calls attention to the unconventional attitude of Jesus toward women; it studies the prominence of women in the New Testament, in contrast to early restrictions of their leadership roles. Did Christianity conform, from the beginning, to patriarchal society, betraying its own insight that in Christ “there is neither male nor female” (Galatians 3:28). Has Christian tradition legitimated male dominance? What can the cause of women’s equality hope for from Christianity?

2319.1(.2) Suffering

Is there any way to make sense of suffering? All religions speak to this fundamental human question. The questions and answers are different, however, for a religion that worships an all-powerful and all-good deity and one that does not. The course will examine religious approaches to suffering in a variety of religious traditions.

2323.1(.2) The Islamic Religious Tradition

Islam is one of the most rapidly expanding religious traditions in the world. This course will examine the origins of Islam, its fundamental teachings in the Qu’ran and in the works of some of its major teachers. In addition, the course will survey the history of Islam and contemporary developments in selected areas.

2325.1(.2) Myth and Story

The telling of stories and the recounting of myths in ritual settings are two major characteristics of religious traditions. The course will examine in translation stories and myths from a variety of literary and oral traditions and cover major theories of approach to mythic narrative. Myths and stories will be studied within the religious context of religious traditions. Major theses will be analyzed and compared across religious traditions.

2326.1(.2) The Hindu Religious Tradition

“Hinduism” is the name westerners give to the religious tradition of South Asia. The course will examine the historical development and literary monuments, such as the “Bhagavadgita”, that express the religious life of South Asian peoples.

2327.1(.2) The Buddhist Religious Tradition

The Buddhist religious tradition was founded in South Asia, and moved to China, Japan and Southeast Asia. The founding of Buddhism will be examined through the teachings concerning the life of Siddhartha. Ch’an or Zen Buddhism will provide an insight into Chinese and Japanese Buddhism.

2330.1 (.2) Spirituality and Work

Is the emerging (or re-emerging) interest in spirituality in the workplace enabling more individual fulfillment and better decision-making or is it creating new conflicts and more exclusionary workplace practices? What influences do religious traditions and worldviews have on how we work together? The increasing globalization of business and communication, the need for more qualified immigrants to Canada, and the growing diversity of people in many workplaces is forcing re-examination of inherited attitudes and expectations about work. These changes require deep understanding of what spirituality, as the deepest source of values, can mean as workplaces change and people make choices about work, vocation, or calling. This course explores the potential, the benefits and the dangers of bringing spirituality into the workplace.

2333.1(.2) Women and Religion Today

[WMST 2325.1(.2)]

Women’s groups are having an important impact on traditional forms of religious belief and practice in the world. This course will examine some of the contemporary spiritual movements influenced primarily by women. It will include women’s roles in mainline religions, such as women priests, monks, and ministers, and religiously inspired liberation movements. Radically new religious expressions, such as goddess worship and other pagan forms will also be discussed.

2334.1(.2) Christian Spirituality Today

A study of Christianity as experienced today focusing on the topics of prayer, community building toward justice and peace in the world. The focus is on spiritual texts from different aspects of the Christian tradition.

2340.1.(2) Japanese Religious Traditions

Japan's religious life has its origins in Shinto ritual and myth. Its tradition develops from the Shinto root in comparison with Daoist, Confucian and Buddhist teachings. This comparative history will be examined along with contemporary issues facing religious teachings in Japan.

2341.1.(2) Violence and Non-Violence: East and West

Religious traditions both in the east and west have proposed non-violence as a comprehensive ethical response to the problem of violence between nations, in families or among individuals. The course examines how religious traditions have diagnosed the problem of personal and collective violence; arguments for both the control and legitimate use of violence as a means to resolve disagreement; and selected major voices calling for a non-violent religious, social and political ethic.

2343.1.(2) Jewish Religious Tradition

The course examines the origin and development of the Jewish faith as it is remembered in the Hebrew Scriptures and tradition. Selected contemporary debates in Jewish faith and tradition will be studied.

2345.1.(2) Chinese Religious Traditions

This course will explore the Chinese religious landscape and explore how Buddhism, Confucianism, Daoism and "popular religion" relate to one another. A guiding question will be whether we can talk meaningfully about discrete religious traditions in China or whether it would be more appropriate to stress the unity of a single category of "Chinese Religion". Approaching the subject from an anthropological perspective, this course is as much about ghosts and lotteries as it is about Chinese philosophy.

2347.1.(2) Ecology and Religion

The course reviews the phenomenon of human ecology in order to advance to further questions: In the human relationship to nature, does nature have rights? To reduce pollution, may the rich deprive the poor of advanced technology? Is a low-consumption life-style desirable in itself? Should we leave development and progress to the experts? Such questions prepare the ground for a theology that finds religious meaning in the worldly realities of science, commerce, and government.

2351.1.(2) Love

Our culture has represented love, variously, as effecting self-fulfillment, the affirmation of another personality, union with deity, merit for a future life; or, as sex, a passing neurosis, an unreasoned self-annihilation, or a social contrivance. This course explores the assumptions and implications of these views, particularly as they involve ultimate human concerns, that is, religion. The course can be continued into RELS 352.2 where a coordinate theme is studied in a similar manner.

2352.1.(2) Death

The student considers such questions as what dying is really like, whether dying provides a valuable point of view of living, whether people continue in some form of existence after dying, how one is to understand the symbols in

religious talk about death, and why mythologies deal so heavily in death.

2366.1.(2) [466.1.(2)] Cross-listed as ANTH 2366.1.(2) Worldview: Anthropological Approaches**2367.1.(2) [467.1.(2)] Cross-listed as ANTH 2341.1.(2); also IRST 2340.1.(2) The Early Christian Church in Britain and Ireland****2375.1.(2) Cross-listed as ENGL 2328.1.(2) The Catholic Tradition in Modern Literature****2376.1.(2) Cross-listed as ENGL 2327.1.(2) The Bible and English Literature****2377.1.(2) Introduction to the Bible**

The course introduces the Hebrew Scriptures/Old Testament. Students are introduced to the text along with the cultural and historical context of the biblical literature. The course also examines the meaning and relevance of these scriptures for today.

2378.1.(2) Introduction to the Bible

The course introduces the New Testament scriptures of the Christian tradition. Students are introduced to the text along with the cultural and historical context of the biblical literature. The course examines the meaning and relevance of the New Testament today.

2380.1 (.2) Vietnamese Religious Traditions

This course explores religion in the Vietnamese context and how it relates to social issues, like the construction of a national identity, politics and gender. The course will also examine the role religion has played in the lives of overseas Vietnamese.

3303.1.(2) Christian Origins

This course treats the formation and development of Christianity as seen through the letters of Paul. It examines the origin of Pauline Churches, their separation from Judaism, their struggles, beliefs, and worship.

3306.1.(2) Cross-listed as CLAS 3352.1.(2) Women in Antiquity I**3307.1.(2) Cross-listed as CLAS 3353.1.(2) Women in Antiquity II****3311.1.(2) Jesus of Nazareth**

Jesus of Nazareth: Did Jesus really exist? What did he teach? Why was he killed? What does the resurrection mean? In examining these questions, the course will survey the many responses to Jesus' question, "Who do men say that I am?"

3312.1.(2) Theologies of Liberation

How has the life and teaching of Jesus made justice the central issue in Christianity today? What is liberation theology in the third world? Is capitalism opposed to the teaching of Jesus? What is Jesus' teaching about the poor, the oppressed, human rights and violent revolution?

3313.1.(2) Cross-listed as CLAS 3313.1.(2) Art in Late Antiquity and Europe to 14th Century**3316.1.(2) Cross-listed as ANTH 3316.1 (.2) Anthropology of Religion**

Prerequisite: any one of ANTH 1202.1(.2), RELS 1210.1(.2), 1211.1(.2), 1220.1(.2), 1221.1(.2), 1251.1(.2)

This course surveys major developments in the anthropological study of religions. The course will provide a solid theoretical foundation for the field study of contemporary religions.

3328.1.(2) The Catholic Church Today

The Catholic Church has radically changed. What does it teach today about faith, revelation, God, Jesus Christ, Sacraments, ethics, and human destiny? Students will be introduced to a brief historical development on each of these teachings.

3329.1.(2) Christianity and Contemporary Moral Issues

What do various Christian traditions say to the world today about such things as sex, power, work, community, economics, war, ecology, and reproduction? Students will explore various views in a seminar format.

3330.1 (.2) Spirituality in the Workplace

Through case studies in the literature, and guest lecturers engaging in practices that support spirituality in the workplace, students will make the connection between the theory and practical developments in real workplaces. Class seminars will explore need for spirituality in the workplace, corporate responses to that need, and the external influences shaping the future of work. Guest lecturers will contribute first hand experience of the challenges and dilemmas facing business leaders, managers and employees seeking ways to “bring their whole selves to work.” Transformative learning exercises will enable students to explore their own responses to challenges and dilemmas around spirituality in the workplace.

3336.1.(2) Creation and Evolution: The Religious Issues

The theory of evolution is a powerful tool for answering scientific questions about life in this world. The success of the scientific enterprise has led many people to seek answers to their religious questions in “evolutionary” ideas. On the other hand, the biblical account of creation is a fruitful source of insight into religious questions about why the world is as we find it. The central importance of biblical truth for Christians and Jews had led many of them to seek answers to scientific questions in the creation story. What are the relevant religious questions?

3337.1.(2) Religions and Art: The East

Art and architecture have given concrete expression to religious ideas and ideals in South Asia. The course will examine historically both Buddhist and Hindu art and architecture in association with the religious conceptions fundamental to these traditions.

3338.1.(2) Religions and Art: The West

In what ways may art be religious? Through a rapid thematic survey of the visual arts in Western civilization and an enquiry into the relationship between religious experience and the arts, the student is led to recognize various levels of religiousness in works of art.

3348.1.(2) Religion and Ecological Issues in the Developing World**[IDST 3348.1.(2)]**

This course will examine the religious and moral issues involved in contemporary debate around the implementation of environmental programs in the so-called developing nations. Population control, competing interests in natural resources, and the role of women’s groups will be among the topics discussed. Attention will be paid to the religious voices involved.

3349.1.(2) Science and Religion

In this course we will explore the relationship between science and religion. In the past this relationship was defined mainly by difference, difference in method, understanding of knowledge and language. Because of contemporary crises such as poverty and oppression worldwide and ecological crisis, religion and science are finding new reasons to cooperate. Religious issues involved in this cooperation such as women’s critique, new religious movements and environmental concerns will be examined in this course.

3351.1 (.2) Field Research on Religions

This course provides students with the appropriate tools for conducting field-based research on contemporary religions. It will involve hands-on application of the research techniques.

3354.1.(2) Aboriginal Peoples, Religion, and the Justice System

This course will focus on the elements of religious and spiritual systems that are relevant in relations between aboriginal people and the Canadian criminal justice system. It will examine the historical and political context, key religious and ethical concepts and practices of aboriginal peoples, and the movement to employ Native spirituality in shaping responses.

3355.1.(2) Religion and Social Issues in Canada

The question of the interaction of religion and society is a key issue for religion because all religion seeks to influence the behavior of its adherents. While some religious groups are content to do so by appeal to persons as individuals, many religious groups often take public stands on public policy, organize pressure groups, or even form political parties. This course will examine the influence of religion on social issues in Canada. Representative personalities and organizations from various religious traditions will be studied.

3356.1.(2) Religions in Film

Feature films and documentaries about religions and religious issues have proliferated in recent years. This course will examine a variety of topics which may include: how selected religious traditions such as Buddhism, Judaism, Hinduism, Christianity and Islam are presented in films; how films depict religious symbols and religious life, how religious and ethical issues are presented in the film narratives and documentary discussions.

3357.1.(2) Being Human: Christian Understanding

How does God relate to humans and how do humans relate to God? The course deals with this question by following the historical development of the theologies on the topic. Beginning with the Hebrew and the Christian scriptures, the course moves on to study authors such as Augustine, Aquinas, Luther and Rahner. The course will also include consideration of contemporary religious experience and questions such as the roles and images of women, the issue of religious pluralism, and the ecology issue.

3358.1.(2) Religious Diversity in Canada

Prerequisite: at least six (6) credit hours in RELS.

In recent decades, religious diversity in Canada has come to incorporate Hindus, Buddhists, Muslims, multiple denominations of Christianity and many new religious movements. This course will examine both the history of religious diversity in Canada and the impact of the Charter of Human Rights and the Multiculturalism legislation. Selected examples of how new religious traditions are adapting in Canadian Society will also be studied.

Classes and seminars 3 hrs. a week. 1 semester.

3359.1.(2) The Buddhist Path: Ritual, Meditation and Wisdom

The course will examine the characteristics of the Buddhist teachings about the path to enlightenment in the three principal schools of Buddhism: Hinayana, Mahayana, and Vajrayana. The focus of the course will be on the types of ritual, the theory and practice of meditation, and the wisdom teachings of the three traditions. Fieldwork may be a required part of the course.

3360.1.(2) Engaged Buddhism

Prerequisite: RELS 2327.1.(2) or 3359.1.(2) or permission of instructor.

This course will examine Buddhist principles and practices as they have been and are applied to social, economic and political problems around the world. Topics include Buddhist perspectives on ethical relativism and absolutism, the relationship of social change and personal transformation, community development vs. globalization, what "progress" and "best practices" mean across cultures, health and well being, environment, education, nonviolence and peace activism. Students will explore the essential roles of meditation, contemplation, critical thinking, and compassionate action individually and in small group interaction. Term paper topics will be decided on an individual basis according to students' interests.

3370.1.(2) Introduction to the Qur'an

An examination of the Qur'an as scripture. The course includes its sources, structure, style, transmission, sciences, interpretation and basic themes.

3371.1.(2) Life of Muhammad

A study of the life of Muhammad, the Prophet of Islam. The course examines his background, career as a prophet and his impact on history.

3372.1 (.2) Islamic Cultures and Civilizations

From its foundations in the Middle East or West Asia Islam has shaped and been shaped by its history and presence in Africa, Europe, and from Persia through South Asia, China and South East Asia. The course will examine the diverse contributions of Islam in the cultures of Asia, Africa, Europe and North America.

3387.1.(2) Religions & Multiculturalism

Prerequisite: forty-two (42) credit hours including RELS 1220.1.(2) and 1221.1.(2).

In Canada, United States, and Great Britain, interpreting religious diversity is frequently situated within social theories about multiculturalism and human rights. This course will examine those theories and their impact on the social location of religions and religious diversity in liberal democratic societies.

3390.1.(2)-3394.1.(2) Directed Readings in Religious Studies

Prerequisite: Declared major, concentration, or minor in Religious Studies.

Directed Reading courses permit students to pursue independent research topics which are not part of the normal curriculum. Students must apply to department faculty to enroll in a directed reading course.

3395.1.(2) – 3399.1.(2) Special Topics in Religious Studies**4000.1.(2) Honors Thesis Research**

Under the supervision of faculty in religious studies, students will develop and honors thesis topic and complete the research for an honors thesis. Normally students will present their topic and research findings in a departmental seminar.

4001.1.(2) Honors Thesis Writing

Under the supervision of faculty in religious studies, students will write an honors thesis based on the topic and research completed in RELS 4000.1.(2). Evaluation of the thesis will be by all faculty in religious studies.

4365.1 (.2) Cross-listed as ANTH 4365.1 (.2) Myth: Anthropological Approaches**4461.1.(2) Cross-listed as PSYC 4429.1.(2) Psychology and Religion: A Survey****4462.1.(2) Cross-listed as PSYC 4430.1.(2) Psychology and Religion: Application**

4480.1(2) Advanced Seminar in Religious Studies

The Advanced Seminar will examine selected themes, topics, methodologies and theories in Religious Studies. Normally a major should take this course during Year 4.

Seminar 3 hrs. a week. 1 semester.

4481.1(2) Theories and Methods in the Study of Religions

The study of religious traditions includes detailed studies of specific religions, their historical development, and cultural expressions. It includes the study of sacred texts, philosophies, theologies, rituals, sacred images and spaces, and the broad cultural significance of the religious in relation to other aspects of culture. Such multi-cultural and cross-cultural studies began in the nineteenth century and have employed diverse methodologies and theories about how best to study religions. This course will examine the history of the study of religions and review selectively the contemporary debates about the various strategies for the study of religions.

4485.1(2) – 4489.1(2) Special Topics in Religious Studies

These courses will investigate in depth a specific topic or set of topics in Religious Studies. The topic will vary from year to year.

4490.0-4495.0, 4496.1(2)-4497.1(2) Directed Readings in Religious Studies

Prerequisite: permission of Department.

These courses are organized by individual faculty members in agreement with the Department as a whole; they are designed to supplement or provide an alternative to regular courses in Religious Studies according to the special needs and interests of students. Course content can be proposed by the student.

4590.0-4595.0 Honors Seminars in Religious Studies

Prerequisite: fourth-year honors status and permission of Department.

The three general areas in which the Department offers courses are noted below, together with the courses which fall into each area. Since this is only a partial list, please consult the Chairperson for updates and further clarifications.

Group I (Religion and Culture)**Number Title**

- 1210.1(2) Religious Studies
- 1211.1(2) Introduction to Religious Experience
- 1251.1(2) Religion in Contemporary Culture
- 2330.1(2) Spirituality and Work
- 2333.1(2) Women and Religion Today
- 2347.1(2) Ecology & Religion
- 2351.1(2) Love
- 2352.1(2) Death
- 2366.1(2) Worldview: Anthropological Approaches
- 2367.1(2) The Early Christian Church in Britain and Ireland
- 3330.1(2) Spirituality in the Workplace
- 3336.1(2) Creation and Evolution: The Religious Issues

- 3348.1(2) Religion and Ecological Issues in the Developing World

- 3349.1(2) Science and Religion
- 3350.1(2) Anthropology of Religion
- 3351.1(2) Field Research on Religions
- 3354.1(2) Aboriginal Peoples, Religion and the Justice System
- 3355.1(2) Religion and Social Issues in Canada
- 3356.1(2) Religions in Film
- 4462.1(2) Psychology and Religion: Application

Group II (Comparative Religions)**Number Title**

- 1220.1(2) Introduction to Comparative Religion I
- 1221.1(2) Introduction to Comparative Religion 2
- 2323.1(2) The Islamic Religious Tradition
- 2325.1(2) Myth and Story
- 2326.1(2) The Hindu Religious Tradition
- 2327.1(2) The Buddhist Religious Tradition
- 2340.1(2) Japanese Religious Traditions
- 2341.1(2) Violence and Non-Violence: East and West
- 2343.1(2) Jewish Religious Tradition
- 2345.1(2) Chinese Religious Traditions
- 2380.1(2) Vietnamese Religious Traditions
- 3313.1(2) Art in Late Antiquity and Europe to 14th Century
- 3316.1(2) Anthropology of Religion
- 3337.1(2) Religions and Art: The East
- 3358.1(2) Religious Diversity in Canada
- 3359.1(2) The Buddhist Path: Ritual, Meditation and Wisdom
- 3360.1(2) Engaged Buddhism
- 3370.1(2) Introduction to the Qur'an
- 3371.1(2) Life of Muhammed
- 3372.1(2) Islamic Cultures and Civilizations
- 3387.1(2) Religions and Multiculturalism
- 4365.1(2) Myth: Anthropological Approaches

Group III (Christianity and Culture)**Number Title**

- 1221.1(2) Introduction to Comparative Religion 2
- 2305.1(2) Women in Christianity
- 2334.1(2) Christian Spirituality Today
- 2375.1(2) The Catholic Traditions in Modern Literature
- 2376.1(2) The Bible and English Literature
- 2377.1(2) Introduction to the Bible
- 2378.1(2) Introduction to the Bible
- 3303.1(2) Christian Origins
- 3306.1(2) Women in Antiquity I
- 3307.1(2) Women in Antiquity II
- 3311.1(2) Jesus of Nazareth
- 3312.1(2) Theologies of Liberation
- 3328.1(2) The Catholic Church Today
- 3329.1(2) Christianity and Contemporary Moral Issues
- 3338.1(2) Religions and Art: The West
- 3351.1(2) Field Research on Religions
- 3357.1(2) Being Human: Christian Understanding

Sociology and Criminology (SOC I and CRIM)

Chairperson, Associate Professor Professors	M. VanderPlaat G. Barrett, L. Christiansen- Ruffman, J. McMullan, H. Veltmeyer
Associate Professors	S. Bell, M. Byers, D. Perrier, A. Schulte- Bockholt, E. Tastsoglou
Assistant Professors	K. Bonnycastle, D. Crocker, M. Ighodaro, V. Johnson, A. MacNevin, M. Rajiva, S. Schneider, R. Westhaver,
Coordinator of Criminology: Graduate Studies Professor Emeriti	D. Crocker P. Connelly, H. Ralston
Adjunct Professors	B.B. Cottrell, L. Kowalchuk

Department Mission

The Department offers programs of study that are designed to provide students with a strong undergraduate experience in both sociology and criminology. Majors and honours programs are offered in each field. Students are particularly encouraged to complete a double major program in sociology and criminology. The Department also offers both a Master's degree and a Graduate Diploma in Criminology. Courses are also mounted that support such other academic programs as those in Asian Studies, Atlantic Canada Studies, International Development Studies, Linguistics, and Women's Studies.

Sociology (SOC I)

All students are welcome into the Department's sequence of introductory courses, SOCI 1210.1(.2) and SOC 1211.1(.2). These satisfy the prerequisites for almost all 3000-level sociology courses. Students who meet both University and Departmental requirements are invited to consider the honours program.

In any particular year or summer session, the Department has resources to offer only a portion of the courses listed in this *Academic Calendar*. It is the student's responsibility to secure an up-to-date timetable prior to registering for any sociology courses.

Introductory Courses

All students begin sociology with SOCI 1210.1(.2) followed by SOCI 1211.1(.2). SOCI 1210.1(.2) is the prerequisite for SOCI 1211.1(.2).

Students who have received credit for SOC 200.0 cannot receive additional credit(s) for any of these courses. SOC

200.0 also serves as a prerequisite to courses at the 3000 and 4000 level and to the major.

Major Program

Students are expected to decide on a major during their first course, SOCI 1210.1(.2). If students complete that course with at least a minimum grade of C, they fulfill the prerequisite requirement to enrol in SOCI 1211.1(.2), which offers an introduction to sociology as a social scientific research practice. This course will be taught in controlled enrolment sections in specific areas of faculty interest. The achievement of a minimum grade of C in this course allows students to apply for a major in sociology.

To complete a major in sociology, students must satisfy the following requirements:

- Both Introductory Sociology [1210.1(.2)] and Critical Issues in Social Analysis [1211.1(.2)] must be completed with a minimum grade of C.
 - All other courses required for the sociology major must be completed with a cumulative grade point average of at least C.
 - While acceptance as a major in sociology depends on the student's final grade in SOCI 1211.1(.2), potential majors are expected to file a "Declaration of Major" form while enrolled in the course. Once final grades have been received and processed, the Department will notify the student whether their request to major in sociology has been accepted or rejected. Those students who are accepted are responsible for seeking faculty advice.
 - Normally in the second year of a four-year program, but certainly after the completion of SOCI 1210.1(.2) and 1211.1(.2) (which are prerequisites), students must complete Classical Sociological Theory [2362.1(.2)]; Contemporary Sociological Theory [2363.1(.2)]; Research Design [2364.1(.2)]; and Data Analysis [2365.1(.2)]. Students are advised to note that SOCI 2362.1(.2) and SOCI 2364.1(.2) are also prerequisites respectively for SOCI 2363.1(.2) and 2365.1(.2).
 - Complete twelve (12) credit hours at the 3000 or 4000 level.
 - Complete the equivalent of a six (6) credit hour seminar at the 4000 level. Students are advised to check carefully as to which courses do not fulfill this requirement. These are noted in the *Academic Calendar*.
- 7. FOR STUDENTS MAJORING IN SOCIOLOGY AND CRIMINOLOGY A MAXIMUM OF ONLY TWELVE (12) CREDIT HOURS CAN BE DOUBLE COUNTED FOR CROSS-LISTED COURSES.**

Minor Program

The minor in sociology requires twenty-four (24) credit hours in sociology completed with a minimum grade point average of C. These courses are:

1. Introductory Sociology [1210.1(.2)] and either Understanding Society [1212.1(.2)] or Critical Issues in Social Analysis [1211.1(.2)].
2. The equivalent of eighteen (18) credit hours in sociology at the 3000 or 4000 level. For students majoring in sociology and criminology only twelve (12) credit hours can be double counted for cross-listed courses.

B.A. with a Concentration in Sociology

Students in a ninety (90) credit hour B.A. program with a concentration in Sociology are required to complete twenty-four (24) Sociology credit hours with a minimum grade point average of 2.00. Courses cross-listed with Criminology may not be double counted.

Honours Program

Students should obtain these detailed requirements from the Department before making application for honours. This is a selective program to which students may either apply or be invited to apply for admission after having completed at least sixty (60) credit hours. Successful completion assists students in applications to both graduate and professional schools. While the program follows general University requirements as found in Section 3 under Faculty of Arts, there are also some regulations particular to the Department of Sociology and Criminology. **To be admitted to the Honours program students must normally have achieved a minimum cumulative grade point average of at least 3.30 in Sociology courses and a minimum cumulative grade point average of at least 3.00 overall.** A student's application must be accompanied by a faculty member's written agreement to serve as a supervisor for the honours thesis, which is an integral part of the requirements of SOCI 4530.0. In exceptional circumstances, the Department may consider applicants who have not met the requirements of 3.30 (but who have a 3.00 overall). Such students are required to submit a piece of writing and a reference letter from a faculty member in the Department, and are not guaranteed a place in the program. The deadline is 1 April of the year before students wish to begin the honours program and register for SOCI 4530.0. This is a thirty (30) credit hour program. To graduate, a student must achieve and maintain a minimum grade point average of B+ (3.30) in the courses listed below.

Each honours student's program is supervised by the Department and requires the following:

1. Honours Seminar [SOCI 4530.0];
2. Advanced Research Methods [4493.1(.2)];
3. three (3) credit hours in Advanced Sociological Theory: either SOCI 4495.1(.2) or 4496.1(.2);
4. eighteen (18) additional 4000-level sociology credit hours. No more than six (6) of these eighteen (18) credit hours may be from the following: SOCI 4406.0; SOCI 4407.0; 4408.0; 4409.1(.2); and SOCI 4410.1(.2).

To continue in and graduate from the Honours program, a student must achieve and maintain a minimum grade point average of 3.30.

Note: All courses are the equivalent of three hours a week each academic year, although specific course schedules are decided by the Department.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the "old" course number – for example, SOCI 1210.1(.2) was formerly SOC 210.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
SOC 210	SOCI 1210	SOC 357	SOCI 3357
SOC 211	SOCI 1211	SOC 359	SOCI 3359
SOC 362	SOCI 2362	SOC 366	SOCI 3366
SOC 363	SOCI 2363	SOC 367	SOCI 3367
SOC 365	SOCI 2365	SOC 385	SOCI 3385
New Course	SOCI 3210	SOC 386	SOCI 3386
New Course	SOCI 3220	SOC 387	SOCI 3387
SOC 302	SOCI 3302	SOC 391	SOCI 3391
SOC 315	SOCI 3315	SOC 393	SOCI 3393
SOC 317	SOCI 3317	New Course	SOCI 4210
SOC 319	SOCI 3319	New Course	SOCI 4220
SOC 320	SOCI 3320	SOC 404	SOCI 4404
SOC 328	SOCI 3328	SOC 411	SOCI 4411
SOC 329	SOCI 3329	SOC 417	SOCI 4417
SOC 331	SOCI 3331	SOC 419	SOCI 4419
SOC 333	SOCI 3333	SOC 422	SOCI 4422
SOC 338	SOCI 3338	SOC 423	SOCI 4423
SOC 339	SOCI 3339	SOC 431	SOCI 4431
SOC 341	SOCI 3341	SOC 448	SOCI 4448
SOC 346	SOCI 3346	SOC 450	SOCI 4450
SOC 350	SOCI 3350	SOC 451	SOCI 4451
SOC 351	SOCI 3351	SOC 452	SOCI 4452
SOC 352	SOCI 3352	SOC 461	SOCI 4461
SOC 354	SOCI 3354	SOC 495	SOCI 4495

SOC 355 SOCI 3355 SOC 530 SOCI 4530
SOC 356 SOCI 3356

1210.1(2) Introductory Sociology

This course is intended to give a basic introduction to the discipline. It will examine the sociological imagination which understands human life as fundamentally explained by our membership in social groups. Particular attention will be given to the basic theories, concepts and methods through which this view is explored. This course is required for SOCI 1211.1(2).

1211.1(2) Critical Issues in Social Analysis

Prerequisite: SOCI 1210.1(2).

This course is for potential majors. It will introduce them to theory and research in an area which is a specialty of particular members of faculty. This material is intended to tie directly into the required 300-level theory and methods courses and to expose students to the practice of sociology as a scientific research activity.

2362.1(2) Classical Sociological Theory

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and SOCI 1211.1(2).

A critical examination of the major themes of social analysis in the 19th century, with particular emphasis on the classical tradition exemplified by the writings of Karl Marx, Emile Durkheim and Max Weber.

2363.1(2) Contemporary Sociological Theory

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and SOCI 1211.1(2); and SOCI 2362.1(2).

A critical examination of the major themes of social analysis in the 20th century, with particular emphasis on current theoretical issues and differences in theoretical approaches to problems in sociological analysis.

**2364.1(2) Research Design
[CRIM 2364.1(2)]**

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and 1211.1(2).

This course examines the place of research in sociology and the relationship of sociology to science. It examines concepts, measurement, research designs, and techniques of data collection. The course introduces students to a variety of approaches to research and data collection and emphasizes that methods of research are closely related to theory, the nature of research questions and design considerations.

2365.1(2) Data Analysis

Prerequisite: SOC 200.0; or SOCI 1210.1(2), 1211.1(2); and SOCI 2364.1(2).

This course, which is a sequel to SOCI 2364.1(2), covers the analysis of data and report writing. Analysis of a variety of types of data is considered, and statistics and quantitative methods are introduced. The course includes a number of exercises in analysis and report writing structured to

introduce the student progressively to the means by which sociologists draw conclusions from observations.

**3210.1 (2) Social Difference and Human Rights
[CRIM 3210.1 (2)]**

Prerequisites: SOCI 1210.1 (2) and SOCI 1211.1 (2)

This course addresses the issues of social difference and human rights by critically examining the roles played by mainstream institutions in producing and sustaining cultural dominance, exploitation and social inequalities. It will also examine alternative public policies intended to address and change socio-political domination and systemic inequities. This approach allows the experience of social difference-based discrimination to be acknowledged and, at the same time, explore ways to remedy social inequities.

**3220.1 (2) 'Race', Colonialism and Anti-Racist Discourse
[CRIM 3220.1 (2)]**

Prerequisites: Completion of the SOCI 1210.1 (2) and SOCI 1211.1 (2)

This course is designed to critically examine the theoretical understanding of 'race' and racism, colonialism, principles of anti-racism discourse and praxis. It will provide a critical interrogation of issues such as equity, social justice, human rights and domination, as they relate to 'race' and colonialism, ethnic and Diaspora politics, nation-building and membership, citizenship and identify sexual oppression and heterosexual privilege.

3302.0 Social Problems

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

Major social problems affecting Canadians will be analyzed. These range from alcohol use and sexual behaviour to poverty and mental health. The part played by interest groups and social movements in defining and reacting to these problems will be a focus of the course.

3304.0 Deviance

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

This course attempts to explain how social disrepute can be attached to acts which deviants themselves might consider to be innocent or vicious. The course will establish that the method of defining deviance is essential for considering what types of deviants exist, how they might be enumerated, what life experiences they will enjoy or suffer, and how their behaviour can be explained.

**3306.0 Sociology of Education
[EDUC 3507.0]****3308.0 Urban Sociology**

3310.1(.2) Society and the Environment

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course will be an examination of selected Nova Scotia environmental issues; acid rain, forestry/wildlife, toxic wastes, and uranium exploration and mining, from an ecological perspective. The class will address the basic question: can environmental problems be resolved within our society? Students will be expected to analyze critically the perspectives of the provincial and federal governments, industry and environmental organizations.

3311.1(.2) Population**3313.0 Sociology of Kinship and Family****3314.0 Sociology of Health and Illness**

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course investigates the social aspects of health and illness and the consequence of these notions to medical practice. Health and illness are often considered reflective of an objective biological state. In this course we will examine the social-historical forces which inform this perception and explore its connection to other topics including: the development of biomedicine, the "medicalization of behaviour," cross-cultural and historical perspectives on the experience of pain and dying, gender and health and the social meaning of illness.

3315.0 Penal Governance and Federal Imprisonment in Canada Cross-listed as CRIM 3305.0

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course introduces students to critical sociological and legal analyses of penological institutions and practices, with a primary focus on Canadian federal penitentiaries. The first half of the course sets out the major historical and contemporary transformations technologies of penal punishment. The second half examines current research on Canadian federal penal policy and practices in relation to 1) various penal subject populations and 2) available techniques of power.

3319.0 Reform and Revolution in Latin America

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course examines the conditions and social structure that underlie movements toward reform and revolution in Latin America. Major political and social trends on the continent will be explored in terms of various themes such as the role of the church, the military, United States intervention, aid and trade, land tenure and the multinational corporations. Special case studies will include revolutions in Mexico, Cuba and Nicaragua; and Chile under Allende and Pinochet.

3320.0 Women in Canadian Society

[WMST 3320.0]

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2); or six (6) credit hours in WMST.

The analysis of the social, political and cultural conditions which have shaped women's lives at different stages in Canada's history and of the ways in which women as social actors have contributed to both their own and to Canada's development. In the context of women's struggles for change, the course also considers the legacies of patriarchy, sexism and the sexual division of labour in various contemporary Canadian social and cultural institutions and examines their impact on women as well as the potential for social transformation and change. Particular emphasis will be placed on women in Atlantic Canada.

3321.0 Canadian Society**3322.0 Political Sociology**

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2); or six (6) credit hours in POLI.

Prevailing theories of radical or dissident behaviour will be assessed critically and alternate emerging approaches suggested. Protest and radical movements in Europe, Latin America and elsewhere will be considered.

3323.0 The Individual and Society**3324.0 Social Stratification****3327.0 Social Policy****3328.1(.2) Social Gerontology**

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

An overview of the manner in which society and older people interact. The course examines such topics as social participation and adjustment, economic situations, problems of the elderly, policies and services designed to assist the elderly.

3329.1(.2) The Family in Later Life

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

An examination of the relationships between the older person and the family. Topics studied include intergenerational relations, grandparent roles, marital status, sexual relationships, problems presented by dependent older people, and family support. Older women and widowhood will receive special attention. Cross-national and cross-cultural comparisons will be undertaken.

3330.1(2) Sociology of Retirement

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

The course examines various aspects of retirement from a sociological perspective. The topics covered include historical emergence of retirement, retirement policies and pension schemes, problems of individual adjustment to retirement. International comparisons will be presented.

3331.1(2) Modernization and Aging

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

An exploration of the relationships between patterns of aging and status of the elderly and societal development and modernization. Sociological perspectives and research dealing with changes in age roles, attitudes towards the elderly, family supports, services and programs for the elderly will be examined. Examples will be drawn from pre-industrial societies, as well as today's developed and developing nations.

3332.0 Sociology of Atlantic Canada**3333.0 Social Movements**

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

Analysis of the origin and development of social movements and their role in social change. The political and sociological sources of social movements will be stressed, as well as their institutional and ideological transformations. The course will have a comparative focus, with attention to Canadian social movements in this century. Social gospel, agrarian socialism, trade unionism, social credit, cooperatives, and nationalism will be examined as diverse expressions of Canadian social life.

3334.0 Cross-listed as CRIM 3315.0-3316.0 Selected Issues in Criminology**3336.1(2) Work and Occupations in Contemporary Society****3337.1(2) Leisure in Contemporary Society****3338.1(2) Language Change and Social Change [LING 2338.1(2)]**

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or declared minor in Linguistics.

This course consists of a systematic overview of historical linguistics in the context of social change. Specifically, the course covers the principles and processes of language change, and their relationship to aspects of social change, such as migration, language contact, technological change, and changing social structure. Students have the opportunity to discover elements of change in Indo-European and other languages by carrying out actual exercises.

3339.1(2) The Sociology of Language**[LING 2339.1(2)]**

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or declared minor in Linguistics.

This course provides an introduction to the major areas of the sociology of language. Special attention is paid to language and social relations in Canada, particularly to the present-day situation. Standard topics in the sociology of language are treated, including language and social interaction; the use of language by social classes, men and women, ethnic groups and regions; dialects and social groups, bilingualism and multilingualism; language and nationalism; language maintenance and language shift; and language planning.

3340.0 Ethnic and Minority Groups

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or six (6) credit hours in ANTH.

An analysis of racial, ethnic, and minority group structure and of inter-group processes in different societies, with special emphasis given to Canadian society.

3341.1(2) Women and the Media**[WMST 3341.1(2)]**

Prerequisite: SOCI 1210.1(2) and 1211.1(2)

Women and the media is a course intended to broaden student understanding on how gender is constructed within various mass media, and to encourage critical thinking about the many categories of 'woman' at play in the mass media. These images are socially constructed and give us a vast amount of information about the positions women occupy in society. This course focuses on how the media influences our perception of individuals and groups on the basis of gender, as well as at the point where gender intersects with race, class, sexuality, and generation.

3342.1(2) Social Interaction**3343.1(2) Society as Drama****3344.0 Asylums, Prisons, and Other Total Institutions****3345.1(2) Cross-listed as CRIM 3320.1(2) Women, Law and The State****3346.1(2) Crime and the Media**

Prerequisite: SOCI 1210.1(2) and 1211.1(2).

The focus of this course is on the depiction of crime in various media of mass communication. Area of study includes corporate crime, violent crime, gangs, organized crime and terrorism. This course also examines how gender, race and class are related to the way crime is depicted in the mass media.

3350.1(2)-3351.1(2) Contemporary Issues in Sociology

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

The course will provide an opportunity for students to study contemporary substantive issues in considerable depth and detail.

3352.1(2) The Mass Media

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

This course is intended to lay the foundation for critical inquiry in the area of media and mass communication. The objectives of this course are a) to examine the mediums of mass communication in both a Canadian and global context, and b) to study the products of these mediums critically in order to understand how they are used to define cultures and individuals. Of particular interest to this course is the examination of how differences in individuals (such as ethnicity, class, gender and sexuality) are both produced by and dealt with in the mass media.

3353.1(2) Industry and Labour in Contemporary Society**3354.0 Cross-listed as CRIM 3307.0 Policing and Society****3355.1(2) Cross-listed as CRIM 3308.1(2) Corporate Crime****3356.1(2) Cross-listed as CRIM 3309.1(2) Victimology****3357.1(2) Cross-listed as CRIM 3310.1(2) Criminal Law****3358.1(2) Cross-listed as CRIM 3311.1(2) Culture and Crime****3359.0 Cross-listed as CRIM 3312.0 Young Offenders and Juvenile Justice****3366.1(2) Field Methods in Sociolinguistics I [LING 3366.1(2)]**

Prerequisite: six (6) credit hours in SOCI or LING; or permission of instructor.

An introduction to techniques of collecting sociolinguistics data in the field. The course focuses on the kinds of linguistic and social information needed to describe languages and their variation and use.

3367.1(2) Field Methods in Sociolinguistics II [LING 3367.1(2)]

Prerequisite: SOCI 3366.1(2); or equivalent course, e.g. LING 2310.1(2).

A continuation of SOCI 3366.1(2). Students gain experience in the actual collection of data on a language.

3371.1(2) Evaluating Social Programs**3372.1(2) Social Impact Analysis****3381.0-3382.0 Cross-listed as CRIM 3315.0-3316.0 Selected Issues in Criminology****3385.1(2) Problems of Development [IDST 4485.1(2)]**

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or a course in ECON or POLI.

This course will provide an introduction into concepts and theories of development and underdevelopment with particular reference to problems of Third World societies. The main emphasis will be on the various theories advanced in explanation of the historical development of less developed societies and their position in a growing global economy. The major lines of research associated with these theories will also be reviewed.

3386.1(2) Sociology of Developing Societies [IDST 3386.1(2)]

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or six (6) credit hours in ECON or POLI.

This course examines the conditions of economic and social development in the Third World. The role of colonial empires in the creation of these conditions and of the world system in maintaining them will be scrutinized. Problems discussed will include trade relations, foreign aid, land distribution, industrialization, class structures, the role of the estate, and the position of women. Illustrative case studies on these problems will range across different countries in the Third World (Africa, Latin America and Asia).

3387.1(2) Women and Development [WMST 3387.1(2)]

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2); or IDST 3301.0.

This course will examine the role of women in development. It will examine the changing structure of the division of labour by gender in different international, regional and community contexts, and the interaction between the economics and politics of class and gender in different societies at different levels of development. This course will also address issues such as: the incorporation of subsistence economies into modern market economies; the establishment of labour-intensive multinational industries, particularly those drawing on female labour; the relationship between the household and the formal and informal economies and patterns of female migration; and the role of women in the transition from rural to urban/industrial worlds.

3388.1(2)-3389.1(2) Selected Issues in Criminology [CRIM 3313.1(2)-3314.1(2)]

Prerequisite: SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or 1212.1(2).

These courses are designed to enable a student to examine a particular criminological issue in detail.

3390.1(.2) Gender, Race and Justice**[CRIM 3306.1(.2)]**

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course is concerned with the relevance of race and gender to contemporary justice issues and the administration of the criminal justice system.

3391.0 Rural Sociology

Prerequisite: SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or 1212.1(.2).

This course explores a variety of themes and theoretical perspectives in Rural Sociology. Using the contrasting concepts of 'community' and 'locality' as focal points, the first part of the course examines key sociological concepts such as cohesion, exclusion, identity, gender, class and power. The second part of the course explores the context within which rural communities struggle for survival. Issues such as globalization, decentralization and modernity are considered. The final theme of the course is rural renewal. Case material on cooperativism, the role of non-governmental organizations, watershed stewardship and community organization are examined.

3392.1(.2) Cross-listed as CRIM 3321.1(.2) Critical Issues in Policing**3393.1(.2) Cross-listed as CRIM 3322.1(.2) Woman Battery and the Criminal Justice System****4210.1 (.2) Forced Migration and Transnationalism**

Prerequisites: SOCI 2363.1 (.2); or SOCI 3351.1 (.2)

This course is designed to critically examine the historical and contemporary understanding of forced migration and transnationalism, displacement, migration (voluntary and involuntary), refugee issues, and transnational social spaces, as well as issues of citizenship and ethnic identity. It will also examine colonialism and cultural hegemony as it pertains to Euro/North American political relations with Africa and other nations in the south.

4220.1 (.2) Power, Equity and Global Issues

Prerequisites: SOCI 2363.1 (.2); or SOCI 3351.1 (.2)

This course is designed to examine power, equity, and global issues through a critical anti-racist lens. A critical anti-racist discursive framework/praxis demands unequivocal democratic citizenship rights, qualitative social justice, and respect for human rights and freedoms promised by the International Human Rights Laws and Conventions. It addresses questions such as: What is power? Is it the domination of individuals, socio-racial groupings, geographical locations, and societies at large? How does power manifest itself in a global context?

4404.1(.2) Cross-listed as CRIM 4402.1(.2) Issues in Juvenile Justice**4405.0 Sociology of Labour****4406.0 Directed Reading in Sociology**

Prerequisite: honours standing.

This course provides an opportunity for honours students to read in depth in an area of sociology not normally covered by regular Departmental course offerings. Students are expected to demonstrate initiative and independence.

Note: This course does not constitute a 4000-level seminar in fulfillment of requirement (c) for majors.

4407.0-4408.0 and 4409.1(.2)-4410.1(.2) Directed Readings in Sociology**[WMST 4407.0-4408.0 and 4409.1(.2)-4410.1(.2)]**

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

These courses provide an opportunity for students to read in depth in an area of sociology not normally covered by regular Departmental course offerings. Students are expected to demonstrate some initiative and independence.

Note: These courses do not constitute a 4000-level seminar in fulfillment of requirement (c) for majors.

4411.1(.2) Cross-listed as CRIM 4414.1(.2) The Politics of Youth Crime**4412.0 Sociological Perspectives on Aging**

Prerequisite: SOCI 3328.1(.2), 2363.1(.2) and 2365.1(.2).

This seminar course is designed as an in-depth study of theoretical and methodological issues in sociological studies of aging. Major sociological perspectives and theories in aging are explored. Research applications of the theories in selected substantive subject areas are also presented.

4413.0 Sociology of Identity

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

This is a seminar which will explore methodological, theoretical and substantive issues in a sociological approach to social identities. In particular, we shall examine some of the ways in which the form and character of the link between persons and social institutions has been understood in order to enhance our own appreciation of this fundamental problem in the social sciences.

4414.0 Sociology of Knowledge and Science**4417.0 Seminar on Endangered Languages (LING 4417.0)**

Prerequisite: at least sixty (60) credit hours.

The existence of many of the world's 6,000 languages is threatened and most will probably not survive the next century. In this seminar, students explore the social forces affecting language maintenance. Language growth, decline and death are considered in the global context of linguistic diversity.

4418.1(2) Media, City and Space

Prerequisite: SOCI 3351.1(.2) and/or 3352.1(.2).

This course is intended for senior students who have already taken courses in media studies and wish to continue this work at a higher level. The course focuses on the relationship between the mass media and how we understand and come to know the spaces and places we inhabit.

Seminar: 3 hrs. a week. 1 semester.

4419.0 Sociology of the Environment

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2); or ENV 3300.1(.2) or a declared major in IDST.

This course provides a critical examination of sustainable development. Following an introduction to ecology and human ecology, a variety of sociological perspectives on the environment are explored: neo-Malthusianism, market-led approaches, political ecology, ecofeminism and social constructionism. The second part of the course focuses on a variety of 'sources' and 'sinks'. We explore societal causes of environmental problems and the prospects for sustainable solutions. Topics will include aquatic resources, forests and wetlands, land and agriculture, water, energy, air pollution and toxicity.

4420.0 Comparative Regional Development**4422.1(2) Gender and Development: Theory and Method [IDST 4422.1(2)/6622.1(2); WMST 4422.1(2)]**

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

This seminar will examine the role of women and development in the Third World. It will discuss the interrelationship of various development and feminist theories; methodological approaches to the study of women and development will also be examined. This course will provide students with a conceptual overview and practical tools for understanding the problems faced by women in developing countries.

4423.1(2) Gender and Development: Policy and Practice [IDST 4423.1(2)/6623.1(2); WMST 4423.1(2)]

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

This seminar will examine case studies of the role of women in the development process in various Third World countries. It will provide an analysis of the gender dimensions of programs and policies that affect women in different international, regional and community contexts. Case studies will focus on a number of specific issues such as work, education, health and empowerment. These will vary from year to year.

4425.0 Corporate Power

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

The course will focus on the social dynamics of globalization – a trend towards worldwide reach, impact, or connectedness of social phenomena. The issues addressed are diverse but will include questions about the social agencies of globalization, such as the transnational corporation, and the structural forces involved. The global dynamics of such institutions, as well as their social impacts will be explored from a Political Economy perspective.

4430.0 The Sociology of Alcohol Use

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

This course is a seminar on the beverage use of alcohol in North America, the accompanying social problems, and society's efforts to solve these problems. Students investigate alcohol use from a variety of theoretical perspectives and are exposed to several major methods of research. Particular topics studied include taverns, the temperance movement, and drinking by youth, vagrants and ethnic groups. Students also do an original research paper on some topic related to alcohol use.

4431.0 Law in Society

[CRIM 4400.0]

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2) or completion of the core requirements in criminology.

An in-depth study of the relationship between law and society. This seminar will examine law as a product of a social system and as an instrument of social change. Emphasis will also be placed on the social forces affecting judicial behaviour and the determinants and purposes of legislation as the link between values and interests. Attention will also be direct to law as a profession, and jurisprudence as an evolving discipline with special emphasis on issues in the administration of justice.

4432.1(2) Gender and Law

[CRIM 4401.1(2) and WMST 4432.1(2)]

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2) or completion of the core requirements in criminology.

By providing an examination of the gendered nature of conventional understandings of law, social control and deviance, this seminar will identify and challenge the ideology of sameness that has pervaded male-stream legal theory. It will also consider the implication of these gendered assumptions for the reproduction of inequality. Specific issues concerning the impact of law on women's lives will be explored in order to illustrate the relation between law, gender and power.

4440.0; 4441.0; 4442.1(.2)-4444.1(.2) Selected Studies in Sociological Analysis

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

An upper level seminar which examines selected methods of analysis in sociology. The specific methods and the range of problems to which they are applied will vary with the instructor's areas of specialized interest and expertise.

4447.1(.2) Work and the Empowerment of Women in India

[WMST 4447.1(.2)]

4448.0 Feminist Analysis

[WMST 4448.0]

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

This seminar focuses on problems of studying women, including sex bias in research. It analyzes contemporary experiences using theories and methodologies of feminist sociology, global feminism, and women's studies.

4450.0; 4451.1(.2); 4452.1(.2) Selected Topic

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

A seminar course which examines questions within an area of specialization and enables a student to study a particular sociological issue in detail.

4453.0 Citizen Participation in Community Planning**4461.1(.2) Survey Analysis**

Prerequisite: SOCI 2364.1(.2) and either 2365.1(.2) or CRIM 2302.1(.2).

The seminar is designed to introduce students to the analysis of survey data and to the use of SPSS computer programs. Topics covered include editing and coding of survey data, univariate analysis including such procedures as graphic presentation of data, measures of central tendency and variability, normal distribution, bivariate table, and scale construction.

4462.1(.2) Quantitative Methodology

Prerequisite: SOCI 4461.1(.2).

Advanced level seminar in analysis of quantitative data in sociology. Topics covered include: the concept of association between variables, measures of association, multivariate analyses, regression techniques, inferential statistics and the research report.

4468.1(.2) Women's Organizations and Change

[WMST 4468.1(.2)]

4480.0 Ethnicity and the Canadian State**4481.0 Gender, Ethnicity and Migration**

[WMST 4481.0]

4482.1(.2) Gender and International Migration

[WMST 4482.1(.2)]

Prerequisite: completion of the Criminology core program requirements or SOCI 2363.1(.2) and 2365.1(.2).

This is a course on the theory and practice of international migration taking an explicitly gendered perspective. It discusses the conceptual and theoretical frameworks on migration and gender and migration; the history of selected migration movements with a focus on the role of women; women in the migratory process, employment and family issues; the impact/consequences of international migration on development; contemporary migration policies; forced migration and refugee issues; gender and trans-nationalism.

4493.1(.2) [593.1(.2)] Advanced Research Methods

Prerequisite: SOCI 2364.1(.2) and either 2365.1(.2) or CRIM 2302.1(.2).

This course will examine a range of quantitative and qualitative research methods in areas, which reflect the interests of students and faculty. The course will explore strengths and weaknesses of different approaches, and the appropriate selection and application of various data collection and analytical techniques. Topics covered may include survey research, interview techniques, field research, historical and documentary analysis.

4495.1(.2)-4496.1(.2) [4595.1(.2)-4596.1(.2)] Advanced Sociological Theory

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2).

Presentation of various topics of interest to advanced students. From time to time, depending on student interest and faculty availability, this course will consider particular theorists and such matters as constructing social theories, traditions of theoretical writing, and new directions and problems in the field.

4509.1(.2) Directed Reading: Advanced Studies in Sociology

Prerequisite: one of SOCI 4407.0 to 4410.1(.2) and permission of instructor.

This course allows students to pursue a sub-area of sociology in considerable depth. Students are expected to demonstrate considerable initiative and independence.

Note: This course does not constitute a 4000-level seminar in fulfillment of requirement (c) for majors.

4530.0 Honours Seminar

(CRIM 4500.0)

Prerequisite: enrolment in honours program.

The purpose of this seminar is to aid students in the preparation of an honours thesis on a topic agreeable to both the student and the faculty. The thesis should be approximately 10,000 words of text and should demonstrate an integration of theoretical, analytical and methodological skills appropriate to a degree at the honours level. It is expected that there will be an empirical component to the thesis.

Criminology (CRIM)

The purpose of a Bachelor of Arts degree in criminology, including the honours program, is to provide students with an opportunity for focused study in an area relating to criminal behaviour and society's subsequent reaction to it. The development of a coherent program at the undergraduate level enables students to obtain a solid foundation in criminology for possible careers in the criminal justice system; for further study at the graduate level; and for the pursuit of criminology-related disciplines. Students learn about crime, criminality, law and justice through the study of criminological thought, debates and issues. A structured honours program is included for its outstanding undergraduate students.

B.A. with a Concentration in Criminology

Students in a ninety (90) credit hour B.A. program with a concentration in CRIM are required to complete twenty-four (24) CRIM credit hours with a minimum grade point average of 2.00. Courses cross-listed with Sociology may not be double counted.

Major Program

For admission to the program, students must have completed SOCI 1210.1(.2) and 1211.1(.2) with a minimum grade of C in each course; and six (6) additional credit hours with a minimum grade of C in each course from the following courses: ANTH 1200.0; ANTH 1202.1(.2), ANTH 1280.1(.2), ECON 1201.1(.2); ECON 1202.1(.2); HIST1240.0; POLI 1200.0; POLI 1230.1(.2); PSYC 1200.1(.2); PSYC 1250.1(.2); or PSYC 1260.1(.2).

To major in criminology, students must complete forty-two (42) credit hours including:

- a. eighteen (18) credit hours from core courses;
Note: Core courses should be taken in the first year that a student begins the major program.
- b. twelve (12) credit hours from Group A elective courses;
- c. six (6) credit hours from Group B elective courses; and
Note: 4000 level (Group B) elective courses should be taken in the fourth year of the major program.
- d. six (6) credit hours from Group C cognate courses.

Because of the significant interest in Criminology, the number of qualified students permitted to declare Criminology as their major or subject of honours may have to be limited.

1. Core Program Courses [eighteen (18) credit hours]

Note: To register for each of these core courses, students must already be a declared major in Criminology.

CRIM 2300.1(.2) Classical Criminological Theory
CRIM 2301.1(.2) Contemporary Criminological Theory
CRIM 2302.1(.2) Criminal Statistics
CRIM 2303.1(.2) Crime and Society
CRIM 2304.1(.2) Canadian Criminal Justice System
CRIM 2364.1(.2)/SOCI 2364.1(.2) Research Methods

2. Group A – Elective Courses [twelve (12) credit hours]

Complete twelve (12) credit hours in CRIM at the 3000 level.

3. Group B – Elective Courses [six (6) credit hours]

Complete six (6) credit hours in CRIM at the 4000 level or PSYC 3320.1(.2); PSYC 3335.1(.2); PHIL 3332.1(.2) and PHIL 3333.1(.2).

4. Group C – Cognate Courses [six (6) credit hours]

The equivalent of six (6) credit hours at the 3000 or 4000 level not listed as part of the Criminology major (i.e. core courses, Group A or Group B) in one of the following social sciences: anthropology, economics, geography, political science, psychology and sociology.

FOR STUDENTS MAJORING IN SOCIOLOGY AND CRIMINOLOGY ONLY TWELVE (12) CREDIT HOURS CAN BE DOUBLE COUNTED FOR CROSS-LISTED COURSES.

Honours Program

This is a selective program to which students may either apply or be invited to apply for admission after having completed at least sixty (60) credit hours. Successful completion assists students in applications to both graduate and professional schools. While the program follows general University requirements as found in Section 3 under Faculty of Arts, there are also some regulations particular to the Department of Sociology and Criminology. Students should obtain these detailed requirements from the Department before making application for honours. To be admitted, students must normally have achieved a minimum cumulative grade point average of 3.30 in Criminology courses and a cumulative grade point average of 3.00 overall. A student's application must be accompanied by a faculty member's written agreement to serve as a supervisor for the honours thesis, which is an integral part of the requirements of CRIM 4500.0. In exceptional circumstances, the Department may consider applicants who have not met the requirements of 3.30 (but who have a 3.00 overall). Such students are required to submit a piece of writing and a reference letter from a faculty member in the Department, and are not guaranteed a place in the program. The deadline is 1 April of the year before students wish to begin the honours program and register in the Honours Seminar course, CRIM 4500.0. This is a thirty (30) credit hour program. To graduate a student must achieve and maintain a minimum grade point average of B+ (3.30) in the following courses:

- a. CRIM 4500.0/SOCI 4530.0 Honours Seminar;
- b. CRIM 4501.1(.2) Advanced Criminological Theory;
- c. CRIM 4502.1(.2) Advanced Research Methodology in Criminology or SOCI 4493.1(.2) Advanced Research Methods;
- d. Eighteen (18) additional credit hours from Group B electives. No more than six (6) of these credit hours may be Directed Reading courses.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enrol in a course. The last three digits represent the “old” course number – for example, CRIM 2300.1(.2) was formerly CRM 300.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS “FULL COURSE”) HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED “HALF COURSES”) OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
CRM 300	CRIM 2300	CRM 404	CRIM 4404
CRM 301	CRIM 2301	CRM 406	CRIM 4406
CRM 302	CRIM 2302	CRM 407	CRIM 4407
CRM 303	CRIM 2303	CRM 409	CRIM 4409
CRM 304	CRIM 2304	CRM 411	CRIM 4411
CRM 305	CRIM 3305	CRM 414	CRIM 4414
CRM 307	CRIM 3307	CRM 415	CRIM 4415
CRM 308	CRIM 3308	CRM 500	CRIM 4500
CRM 309	CRIM 3309	CRM 501	CRIM 4501
CRM 310	CRIM 3310	CRM 503	CRIM 4503
CRM 312	CRIM 3312	CRM 600	CRIM 6600
CRM 313	CRIM 3313	CRM 601	CRIM 6601
CRM 314	CRIM 3314	CRM 602	CRIM 6602
CRM 322	CRIM 3322	CRM 603	CRIM 6603
CRM 364	CRIM 3364	CRM 606	CRIM 6606
CRM 400	CRIM 4400	CRM 607	CRIM 6607
CRM 402	CRIM 4402	CRM 608	CRIM 6608
CRM 403	CRIM 4403	CRM 615	CRIM 6615

2300.1(.2) Classical Criminological Theory

Prerequisite: formal declaration of a major/honours in criminology.

This course introduces students to the major themes of classical criminological theory. Students will examine key criminological debates from the 18th and 19th century which have influenced contemporary criminological theory. Topics may include early biological, individualistic, political, and social explanations of crime and criminality.

2301.1(.2) Contemporary Criminological Theory

Prerequisite: formal declaration of a major/honours in criminology and CRIM 2300.1(.2).

This course introduces students to the major themes of contemporary criminological theory. Topics may include the influence of urban life, gender, race, media and politics in explanations of crime and criminals, the regulations and governance of society through various social control mechanisms and the impact of feminist and postmodernist writings for theorizing about crime and criminality.

2302.1(.2) Criminal Statistics

Prerequisite: formal declaration of a major/honours in criminology and CRIM/SOCI 2364.1(.2).

The purpose of this course is to develop an understanding of the strengths and weaknesses of criminology research and crime statistics. Techniques of crime measurement, prediction, recidivism, research design and data interpretation will be addressed. The course will focus on quantitative methods and analysis.

2303.1(.2) Crime and Society

Prerequisite: formal declaration of a major/honours in criminology.

This course introduces students to contemporary patterns, issues, problems and themes pertinent to the field of criminology in Canada.

2304.1(.2) Canadian Criminal Justice System

Prerequisite: formal declaration of a major/honours in criminology.

This course examines the process of the criminal justice system in Canada. The roles, powers, and discretion of the police, the courts, and the correctional system are examined.

3210.1 (.2) Cross-listed as SOCI 3210.1 (.2) Social Difference and Human Rights**3220.1 (.2) Cross-listed as SOCI 3220.1 (.2) ‘Race’, Colonialism and Anti-Racist Discourse****3305.0 Cross-listed as SOCI 3315.0 Penal Governance and Federal Imprisonment in Canada****3306.1(.2) Cross-listed as SOCI 3390.1(.2) Gender, Race and Justice****3307.0 Policing and Society [SOCI 3354.0]**

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or SOC 1212.1(.2).

This course is designed to explore critical issues in the policing of modern societies. The social role of the police and police practices in contemporary society will be examined. Topics will include the functions and objectives of modern policing, the exercise of police powers, the use

of police discretion, the nature of police misconduct, the structures of police accountability and control, and the issues and problems of policing in a multicultural society.

3308.1(2) Corporate Crime
[SOCI 3355.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course examines and analyzes the nature, scope and impact of corporate crime, the principle organizational, social, political, and economic factors in the definition and commission of such crimes, and the ways in which governments and legal systems respond to the problems.

3309.1(2) Victimology
[SOCI 3356.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course offers an introduction to the study of victims of crime. Theoretical explanations and methodological techniques will be examined along with victim profiles and patterns of criminal victimization. The course will also address victim/victimizer attitudes and the role and impact of victims and the victim movement on the criminal justice system.

3310.1(2) Criminal Law
[SOCI 3357.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course is designed to familiarize students with Canadian criminal law. The course will focus on topics such as the history, nature and functions of criminal law, its elements and role in a democratic society, exemptions from criminal responsibility, its principles and procedures, and its administration and enforcement.

3311.1(2) Culture and Crime
[SOCI 3358.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course examines the relationship between culture and crime. Attention is given to the cultural representations of crime and the cultural dimensions of criminal justice through a review of the category of crime in a variety of discourses (newspapers, television, government policy, fiction).

3312.0 Young Offenders and Juvenile Justice
[SOCI 3359.0]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course takes an historical/comparative approach to the study of youth crime and juvenile justice in Canada. It examines changing definitions of youth crime, contemporary crime patterns, their explanation and proposed solutions. Societal responses to youth crime are addressed with a particular emphasis on the Young Offenders Act, its comparison to the Juvenile Delinquents Act, and a critical examination of youth corrections.

Note: Students with a credit for SOC 454.0 are not eligible to enrol in CRIM 3312.0/SOCI3359.0.

3313.1(2)-3314.1(2) and 3315.0-3316.0 Selected Issues in Criminology

[SOCI 3388.1(2)-3389.1(2) and SOCI 3381.0-3382.0]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOCI 1212.1(2).

These courses are designed to enable a student to examine particular criminological issues in detail. They will be offered according to faculty availability and expertise.

3320.1(2) Women, Law and The State
[SOCI 3345.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

This course will provide in depth consideration of feminist perspectives on the relation of women to the state and law. The nature of the contribution of criminal and family law to the reproduction of gender relations will be analyzed. The implication of legal intervention and nonintervention in family relations, sex specific and sex-related legislation will be examined. Theoretical concepts such as patriarchal relations, sexuality and reproduction, state violence, formal and informal social control will be addressed. The regulation of women outside the criminal justice system will be examined.

3321.1(2) Critical Issues in Policing
[SOCI 3392.1(2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(2) and either SOCI 1211.1(2) or SOC 1212.1(2).

Examines critical issues in modern policing by delving into their historical antecedents and modern rationales. We shall examine wide-ranging issues such as policing domestic violence, police unionism and anti-unionism, community-based policing, problem-oriented policing, and privatization. Students will gain a critical theoretical appreciation of the institutions of policing and their relationship to the state.

3322.1(.2) Woman Battery and the Criminal Justice System

[SOCI 3393.1(.2)]

Prerequisite: formal declaration of a major/honours in criminology; or SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or SOC 1212.1(.2).

Examines the role of criminal justice intervention for battered women by investigating the impact of the police, courts, and alternative programs. We will analyze the role of the Battered Women's Movement, academic research, and policy making. Feminist, family violence and psychological perspectives will be considered.

3323.1(.2) Drug Control in the 20th Century: An Investigation of Origins, Race, Class and Gender

Prerequisite: formal declaration of a major/honours in Criminology; or SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or SOC 1212.1(.2).

This course will provide a critical analysis of the assumptions underlying licit and illicit drugs, drug categories, pharmaceutical industry, The Controlled Drugs and Substance Act, and the "War on Drugs". The social construction of illicit drug use will be examined within an historical, cultural, political, and socio-economic context. Issues of moralism, race, class, and gender will be explored in relation to past and current drug policy.

3324.1(.2) The Political Economy of Organized Crime

Prerequisite: formal declaration of a major/honours in Criminology; or SOC 200.0; or SOCI 1210.1(.2) and either SOCI 1211.1(.2) or SOC 1212.1(.2).

The course introduces students to the study of organized crime. It investigates cultural and historical issues as well as the depiction of organized crime in film and literature. It focuses on the links between organized crime groups and socioeconomic elites in different parts of the world.

3350.1(.2) Cross-listed as PSYC 3320.1(.2) Psychology and Law

3351.1(.2) Cross-listed as PSYC 3335.1(.2) Abnormal Psychology

3352.1(.2) Cross-listed as PHIL 2332.1(.2) Ethics and the Law

3353.1(.2) Cross-listed as PHIL 2333.1(.2) Philosophy of Law

2364.1(.2) Cross-listed as SOCI 2364.1(.2) Research Design

4210.1 (.2) Cross-listed as SOCI 4210.1 (.2) Forced Migration and Transnationalism

4220.1 (.2) Cross-listed as SOCI 4220.1 (.2) Power, Equity and Global Issues

4400.0 Cross-listed as SOCI 4431.0 Law in Society

4401.1(.2) Cross-listed as SOCI 4432.1(.2)/WMST 4432.1(.2) Gender/ Law

4402.1(.2) Issues in Juvenile Justice [SOCI 4404.1(.2)]

Prerequisite: SOCI 2363.1(.2) and 2365.1(.2) or completion of the core criminology requirements; CRIM 3312.0 (SOCI 3359.0).

This is a seminar course that offers an in-depth examination of contemporary issues associated with youth crime and juvenile justice. Topics to be examined include explaining law reform, class, race, and gender issues in juvenile justice, the administration of youth justice, youth corrections, community alternatives, and restorative justice.

Note: Students with a credit for SOC 454.0 are not eligible to enrol in CRIM 4402.1(.2).

4403.0 Penology

Prerequisite: completion of the criminology core requirements.

This seminar traces the history of penal methods and the development of contemporary corrections with particular focus on the origins of imprisonment. This seminar will study contemporary correctional institutions with particular emphasis on the impact of prisons on inmates, prison subcultures, prison administration, and the assessment of educational, occupational and treatment programs. Correctional processes, as these relate to the typologies of offenders, and special problems of female, youthful and persistent offenders will be examined.

4404.1(.2) Critical Criminology

Prerequisite: completion of the criminology core requirements.

This seminar focuses on various themes in criminological theory which adopt a critical perspective of crime, crime control, law and criminality. Topics may include the politicization of crime and crime control, the significance of gender and race issues in explanations of crime and criminality, and criminalization as a mode of control.

4405.1(.2) Comparative and Historical Criminology

Prerequisite: completion of the criminology core requirements.

This seminar course examines the nature of deviance, crime and social control in past societies. It focuses on the development of criminal law and evidence, policing, the institutionalization of deviance and crime, penalty, the rise of social surveillance and social discipline, changing images of criminality and the social regulation of women.

4406.1(2)-4407.1(2) and 4408.0 Advanced Studies in Criminology

Prerequisite: completion of the criminology core requirements.

These seminar courses are designed to provide seminars pertaining to particular interests of faculty and students in criminology.

4409.1(2)-4410.1(2) and 4411.0 Directed Readings in Criminology

Prerequisite: completion of the criminology core requirements.

Intensive readings under the supervision of a faculty member in areas related to the student's program.

4412.1(2) Cross-listed as ANTH 3470.0 Forensic Anthropology**4414.1(2) The Politics of Youth Crime**

Prerequisite: SOCI 2363.1(2) and 2365.1(2) or completion of the core criminology requirements; CRIM 3312.0 (SOCI 3359.0).

This seminar course will examine the discourse of youth crime through an analysis of crime statistics, media reports, empirical research, theoretical perspectives, and risk management strategies. Its purpose will be to deconstruct current youth crime myths and the xenophobia directed toward youth in Canadian Society.

4415.1(2) Drugs and Power in Latin America

Prerequisite: completion of the Criminology core program requirements and CRIM 3324.1(2).

It is the goal of the course to familiarize the student with the complexity of Latin American Organized Crime. We will examine the historical and cultural dimensions of the drug trade, the evolution and role of specific criminal groups, as well as the drug war in the Americas.

4416.1(2) Soviet and Post-Soviet Organized Crime

Prerequisite: completion of the Criminology core program requirements and CRIM 3324.1(2).

The goal of the course is to familiarize the students with organized crime in the Soviet and Post-Soviet era. Students review the history of the USSR and investigate the role of Communist Party and State in the creation of the black market and the Mafia. Students also explore the rise of organized crime after 1991 as well as its internationalization.

4417.1(2) Sex & Gender in Criminology and Law

Prerequisite: completion of the Criminology core program requirements

This is a seminar course designed to explore the major themes in feminist criminology and legal studies. The seminar will include discussion of empirical and theoretical contributions to the field, but the main focus will be on

theory. Substantive topics covered include victimization, policing woman abuse, girls in gangs and female criminality. We will also critically evaluate how these topics are constructed in criminological and legal discourse. Conceptually, the course explores victimization, masculinity, subjectivity and discourse.

4500.0 Honours Seminar [SOCI 4530.0]

Prerequisite: enrolment in honours program.

The purpose of this seminar is to aid students in the preparation of an honours thesis on a topic agreeable to both the student and the faculty. The thesis should be approximately 10,000 words of text and should demonstrate an integration of theoretical, analytical and methodological skills appropriate to a degree at the honours level. It is expected that there will be an empirical component to the thesis.

4501.1(2) Advanced Criminological Theory

Prerequisite: enrolment in honours program.

This seminar course examines key debates and themes in criminological theory. Attention is given to the critical theoretical accomplishments of various writers.

Note: Students are advised to enrol in SOCI 4495.1(2)-4496.1(2) in years when CRIM 4501.1(2) is not offered.

4502.1(2) Advanced Research Methodology in Criminology

Prerequisite: enrolment in honours program.

This course will examine a wide range of quantitative and qualitative research methods and techniques used in criminological research. This course will emphasize the strengths and weaknesses, selection and application of various methodological techniques in conducting criminological research. These will include the application of statistical, experimental, and quasi-experimental techniques as well as the use of field research, interview techniques, historical and documentary analysis.

Note: Students are advised to enrol in SOCI 4498.1(2) in years when CRIM 4502.1(2) is not offered.

4503.0 Directed Readings in Criminology

Prerequisite: enrolment in honours program.

This course is designed to allow students to pursue a specific topic in criminology in considerable depth. Students are expected to demonstrate initiative and independence in this course of study.

Master of Arts in Criminology (M.A.)

Detailed requirements for the Master of Arts in Criminology are found in Section 3 of this *Calendar*.

Graduate Diploma in Criminology [G.Dip. (CRIM)]

Detailed requirements for the Graduate Diploma in Criminology are found in Section 3 of this *Calendar*.

Graduate courses are available to students registered in the Masters and Graduate Diploma Programs in Criminology. Other students must have approval of the Graduate Program Coordinator in the Department of Sociology.

The following courses are available only to students registered in the Master of Arts in Criminology or the Graduate Diploma in Criminology.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
600	6600	606	6606
601	6601	609	6609
602	6602	615	6615
603	6603		

6600.0 Advanced Seminar in Criminology

Prerequisite: graduate standing.

This seminar course will examine current theory and research by faculty and prepare students for thesis work.

6601.1(2) Advanced Criminological Theory

Prerequisite: graduate standing.

This seminar course is concerned with examining current themes and debates in criminological theory. Attention will be given to the influence of critical social theory, postmodernist, and poststructuralist writings for theorizing crime and criminality. Students may also be exposed to debates and critical discussions concerning criminology as a body of knowledge, the future of criminology as a discipline, and the relationship between the study of crime and criminals and social policy and crime control.

6602.1(2) Advanced Research Methodology in Criminology

Prerequisite: graduate standing.

This seminar course is designed to cover advanced topics, issues and techniques in criminological research. Topics may include the following: advanced multivariate statistical techniques, documentary and historical methods, evaluative and predictive research, participant observation/ethnography, and system analysis.

6603.1(2)-6604.1(2) and 6605.0 Advanced Topics in Criminology

Prerequisite: graduate standing.

These courses are designed to provide seminars pertaining to particular interests of faculty and students in criminology.

6606.1(2)-6607.1(2) and 6608.0 Directed Readings in Criminology

Prerequisite: graduate standing.

Intensive readings under the supervision of a criminology faculty member, in areas of interest related to the student's program of study.

6609.1(2)-6610.1(2) and 6611.0 Selected Topics in Criminology

Prerequisite: graduate standing.

Concentrated studies in areas of student specialization.

6615.0 Thesis Research

Prerequisite: graduate standing.

Research conducted under the supervision of an advisory committee.

Women's Studies (WMST – undergraduate; GWST – graduate)

Undergraduate Committee on Women's Studies

T. Heffernan,	English/
A. MacNevin,	Sociology
Acting Coordinators	
K. Ahooja-Patel	International Development Studies
E. Asp	English
S. Bell	Sociology and Criminology
M. Byers	Sociology
J. Cauville	French
L. Christiansen-Ruffman	Sociology
D. Crocker	Philosophy
A. Dalton	Religious Studies
A. Dobrowalsky	Political Science
P. Fitzgerald	Management
E. Haigh	History
M. Harry	English
R. Hulan	English
W. Katz	English
E. Keeble	Political Science
D. Kennedy	English
M. MacDonald	Economics
H. McGee	Anthropology
N. Sharif	Economics
E. Tastsoglou	Sociology
G. Thomas	Classics
G. Thomas	English
M. VanderPlaat	Sociology
S. Walter	Anthropology

The Saint Mary's Women's Studies program is designed to facilitate cooperation with other universities in the Halifax area. The program offers an interdisciplinary Bachelor of Arts degree in Women's Studies and an Honors degree as well as a minor in Women's Studies for students majoring in other disciplines.

Courses in Women's Studies lead to a fuller understanding of women's lives, culture, ways of knowing, struggles for social justice and change, and feminist theories and methodologies. Students in the program learn about the forms and structures of discrimination that prevent women from participating equally in society. They learn how many of the personal problems that confront women are generated by society rather than being particular to the individual. They study the process by which women's issues become public and lead to social change.

Women's Studies programs and departments have now become established throughout Canada and internationally. They are widely recognized as playing an important role in broadening our definition of knowledge and helping amend the bias and narrowness of many disciplines and courses.

Governments and large institutions are now acknowledging the need to work towards sexual equality; consequently graduates who can demonstrate their expertise in this area can expect opportunities to find practical uses for their knowledge.

Requirements for a Major

- Students must complete thirty-six (36) credit hours in Women's Studies. Normally they will accomplish this by taking the following courses:
 - WMST 1200.1(.2)
 - WMST 4420.1(.2) and 4421.1(.2)
 - the equivalent of six (6) credit hours with a clear focus on feminist theory, feminist methodology, and/or feminist analysis [e.g., such courses as WMST 4448.0 (from Saint Mary's); WOM 2210 A/B, 3310 A/B, 3311 A/B (from Mount Saint Vincent); or WOST 3500 A/B (from Dalhousie)].
 - twenty-seven (27) additional WMST credit hours offered by Saint Mary's, Mount Saint Vincent, and Dalhousie Universities. Courses from the latter two institutions are subject to the established Saint Mary's regulations governing transfer credits and will be processed through the established Letter of Permission system.
- All courses for the major must be approved by the Coordinator of the WMST program at Saint Mary's.
- Students must satisfy all the requirements for a major in the Faculty of Arts as delineated in Section 3 of this *Calendar*.

Requirements for an Honors

- For admission to honors in Women's Studies, students must have a minimum grade point average of 3.0 in Women's Studies courses. This average must be maintained for continuance in the honors program.
- In addition to the requirements for a major in Women's Studies, students must complete twenty-four (24) credit hours as follows:
 - either twenty-four (24) credit hours from Women's Studies, or eighteen (18) credit hours from Women's Studies and six (6) credit hours from a discipline related to the student's interest. Courses in which the content is women's studies related, but are not officially cross-listed as Women's Studies, may be substituted for Women's Studies credits with the permission of the Coordinator. Students are also encouraged to take advantage of course offerings in Women's Studies Programs at Mount Saint Vincent and Dalhousie Universities.
 - Honors Seminar (WMST 4520.0), which will include an honors thesis. The honors thesis should be in an area of Women's Studies of interest to the student; be approved by the instructor; and demonstrate knowledge of theory and methodology of Women's Studies in the area chosen.
- Students must meet the requirements for honors in the Faculty of Arts as delineated in this *Calendar*.
- Students may do double honors in Women's Studies and another area of their choice according to the Faculty of Arts regulations set down in this *Calendar*. They must also meet any additional requirements of the second academic program involved.

Requirements for a Minor

In addition to the general requirements for a minor outlined in Faculty of Arts Regulation 6(a), students should ensure that they complete six (6) credit hours from either WMST 4420.1(.2) and WMST 4421.1(.2) or six (6) credit hours described in 1(c) above.

Note: The abbreviation for undergraduate courses in Women's Studies is WMST.

IMPORTANT

In the 2004-2005 academic year, courses were renumbered from three digits to four. A new digit was added to the front of the sequence to indicate the year of study in which a student would normally enroll in a course. The last three digits represent the "old" course number – for example, WMST 1200.1(.2) was formerly WMS 200.1(.2).

Students are urged to be extremely careful not to register again for a course for which they have already earned credit. Academic Regulation 17(b) is extremely important to this matter.

IN THE CASES WHERE COURSES HAVE BEEN RENUMBERED, CHANGED IN LEVEL, OR WHERE A SIX (6) CREDIT HOUR COURSE (FORMERLY REFERRED TO AS "FULL COURSE") HAS BEEN SPLIT INTO TWO THREE (3) CREDIT HOUR COURSES (FORMERLY TERMED "HALF COURSES") OR VICE VERSA, A STUDENT WHO RECEIVED CREDIT RECOGNITION FOR THE ORIGINAL COURSE IS NOT ENTITLED TO REPEAT THE COURSE IN ITS NEW FORMAT OR ON ITS NEW LEVEL FOR ADDITIONAL CREDIT RECOGNITION.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
WMS 200	WMST 1200	WMS 423	WMST 4423
WMS 305	WMST 3305	WMS 427	WMST 4427
WMS 311-312; 313-315	WMST 2311-2312; 2313-2315	WMS 432	WMST 4432
WMS 433	WMST 4433		
WMS 317	WMST 3317	WMS 434	WMST 4434
WMS 320	WMST 3320	WMS 447	WMST 4447
WMS 321	WMST 3321	WMS 448	WMST 4448
WMS 325	WMST 3325	WMS 449	WMST 4449
WMS 326	WMST 3326	WMS 451	WMST 4451
WMS 341	WMST 3341	WMS 461	WMST 4461
WMS 348	WMST 3348	WMS 468	WMST 4468
WMS 349	WMST 3349	WMS 481	WMST 4481
WMS 352	WMST 3352	WMS 482	WMST 4482
WMS 353	WMST 3353	WMS 514	WMST 4514
WMS 360	WMST 3360	WMS 520	WMST 4520
WMS 380	WMST 3380	WMS 550	WMST 4550
WMS 387	WMST 3387	WMS 601	WMST 6601
WMS 391	WMST 3391	WMS 602	WMST 6602
WMS 393	WMST 3393	WMS 604	WMST 6604
WMS 401	WMST 4401	605; 606	6605; 6606

WMS 404-405; 406	WMST 4404-4404; 4406	WMS 609-611; 612-613	WMST 6609-6611; 6612-6613
WMS 407-408; 409	WMST 4407-4408; 4409	WMS 614-615; 616	WMST 6614-6615; 6616
WMS 414-415; 416	WMST 4414-4415; 4416	WMS 620	WMST 6620
WMS 417	WMST 4417	WMS 621	WMST 6621
WMS 420	WMST 4420	WMS 630	WMST 6630
WMS 421	WMST 4421	WMS 631	WMST 6631
WMS 422	WMST 4422	WMS 698/699	WMST 6698/6699

1200.1(.2) Focus on Women

This course presents a variety of perspectives on the role, function, and expression of women. It focuses on women using a variety of disciplines in both the humanities (e.g., classics, English, history, linguistics, and religious studies) and the social sciences (e.g., anthropology, economics, political science, and sociology).

2311.1(.2)-2312.1(.2) and 2313.0-2315.0 Special Topics in Women's Studies

Prerequisite: at least three (3) credit hours in WMST.

These are combined lecture-seminar courses on a selected topic in Women's Studies. Course content will vary from year to year. These courses allow students to take advantage of offerings in other departments relevant to a Women's Studies degree.

3305.1(.2) Cross-listed as RELS 2305.1(.2) Women in Christian Scripture and Tradition

3317.0 Cross-listed as ENGL 2317.0 Writing by Women
Prerequisite for WMST 3317.0: at least six (6) credit hours, or permission of instructor.

3320.0 Cross-listed as SOCI 3320.0 Women in Canadian Society

Prerequisite for WMST 3320.0: SOCI 1210/1211 or six (6) credit hours in WMST.

3321.1(.2) Cross-listed as CRIM 3320.1(.2) Women, Law and the State**3326.1(.2) Cross-listed as ENGL 3326.1(.2) Language and Gender****3341.1(.2) Cross-listed as SOCI 3341.1(.2) Women and the Media****3348.1(.2) Cross-listed as PSYC 3348.1(.2) Psychology of Gender Roles**

Prerequisite for WMST 3348.1(.2): one of PSYC 1200.1(.2), 1240.1(.2), 1250.1(.2), and 1260.1(.2).

3349.1(.2) Cross-listed as ECON 2349.1(.2) Women and the Economy**3352.1(.2) Cross-listed as CLAS 3352.1(.2) Women in Antiquity I**

3353.1(2) Cross-listed as CLAS 3353.1(2) Women in Antiquity II

3360.0 Cross-listed as HIST 2360.0 A History of Women in the Western World

3380.0 Cross-listed as PHIL 3380.0 Philosophical Issues in Feminism

3387.1(2) Cross-listed as SOCI 3387.1(2) Women and Development

Prerequisite for WMST 3387.1(2): at least six (6) credit hours in WMST, political science, economics or sociology.

3391.1(2) Cross-listed as MGMT 2391.1(2) Women in Management

Prerequisite for WMST 3391.1(2): completion of at least sixty (60) credit hours.

3393.1(2) Cross-listed as CRIM 3393.1(2) Women Battery and the Criminal Justice System

4401.1(2) Gender and Law

4404.1(2)-4405.1(2) and 4406.0 [6604.1(2)-6605.1(2) and 6606.0] Contemporary Issues of Feminism

Prerequisite: at least twelve (12) credit hours in WMST or permission of instructor.

These courses provide an opportunity for students to study in considerable depth and detail selected contemporary issues of feminism both within and outside of academia. For example, a course might focus on inequality of women in the labour force, the role of unpaid work, violence and its use against women, the colonization of knowledge within academia, or on technology including the impact of new reproductive technologies and their control of women.

4407.0-4408.0 and 4409.1(2)-4410.1(2) Cross-listed as SOCI 4407.0-4408.0 and 4409.1(2)-4410.1(2) Directed Readings in Sociology

Prerequisite for WMST 4407.0-4408.0 and 4409.1(2)-4410.1(2): at least twenty-four (24) credit hours in WMST and permission of instructor.

4414.1(2)-4415.1(2) and 4416.0 [6614.1(2)-6615.1(2) and 6616.0] Directed Readings In Women's Studies

Prerequisite: at least twenty-four (24) credit hours in WMST courses.

These courses offer students an opportunity to pursue advanced readings and research in a particular area of Women's Studies. The students and professors will design the programs of study together.

4417.1(2) Cross-listed as ENGL 4417.1(2) Feminist Literary Theory

4420.1(2) [6620.1(2)] Feminist Traditions in Scholarship
Prerequisite: at least seventy-eight (78) credit hours or permission of instructor.

Students will study the emergence of feminist theoretical perspectives, methodologies and analytical approaches in several disciplines in the humanities and social sciences.

4421.1(2) [6621.1(2)] Feminist Traditions in Contemporary Scholarship

Prerequisite: WMST 4420.1(2).

Students will study the role of feminist theoretical perspectives, methodologies and analytical approaches in the contemporary practice of several disciplines in the humanities and social sciences.

4422.1(2) [6622.1(2)] Cross-listed as SOCI 4422.1(2) Gender and Development: Theory and Method

Prerequisite for WMST 4422.1(2): theory and methods courses in WMST or sociology or permission of instructor.

4423.1(2) [6623.1(2)] Cross-listed as SOCI 4423.1(2) Gender and Development: Policy and Practice

Prerequisite for WMST 4423.1(2): theory and methods courses in WMST or sociology or permission of instructor.

4427.1(2) Cross-listed as ENGL 4427.1(2) Language, Gender and Power

Prerequisite: at least nine (9) credit hours at the 300-level or above.

4432.1(2) Cross-listed as SOCI 4432.1(2)

4433.1(2) [6633.1(2)] Cross-listed as FREN 4433.1(2) Women's Literature in France

4434.1(2) [6634.1(2)] Cross-listed as FREN 4434.1(2) Women's Literature in French Canada

4447.1(2) Cross-listed as SOCI 4447.1(2) Work and the Empowerment of Women in India

4448.0 [GWST 6647.1(2)/GWST 6648.1(2)] Cross-listed as SOCI 4448.0 Feminist Analysis

Prerequisite for WMST 4448.0: previous or concurrent theory and methods courses in WMST or sociology or permission of instructor.

4449.1(2) [6649.1(2)] Cross-listed as POLI 4449.1(2) Women and Public Policy

4451.1(2) [GWST 6651.1(2)] Cross-listed as POLI 4451.1(2) Gender and International Relations

4461.1(2) [GWST 6661.1(2)] Cross-listed as ENGL 4461.1(2) Polemical Writing by Women

4468.1(2) [GWST 6668.1(2)] Cross-listed as SOCI 4468.1(2) Women's Organizations and Change

4481.0 Cross-listed as SOCI 4481.0 Gender, Ethnicity and Migration**4482.1(.2) [GWST 6682.1(.2)] Cross-listed as SOCI 4482.1(.2) Gender and International Migration****4514.1(.2) and 4515.1(.2), 4516.0 Advanced Directed Readings in Women's Studies**

Prerequisite: admission into honors in Women's Studies or permission of instructor.

4520.0 Honors Seminar

Prerequisite: admission into honors in Women's Studies.

The purpose of the honors seminar is to aid students in the preparation of their honors theses. Students will deepen their knowledge of feminist theory, methodology, historical, and theoretical perspectives in the disciplines related to the topic of their honors theses. They will develop their research proposals and complete their honors theses within the context of this course.

4550.0 Cross-listed as ENGL 4550.0 Special Author

Prerequisite for WMST 4550.0: enrollment in the English honors program, or special recommendation of the Department of English, or permission of instructor.

NOTE: THE ABBREVIATION FOR GRADUATE COURSES IN WOMEN'S STUDIES IS GWST.

Previous Course #'s	New Course #'s	Previous Course #'s	New Course #'s
GWS 601	GWST 6601	GWS 614-	GWST 6614-
GWS 602	GWST 6602	615 & 616	6615 & 6616
GWS 604-	GWST 6604-	GWS 620	GWST 6620
605 & 606	6605 & 6606	GWS 621	GWST 6621
GWS 609-	GWST 6609-	GWS 630	GWST 6630
611; 612-	6611; 6612-	GWS 631	GWST 6631
613	6613	GWS 698/	GWST 6698/
		699	6699

GWST 6601.1(.2) Theories of Feminism

This class provides an in-depth study of feminist theory. It will look in particular at the development of theories over time and across borders, focusing on common assumptions and debates among feminists.

GWST 6602.1(.2) Feminist Methodologies

This class examines feminist critiques and strategies around knowledge and research methodologies. It explores historical and contemporary debates on important research issues.

GWST 6604.1(.2)-6605.1(.2) and 6606.0 Contemporary Issues of Feminism

See WMST 4404.1(.2)-4405.1(.2) and 4406.0 above for descriptions.

GWST 6609.1(.2) – 6611.1(.2); 6612.0 – 6613.0 Directed Study

Directed Study will allow students to draw on a range of faculty research interests on topics where classes are not regularly offered.

GWST 6614.1(.2)-6615.1(.2) and 6616.0 Directed Readings in Women's Studies

See WMST 4414.1(.2)-4415.1(.2) and 4416.0 above for descriptions.

GWST 6620.1(.2) Feminist Traditions in Scholarship

See WMST 4420.1(.2) above for description.

GWST 6621.1(.2) Feminist Tradition in Contemporary Scholarship

See WMST 4421.1(.2) above for description.

GWST 6630.1(.2) Graduate Seminar

This seminar will be used to discuss student research proposals and to provide a forum to integrate material from other classes and colloquia. It will bring together issues of Feminist theory, methodology and praxis with an interdisciplinary perspective.

GWST 6631.1(.2) Community-Based Learning

In this course students engage in learning which is community-based and developed in the context of each student's interests and needs. Students explore the theoretical, methodological and practical implications of their experiences from a feminist perspective.

GWST 6698.0/6699.0 Thesis

Students are required to produce a thesis worth two (2.0) credits. Therefore students must register in both these courses simultaneously. The thesis will require a proposal, will demonstrate research and communication skills and must be defended to fulfill the requirements. The thesis must meet the specifications of the institution at which the student is enrolled.

Note: Lists of courses in Women's Studies offered at Mount Saint Vincent are available in the *Academic Calendars* of that institution or from the Saint Mary's WMST Coordinator.

**Financial
Information**

**Section
6**

Financial Information

It is the responsibility of all students to be familiar with university regulations pertaining to financial matters.

At the time of publication, fees and financial policies for the 2006-2007 academic year had not yet been determined. The fees and financial policies listed in this Section are those for 2005-2006 and are subject to change before September 1, 2006. All fee calculations are made at registration without prejudice and are subject to confirmation and adjustment at a later date.

Payment due dates will be similar to 2005-2006 which were as follows:

Fall Term: September 16, 2005

Winter Term: January 13, 2006

(Fees and Policies listed below were those in effect for 2005-2006)

1. Tuition Fees – Undergraduate Level Courses

1.1 Undergraduate Per Course Tuition Fees

Cost per Course

[six (6) credit hours]

- Courses in the Faculty of Arts	\$1,074.00
- Courses in the Faculty of Commerce	1,074.00
- Courses in the Faculty of Science	1,094.00
- Diploma in Engineering	
1000 and 2000 Level EGN Courses	815.00
3000 Level EGN Courses	1,094.00
- Co-op Work Term	500.00

Science courses are offered in the academic units of Astronomy & Physics, Biology, Chemistry, Environmental Studies, Geology, Math & Computing Science and Psychology. The cost for a six (6) credit hour course administered by the Faculty of Science includes a Science Technology Fee of \$20.00. Therefore, the cost for a three (3) credit hour course taught in the Faculty of Science is \$547.00.

1.2 Contact Information

Students seeking additional information on matters related to undergraduate fee assessments should address their inquiries and correspondence to:

Supervisor, Accounts Receivable
Financial Services
Saint Mary's University
Halifax, Nova Scotia
B3H 3C3 Canada

Telephone: 902.420.5473
Fax: 902.496.8184
E-mail: accounts.receivable@smu.ca

Web site: <http://www.smu.ca/administration/financialservices>

2.0 Tuition Fees – Graduate Level Courses

2.1 Graduate students who commenced their program prior to August 31, 2004 are generally assessed tuition fees on a per course basis. Graduate students who commenced their program on or after September 1st, 2004 are generally charged a program fee except for the MBA program. If you are unsure of your status, please contact the Faculty of Graduate Studies & Research (FGSR). Contact information is noted at the end of this section.

2.2 Graduate Tuition Fees

	Cost Per Course [six (6) credit hours]	Annual Program Tuition Part Time	Full Time
- M.A. – Atlantic Canada Studies	\$1,469.00	\$1,469.00	\$2,938.00
- M.A. – Criminology	1,469.00	1,469.00	2,938.00
- Graduate Diploma: Criminology	1,469.00	2,938.00	5,876.00
- M.A. – History	1,469.00	2,938.00	5,876.00
- M.A. – Philosophy	1,469.00	2,938.00	5,876.00
- M.A. – International Development			
Short Program	1,179.00	2,652.75	5,305.50
Long Program	1,179.00	2,063.25	4,126.50
- Graduate Diploma: I.D.S.			
	1,179.00	2,358.00	4,716.00
- M.A. – Women's Studies			
	1,179.00	1,473.75	2,947.50
- M.Sc. – Applied Psychology			
	1,179.00	1,768.50	3,537.00
- M.Sc. – Applied Science			
	1,179.00	1,768.50	3,537.00
- M.Sc. – Astronomy	1,179.00	1,768.50	3,537.00
- M.B.A.	1,107.00	-	-
- Executive MBA			
Year 1 of two year program			
	-	-	19,000.00
Year 2 of two year program			
	-	-	19,000.00
- Ph.D. Management	-	-	5,000.00

2.3 Other Fees

MBA Program Fee per year	\$600.00
Thesis Continuation	
Per Year	450.00
Major Research Paper MBA Continuation	
Per Year	100.00
Leave of Absence Fee	
Per term	30.00
Non refundable seat deposit	
EMBA applied to first year fees	1,000.00
MBA applied to first year fees	100.00

2.4 Contact Information

Students seeking additional information on matters related to graduate fee assessments should address their inquiries and correspondence to:

Faculty of Graduate Studies and Research
 Saint Mary's University
 Halifax Nova Scotia
 B3H 3C3 Canada

Telephone: 902.420.5089
 Fax: 902.496.8772
 E-mail: fgsr@smu.ca
 Web site: http://fgsr.smu.ca

3.0 Compulsory Student Fees – Undergraduate and Graduate

3.1 Campus Renewal Fee

To provide for campus renewal and renovation, all students are assessed a Campus Renewal Fee. The fee is assessed based on the number of course registrations. For example, POLI 3335.0, a six (6) credit hour course, would be assessed \$60.00; ACCT 2241.1(.2), a three (3) credit hour course, \$30.00.

3.2 Student Fees

Students' Association and Journal fees are compulsory for all students. Compulsory medical plan details are described in Section 8 of this *Calendar*.

	Per Semester	Per Academic Year
Students' Association		
Full Time	\$59.50	\$119.00
Part Time	18.50	37.00
The Journal Newspaper	2.00	4.00
U-Pass Metro Bus 8 months	-	115.00
4 months	57.50	-
Canadian Medical		
Single		134.00
Family		289.00
International Medical		
Single		590.00
Family		1,209.00

4.0 International Differential Fees and International Status

4.1 Any student who is not a Canadian Citizen or a Permanent Resident must pay an international differential fee.

4.2 The fee is assessed in the same manner as tuition fees. That is, if the student is assessed on a per course basis then the differential is assessed on a per course basis. On the other hand, if the student is assessed on a program fee basis the differential will be assessed in the same manner. The following table illustrates the assessment process.

Undergraduate – per 6 credit hours	\$1,074.00
CO-OP	500.00
Graduate – Continuation Fees	
Thesis continuation per year	450.00
MRP MBA Continuation per year	100.00

Graduate – Program assessments

	Differential	Annual	
	Per Course [six (6) credit hours]	Part Time	Full Time
- M.A. -Atlantic Canada Studies	\$1,469.00	\$1,074.00	\$2,148.00
- M.A. -Criminology	1,469.00	1,074.00	2,148.00
- Graduate Diploma: Criminology	1,469.00	2,148.00	4,296.00
- M.A. –History	1,469.00	2,148.00	4,296.00
- M.A. –Philosophy	1,469.00	2,148.00	4,296.00
- M.A. -International Development			
Short Program	1,179.00	2,416.50	4,833.00
Long Program	1,179.00	1,879.50	3,759.00
- Graduate Diploma: I.D.S.	1,179.00	2,148.00	4,296.00
- M.A. -Women's Studies	1,179.00	1,342.50	2,685.00
- M.Sc. -Applied Psychology	1,179.00	1,611.00	3,222.00
- M.Sc. -Applied Science	1,179.00	1,611.00	3,222.00
- M.Sc. –Astronomy	1,179.00	1,611.00	3,222.00
- Ph.D. Business Admin.			2,148.00

4.3 Landed Immigration or Permanent Citizenship papers that support a change to a student's file must be presented to the Registrar's Office. The international differential fee will be dropped for the semester following the receipt of notification of change in immigration status.

4.4 International students who send money in advance and withdraw from the University after registration or do not register may have the funds returned to their country of origin less any required University administrative fee assessment and less any service charges assessed by financial institutions.

5.0 Sample Fee Calculations – 2005-2006

5.1 *Canadian Student: 5 courses [six (6) credit hours each] Undergraduate Arts Program (Courses: 4 [twenty-four (24) credit hours] in Arts, six (6) credit hours in Science – e.g. Psychology)*

	1 st Semester	2 nd Semester	Total
Tuition:			
• 24 credit hours in Arts	\$2,148.00	\$2,148.00	\$4,296.00
• 6 credit hours in Science	547.00	547.00	1,094.00
Medical	134.00	0.00	134.00
Student Fees	176.50	61.50	238.00
Campus Renewal Fees	150.00	150.00	300.00
Total	\$3,155.50	\$2,906.50	\$6,062.00

340 Financial Information

5.2 International Student: 5 [six (6) credit hours each] Undergraduate Commerce Courses

	1 st Semester	2 nd Semester	Total
Tuition	\$2,685.00	\$2,685.00	\$5,370.00
Medical	590.00	0.00	590.00
Student Fees	176.50	61.50	238.00
Campus Renewal Fees	150.00	150.00	300.00
Differential	2,685.00	2,685.00	5,370.00
Total	\$6,286.50	\$5,581.50	\$11,868.00

5.3 Canadian Student: Undergraduate Science Course [three (3) credit hours] in each Semester

	1 st Semester	2 nd Semester	Total
Tuition	\$547.00	\$547.00	\$1,094.00
Student Fees	0.50	20.50	41.00
Campus Renewal Fees	30.00	30.00	60.00
Total	\$597.50	\$597.50	\$1,195.00

6.0 Class Withdrawals and Refunds

6.1 The deadlines for academic withdrawal differ from those for financial adjustment of tuition and related fees. Please refer to the refund schedule.

6.2 Non-attendance in class does not constitute an official withdrawal. You must drop your courses online through Self Service (<http://selfservice.smu.ca>) or you will be responsible for all tuition and related charges.

6.3 Students who officially withdraw on or before the last day to add or drop courses will receive a refund less a \$50.00 administrative processing fee.

6.4 Students who officially withdraw after the last day to add or drop courses are eligible for a proportional adjustment of tuition and differential fees over a four week period. See the refund schedule for details.

6.5 The following tuition and differential refund schedule was in effect for 2005-2006.

Tuition, campus renewal and differential refund schedule:

	1 st semester Fall – 2005	2 nd semester Winter – 2006
Refund 70%	Sept 17 – 23rd	Jan 14 – Jan 20
Refund 55%	Sept 24 – Sept 30	Jan 21- Jan 27
Refund 40%	Oct 1 – Oct 7	Jan 28 – Feb 3
Refund 25%	Oct 8 – Oct 14	Feb 4 – Feb 10

6.6 Where a student withdrawal results in a credit balance, the student may be eligible for a refund. Prior to refunding a credit balance, Financial Services will review the student's funding arrangements to determine if a third party (eg. Canada Student loans, US Student loans – FFELP program, sponsors etc) has a first claim on the credit balance. Where the credit balance has no priority claims against it or if the credit balance exceeds those claims, a refund will be made upon request.

6.7 Students who leave the University without officially withdrawing and who subsequently officially apply for and

are granted a retroactive withdrawal by the Registrar's Office, will be charged a \$50.00 administration processing fee in addition to the regular University fees assessed to the student's official withdrawal date established by the Registrar. Student service fees such as Medical, Metro Transit Pass, Student Union and Journal fees are non refundable for retroactive withdrawals.

6.8 Withdrawal scales as outlined above do not apply to all programs, for example, the Executive Master of Business Administration, the PhD program in Management, the MBA – CMA, and the Master of Finance degrees. Please contact the Faculty of Graduate Studies and Research for further information.

7.0 Special Fees

Complete Withdrawal – processing fee	\$50.00
Binding of Master's Thesis (3 copies)	50.00
Official Transcript	5.00
(see Academic Regulation 32)	
Special Examination	50.00
Late Registration	50.00
Academic Appeal	30.00
NSF Cheque Fee	20.00
Identification Card Replacement	15.00
International File Fee	50.00
Income tax duplicate receipts	5.00
Parking –	General
Students	\$150.00 (HST included)
Faculty	\$225.00 (HST included)
Parking – Residence	
Tenant Underground	
\$170.00 (No HST) for 8 months	
\$250.00 (No HST) for 12 months	
Non-Tenants Underground	
\$200.00 + HST for 8 months	
\$300.00 + HST for 12 months	
Other Outside	\$140.00 per year (HST included)

8.0 Residence Fees

8.1 Accommodations and Meal Plans are described in Section 8 of the Calendar. The residence application fee is \$25.00.

8.2 Room Rates

	Per Semester	Per Academic Year
Room and Board		
Single Room		
Meal Plan 1	\$3,547.50	\$7,095.00
Meal Plan 2	3,707.50	7,415.00
Meal Plan 3	3,812.50	7,625.00
Meal Plan 4	4,025.00	8,050.00
Double Room		
Meal Plan 1	\$3,195.00	\$6,390.00
Meal Plan 2	3,355.00	6,710.00
Meal Plan 3	3,460.00	6,920.00
Meal Plan 4	3,672.50	7,345.00

Room Only

Apartment	\$1,862.50	\$3,725.00
Senior Suites		
Shared Bath	2,600.00	5,200.00
Private Bath	2,475.00	4,950.00

8.3 Residence Withdrawal and Refunds

Students who withdraw from residence, and simultaneously from the University, are eligible for an adjustment of room and meal plan fees on a proportional basis, calculated in weekly units. The minimum charge for residence is \$250.00 regardless of the date of withdrawal. No fee adjustment is granted after 14 November in the first semester and 13 March in the second.

9.0 Payment of Fees:**Payment due dates for 2005-2006 were as follows**

Fall: September 16, 2005

Winter: January 13, 2006

9.1 Methods of Payment

Payment can be made by debit bank card, money order, draft, Visa, MasterCard, American Express or cheque. Cheques should be drawn on a Canadian Financial Institution and made payable to "Saint Mary's University". Web credit card payments can be made through Self Service – visit <http://selfservice.smu.ca>.

Students whose fees are to be paid by government or third party sponsor (excluding Student Loan Programs) are required to present a signed statement, certificate or other appropriate supporting document to the Student Accounts office before the payment due date.

9.2 Students paying all or part of their tuition with a loan must meet University fee deadlines.

9.3 Students paying with Canada Student Loan Assistance are strongly encouraged to make application early so the loan arrives before the payment due date. Loans arriving after the deadline are subject to interest charges.

9.4 The University reserves the right to require full payment at the time of registration. Example: In the fall, students are required to bring their Student Loan assessment with them when their loan is signed. If the assessment shows sufficient funding for the winter term the loan will be signed for fall fees only. If the assessment indicates there is no winter funding, the loan will be signed for an amount to cover the winter tuition.

9.6 Second Semester Fee Payment:

Students continuing their studies in the second semester are required to pay their tuition on or before January 13.

(T.B.C.)

9.7 Registration for Second Semester

Students who register for the first time in January are required to pay a deposit of \$ 200.00 if registering for 9 credit hours or more and \$100.00 if registering for less than 9 credit hours. The balance of fees are due January 13

(T.B.C.)

9.8 Late Payment or Unpaid Accounts

Students who have not paid all fees may have their registration cancelled at the discretion of the Registrar and upon the recommendation of the Manager, Accounting. A student whose registration has been cancelled for non-payment of fees must pay all outstanding fees and an additional fee of \$50.00 prior to consideration of reinstatement by the Registrar.

Students whose accounts are in arrears will not be permitted to register until the account has been paid in full.

9.9 Interest Charges

Accounts outstanding after 16 September **(T.B.C.)** in the first semester and/or after 13 January **(T.B.C.)** in the second will be charged weekly interest at a rate of (12.68% per annum).

Students who do not pay summer school fees by the dates published in the Summer Session Registration Book will be charged interest.

Students paying with loans should note University fee deadlines are applicable and interest charges apply equally to all students. Students planning to pay their fees with Canada Student Loan Assistance are strongly encouraged to make application in sufficient time to ensure that the loan will be available prior to the payment due date.

Students whose accounts are in arrears will be denied marks, transcripts, tuition tax receipts and may be denied graduation.

10.0 Registration Deposits**10.1 Regular**

A deposit must be paid as part of regular academic registration, the balance of the first semester fees is due no later than 16 September **(T.B.C.)**.

Tuition Deposit for:

Eighteen (18) credit hours or more in the first semester	\$200.00
Less than eighteen (18) credit hours in the first semester	\$100.00

If a student has been awarded a Saint Mary's University Scholarship, the value of which is equal to or greater than \$400.00, no tuition deposit is required with the Mail-In Registration Form.

10.2 Late Registration: Payment deadlines must be met. In special circumstances, the University reserves the right to require pre-payment in excess of the first semester portion of tuition and residence charges.

10.3 Student Loans and minimum deposits

In September, students planning to pay their fees from a Canada Student Loan must pay the appropriate deposits.

Tuition only [eighteen (18) credit hours or more]	\$400.00
Single Room/M meal Plan	\$850.00
Double Room/M meal Plan	\$800.00
Apartment	\$500.00
Senior Suite	\$600.00

Student Awards and Financial Aid Programs

1. Entrance Scholarship / Bursary Program

Presidential and Santamarian Scholarships are awarded on the basis of:

A **very high aggregate score** (as calculated by the Admissions Office). Successful candidates typically have a Scholarship average of 95% or above. Recipients of these awards will be determined by their overall placement in relation to other candidates.

A **résumé**, which should comment on such things as involvement in community service, participation in student government, athletic achievement, extra curricular activities and volunteer and /or paid work.

The **Presidential/ Santamarian Recommendation Form**. The Presidential/Santamarian Recommendation Form can be downloaded from the Saint Mary's University web site <http://www.smu.ca/scholarships> or obtained by telephoning the Admissions Office at 902.420.5415.

Students will be considered for these scholarships when all of the above information has been received on time.

Presidential Scholarships are valued at \$9,000 (CAD) and renewable for up to four years for a total of \$36,000 (CAD). Number of awards limited

Santamarian Scholarships are valued at \$5,000 and renewable for up to four years for a total of \$20,000 (CAD). Number of awards limited

International Baccalaureate Scholarship: Saint Mary's has shown its commitment to the International Baccalaureate Diploma program by developing a scholarship specifically for IB Diploma candidates.

An **International Baccalaureate Recommendation Form** is to be completed by the IB Coordinator after final first semester (mid-year) grade twelve results are available. Diploma candidates will be considered for this scholarship once this form has been submitted to the Admissions Office, Saint Mary's University. Please fax no later than **March 15**. Fax: 902.496.8100

Award available to both domestic and international IB Diploma candidates.

Award valued at \$8,000 (CAD) per annum which is renewable for up to four years for a total of \$32,000 (CAD). Number of awards limited

Awarded on the basis of overall IB marks ranging from 38-45; a résumé, which should include information on such things as involvement in community service, participation in student government and athletic achievement. In addition, the completed International Baccalaureate Recommendation Form must be submitted under separate cover, by the high school IB Coordinator.

Recipients of this award will be determined by their overall placement in relation to other Diploma candidates. A candidate's overall ranking will be determined by the Admissions Office.

A minimum grade point average of 3.8 is required for renewal of this scholarship.

The deadline for all Scholarship consideration is **March 15** (Only applications accompanied by supporting documentation are considered). Scholarships are announced no later than **May 15**

Entrance Scholarships: Saint Mary's University guarantees a minimum total scholarship offer to any high school graduate with a Scholarship Average of 80% and higher. If students apply by March 15 and their admission average falls within the following categories, they will receive a minimum Entrance Scholarship offer if they begin their studies in September.

\$3,500 Renewable Entrance Scholarships are awarded to high school students with a scholarship average of 95% plus. The total value of this award over four years is **\$14,000 (CAD)**. The award will be continued during the recipient's undergraduate program provided the student maintains a minimum 3.67 grade point average (GPA) each year in a minimum of 30 credit hours. The number of awards offered each year is unlimited.

\$2,000 Renewable Entrance Scholarships are awarded to high school students with a scholarship average of 90% – 94.99%. The total value of this award over four years is **\$8,000 (CAD)**. The award will be continued during the recipient's undergraduate program provided the student maintains a minimum 3.67 grade point average each year in a minimum of 30 credit hours. Should the recipient achieve a GPA of 4.00 or above in any academic year, the value of their award will be increased for that year. The number of awards offered each year is unlimited.

85% to 89.99% guarantees a minimum Entrance Scholarship of \$1,000 (CAD). The number of awards offered each year is unlimited.

80% to 84.99% guarantees a minimum Entrance Scholarship of \$500 (CAD). The number of awards offered each year is unlimited.

Entrance Scholarships, valued at 50% of the above amounts, are also available for students who begin their studies in January. The number of awards offered each year is unlimited.

To calculate a Scholarship Average, Saint Mary's uses the Admission Average plus bonus points for enriched courses. Averages are calculated to two decimal points and are not rounded.

The deadline for **Entrance Scholarship** consideration is **March 15**.

Named Entrance Scholarship/ Bursary Awards

Saint Mary's University has a limited number of Named Entrance Scholarship/ Bursary awards. These awards are open to potential high school graduates. All applicants will be considered for these awards. Successful applicants will be offered the most appropriate award.

Please note: The Entrance Scholarship/Bursary Application form is available online at www.smu.ca/scholarships

Named Entrance Scholarship/ Bursary Awards

The Bob Kelly Bursary in Commerce

Brother Stirling Scholarship

Captain Albert Eisnor Memorial

Chester Scholarship

The Coy Family Scholarship

Duncan W Lynch Memorial Scholarship

Elaine Leventhal Memorial Scholarship

Leadership Entrance Scholarship

Heather Ferguson Entrance Scholarship

The Kevin Cleary Memorial Scholarship

Laurie W Smith Memorial Scholarship

Leo R MacDonald Memorial Scholarship

Lions Club of Prince Edward Island

Maxwell A. Martin Memorial Award

Rose Marie (Belliveau) Abraham Scholarship

Nova Scotia Power Entrance Scholarship

Nicola Schwind Memorial Scholarship

The deadline for Named **Entrance Scholarship/ Bursary** consideration March **15**.

For information on scholarships and admission status, please contact admission.status@smu.ca.

2. Achievement Scholarships (undergraduate)

Conditions: Candidates must qualify according to the regulations for scholarship holders outlined below. No application is required.

Value: \$1,000.00 to \$3,500.00.

Duration: One year. Students who qualify for the Dean's List are considered each year as they progress satisfactorily toward a **FIRST** undergraduate degree.

12 Month Academic Achievement Scholarship

Conditions: Students must have completed 30 credit hours in the preceding 12 Month Period of Study July 1, 2005 to June 30, 2006. All courses are used within this time frame for GPA calculations. Successful recipients must be registered as full-time (9 credit hours per semester) at Saint Mary's University in the following academic year. No application is required. Students eligible for the Full Time Academic Achievement Scholarship are not eligible for the 12 Month Achievement Scholarship.

Value: \$1,000.00 to \$3,500.00

3. Named Undergraduate Awards

A growing number of University-administered scholarships and bursaries are available to qualifying students at Saint Mary's University. Many of these awards have been established by generous Alumni, parents of Alumni, corporations and friends of the University. Financial support from these benefactors provides significant assistance to both the University and the annual recipients of the awards. The entire University Community is grateful for this generosity and support. Others are encouraged to support Saint Mary's in this manner. Should you wish to establish a scholarship or bursary at Saint Mary's, please contact the Director of Development.

Detailed award values, criteria, and application information for the named undergraduate scholarships and bursaries can be obtained from the Financial Aid Office or by accessing Student Services through the Saint Mary's University homepage.

The scholarship application deadline for the 2006-2007 academic year is 25 May 2006.

Saint Mary's University Undergraduate Scholarship Regulations and Application Procedures

a. By 25 May, candidates for scholarships must apply each year to the Financial Aid Office. Named Undergraduate Scholarships, Alumni Leadership Awards, and Faculty Union Scholarships require applications. Application packages are available from early February until the deadline of 25 May. Applications are not required for Achievement Scholarships.

b. Each award is granted for one academic year only. However, scholarships may be renewed each year on a competitive basis providing the students reapply or re-qualify.

Only one-half of the value of any scholarship or bursary awarded by the University will be credited to the student's account during each of the two semesters. Unless the value of the scholarship or bursary is equal to or greater than the total fees for the year, payment is required by the student (section 3a & 3b). If the award exceeds the total semester's charges, refunds will be given by Accounts Receivable, Financial Services, to those students requesting them, after 15 November for the first semester and after 28 February for the second semester.

c. Students are responsible for notifying the Financial Aid Office of **late course completions and grade changes** which were not recorded at the time when scholarship applications were filed. These must also reach the Financial Aid Office by **25 May**.

Note: The criteria for awarding entrance and continuing scholarships is currently under review, which may well result in revisions to these criteria.

d. In order to be considered for an undergraduate scholarship, students must have completed at least 30 credit

hours in the immediate preceding academic year (i.e., September to May). Courses taken at other institutions during the regular academic year and accepted as transfer credits at Saint Mary's University will be considered by the Senate Scholarship Committee provided that they appear on the student's record by 25 May or that the student notifies the Financial Aid Office in writing of any possible transfer credits by that date.

e. Students who receive scholarships from Saint Mary's must register in at least 30 credit hours in order to be eligible for the scholarships for that academic year. An exception will be made for graduating students who require 18 or more credit hours to complete their degree program, as well as disabled students. The criteria for retaining any scholarship will be outlined in the letter from the Financial Aid Office.

f. Students who are full-time in one semester and part-time in another or withdraw or complete their studies after one semester will receive one half of their scholarship.

g. Students who receive scholarships and fail to qualify for a renewal may re-enter the competition for scholarships should they subsequently requalify.

h. Scholarships are taxable income. A T-4A form will automatically be prepared by the University.

i. At registration, scholarship recipients are required to pay the balance of fees not covered by the award. If you have been awarded a Saint Mary's University scholarship, the value of which is equal to or greater than \$400.00, no tuition deposit is required for registration.

4. Mature Students

Students accepted on the basis of mature admission who show potential for high academic achievement may be considered for an entrance award through the Continuing Education Office. Letters of application should be sent to the Director of Continuing Education with an updated résumé and previous academic transcripts.

5. Demonstrators and Teaching Assistantships (Graduate Students Only)

In some departments, positions as laboratory demonstrators or research/teaching assistants are available for Saint Mary's University students. For more information please contact the appropriate department.

6. Awards Administered by the Donor (External Awards)

For information concerning these external awards application procedures, eligibility, and addresses, please contact the Financial Aid Office or access Student Services through the Saint Mary's University homepage.

7. Canada Student Loans Program

Students requiring financial assistance to help meet their educational expenses should apply for Canada Student Loans. (Exception: Residents of Quebec apply for Quebec Student Loans.) Application is made to the province in which the student is a resident.

Students are encouraged to apply before 30 June (30 May for Quebec) to avoid late payment charges at the University. Applications are available directly from the provincial Student Aid Offices. Nova Scotia residents should pick up forms from the Provincial Student Aid Office, 2021 Brunswick Street, Suite 409, Trade Mart Building (see mailing address below).

Notification of Award

Students found eligible for Canada Student Loans from Nova Scotia will be sent their notification and documents in the mail. Canada Student Loans and/or bursaries from most other provinces are sent directly to the University.

Students should check the **Provincial Awards Board** located in Student Services on the fourth floor of the O'Donnell-Hennessey Student Centre. Notices of any funds received are posted here as well as relative information or special instructions pertaining to each province. Funds will be held at the Financial Services, McNally Main, until students sign for them.

Canada Student Loans Program: Part-Time Loans Plan

Guaranteed loans for part-time students attending post-secondary institutions are available under this program funded by the Federal Government. Students apply to the Provincial Student Aid Office in their Province of Study.

Canada Student Loans Programs: Interest Relief Plan

The Canadian Government will pay the interest on full-time or part-time Canada Student Loans on behalf of the debtor if he/she is experiencing financial hardship due to unemployment or disability. Applications for Interest-Relief forms are available in local banks.

Detailed information regarding financial aid eligibility, application procedures, and appeals may be obtained from the appropriate Provincial Student Aid Office. Assistance with more complicated appeals is available by contacting the University Financial Aid Counsellor.

Nova Scotia

Student Aid Office
Telephone 902-424-8420 General Inquiries
Voice Response Unit 902-424-7737
TDD 902-424-2058
Toll free in Nova Scotia
1-800-565-8420 General Inquiries
1-800-565-7737 Voice Response Unit
<http://www.ednet.ns.ca/educ/student/menu.htm>

New Brunswick

Student Financial and Support Services
Voice Response: 506-453-4796 (Fredericton area) or
1-800-667-5626 (Atlantic Provinces, Ontario, and Quebec only)
<http://www.gov.nb.ca/ael/stuaid/guide.htm>

Newfoundland

Student Aid Division
 709-576-2648 Recording
 709-576-4235 Information and Assistance
 1-800-563-2000
<http://www.edu.gov.nf.ca/studentaid/>

Ontario

Student Awards Branch
 Ministry of Colleges and Universities
 Student Support Board
 189 Red River Road, 4th Floor
 PO Box 4500
 Thunder Bay, Ontario
 P7B 6G9
 1-807-343-7260
 1-800-465-3013 (within Ontario)
<http://osap.gov.on.ca>

Prince Edward Island

Student Aid Office
 902-368-4640
http://www.gov.pe.ca/educ/resources/stu_aid/index.asp

Quebec

Direction generale de l'aide
 financiere aux etudiants
 1035, de la Chevrotiere
 Quebec, Quebec
 G1R 5K9
 418-643-3750
 24-hour automated service 514-864-4505 or
 418-646-4505
<http://www.meq.gouv.qc.ca/afe>

Note: Addresses for Student Aid Offices in other provinces are available upon request from the Financial Aid Office.

United States Student Loan Programs

Saint Mary's University is a certified institution for the United States FFELP (Family Federal Education Loan Program). Specific documentation is required from students to administer this loan program. Please contact the Financial Aid Office for detailed instructions on qualifying for the FFELP Program.



An enthusiastic crowd of more than 70 gathered at Halifax's World Trade and Convention Centre on February 3 for Nova Scotia's inaugural Healthy Workplace Award Ceremony. The event, which is held annually in 34 US states, recognized five organizations from across the province for their commitment to the psychological health and well-being of their employees. Nova Scotia is the second province in Canada, along with British Columbia, to offer the award. In Nova Scotia, the CN Centre for Occupational Health and Safety at Saint Mary's University and the Association of Psychologists of Nova Scotia are co-sponsors of the award.



Sobey MBA students took part in the TD Bank Great Canadian Shoreline Cleanup at Crystal Crescent Beach on September 24, 2005.

**Centres, Institutes and
Special Programs**

**Section
7**

Centres, Institutes, and Special Programs

Atlantic Canada Centre for Environmental Science

The Atlantic Canada Centre for Environmental Science was established at Saint Mary's University in 1991. Its primary function is to foster interdisciplinary research related to the environment.

Objectives

The purposes and functions of the Centre are to provide:

1. a mechanism for interdisciplinary research relating to the environment;
2. opportunities for interaction of faculty and departments in a common theme; and
3. a focal point to facilitate discussions with business and government agencies for research grants and contracts relating to environmental subjects.

Structure

Membership of the Centre is open to Saint Mary's faculty members and other qualified professionals interested in any aspect of Environmental Science in the broadest sense of the term.

Research

Members of the Centre are engaged in a wide range of activities including studies of climate change and its impacts, air, soil and water pollution, geothermal energy, hydrocarbon separation processes, impacts of mining on the landscape, weathering of rocks and treatment of mine tailings, environmental impacts on ecosystems, conservation, habitat restoration, coastal zone management, fisheries management, effects of pollution on fish parasites, microbial insecticides, and palaeoenvironment analysis. Contact: M. Lamoureux. Phone: 902-420-5652; fax: 902-496-8104; e-mail: marc.lamoureux@smu.ca.

The Atlantic Centre for Ethics and Public Affairs

In the spring of 2003, Saint Mary's University and The Atlantic School of Theology (AST) established The Atlantic Centre for Ethics and Public Affairs, located on the AST campus, Halifax. As a community based project, this Centre will bring researchers from across the region together to foster cross-cultural and interfaith conversation on ethical issues, and encourage dialogue between AST, Saint Mary's, and the wider community. The first of its kind in Atlantic Canada, The Centre has been designated as a high priority in the strategic plan of both AST and Saint Mary's; is sponsored jointly by the two institutions; and is a direct result of the formal affiliation, achieved in 2002.

The purpose of the new Atlantic Centre for Ethics and Public Affairs will be to serve the public of Atlantic Canada through research, discussion and policy recommendations focusing on ethical issues arising locally and internationally from fundamental changes in society. The new Centre will

collaborate across disciplines and build coalitions with community partners on a project by project basis. It is to be university based and will exist to promote dialogue between the academy and downtown. From its base in the university, its task will bring the scholarly expertise of faculties and students from the humanities, theology, the social sciences, the sciences and commerce into conversation with one another about selected ethical issues.

Business Development Centre

The Saint Mary's University Business Development Centre (SMUBDC) was established in 1989 as part of the University's community outreach initiatives. Two basic objectives guide SMUBDC

in its operations:

1. introducing the challenges and opportunities facing today's organizations to Saint Mary's Commerce and MBA students while providing career training to these students; and
2. providing private and public sector clients with cost-effective business consulting and counselling services.

Involvement at SMUBDC, either through the Business Consulting course and/or part-time or summer employment, allows students to experience the impact that business planning and financial management have on an organization. By working with SMUBDC and its clients, students are better able to understand the relationship between management, marketing, accounting, and finance in a practical business setting. Past students have said that participation at the Centre "is definitely a positive working experience for any business student" and "provides excellent grounds for students to apply their business knowledge in today's marketplace."

SMUBDC focuses on giving students hands-on experience and linking them with both the business community and with potential employers. By combining students with experienced business consultants and university resources, SMUBDC offers students a unique chance to collaborate with potential and existing business ventures. SMUBDC offers a wide range of business consulting and counselling services including business planning, market and promotional planning, financial statement preparation, community development planning, customized training, and special projects.

SMUBDC's office is located in downtown Halifax at 1546 Barrington Street close to Spring Garden Road. For more information about SMUBDC or its Business Consulting course, visit the SMUBDC's website at www.smu.ca/smubdc; or call SMUBDC at 902-429-2992. We look forward to working with you.

CN Centre for Occupational Health and Safety

In April 2002, the CN Centre for Occupational Health and Safety was announced. Housed in The Frank H. Sobey Faculty of Commerce, this CN Centre will be the only centre of its kind in Canada and fits the mission of both CN and Saint Mary's. As the President of the University acknowledged, the funding from CN will permit Saint Mary's to leverage additional funding sources to develop a centre of excellence with a powerful, economic and social impact in Canada and internationally. On the other side, the President and CEO of CN indicated that CN is proud to take our commitment to safety to a new level by way of this donation to Saint Mary's. The Sobey Faculty of Commerce has earned a reputation as one of the top business schools in the country and we are pleased to be associated with it.

Building on Saint Mary's strengths in human resource management and industrial and organizational psychology, the CN Centre will promote interdisciplinary research in occupational health and safety. This will involve the Department of Psychology, the Sobey School of Business, and the Division of Continuing Education.

Occupational health and safety research focuses on the protection and promotion of the safety, health, well-being and work-life quality of the workforce. Saint Mary's has the largest concentration of occupational health psychology researchers in the country. The researchers will collaboratively build on the already established research programs at the University in areas such as occupational stress, work and family conflict, occupational health and safety, and workplace violence.

Public and private sectors will benefit from educational, job training, assessment and program development opportunities provided by the CN Centre for Occupational Health and Safety.

Centre for Leadership Excellence

The newly created Centre for Leadership Excellence at Saint Mary's University is one of a kind in Atlantic Canada. With financial support from the Saint Mary's Strategic Initiative Funds and the Canadian Forces Leadership Institute, the Centre has been created to foster leadership research partnerships and deliver leadership assessment and development services.

In an increasingly uncertain economic environment characterized by rapid organizational change and restructuring, leadership is emerging as a critical determinant of organizational viability and success. Unfortunately, many individuals in leadership positions have not been trained in leadership, and more specifically, in styles of leadership that are appropriate for a rapidly changing environment. As a result, those individuals who are given the primary responsibility for ensuring that change takes place are all-too-often the very individuals who are most overwhelmed and least prepared for these new challenges. Successful organizations, both public and

private, are now recognizing the need to re-invest in their leaders and in leadership.

Researchers at Saint Mary's University have been actively involved in the science and practice of leadership development for some time. Both as part of the formal course offerings of the University and individual collaborations with industry, Saint Mary's has accumulated a diverse array of expertise in areas relating to leadership development. Moreover, we have, both collectively and individually, established collaborative working arrangements with centres such as the Canadian Forces Leadership Institute as well as with individual academics and practitioners working in the field. Active research programs are already established in leadership theory including transformational leadership, the effects of leadership on individual well-being, techniques of leadership development, and remote leadership. Recognizing these strengths, the principals have come together to form a Centre for Leadership Excellence.

The Centre is building on the existing concentration in this emerging field and is positioning the University to take advantage of private and public interest in the area of leadership. In addition to collaborative partnerships within the university, very close ties have been established with the Canadian Forces Leadership Institute and have secured financial support for the centre from both the CFLI and the strategic initiatives fund. The Centre will allow for the development of curriculum-including post-graduate, graduate and undergraduate courses that will directly benefit current and potential students of the University. The development of an assessment centre capability and the capability to deliver a wide range of leadership development initiatives is also an important advantage to the Centre.

Purpose and Operation

The goals of the Centre for Leadership Excellence are to build on this foundation to:

- (a) co-ordinate and conduct basic and applied leadership research;
- (b) build capacity for leadership in Nova Scotia and the Atlantic Provinces;
- (c) co-ordinate and conduct activities related to the assessment and development of leadership potential;
- (d) provide assessments and leadership development to both private, public, and not-for-profit agencies on a contractual basis;
- (e) develop and deliver leadership training and development programs;
- (f) provide students with educational and consulting opportunities in the area of leadership;
- (g) be the Atlantic Provinces resource for information concerning best practices in the areas of leadership assessment and development;
- (h) work collaboratively with other centres at the University and across the country to further the aims expressed above; and
- (i) develop infrastructure to support the above activities.

In November 2003, GAMA International Canada, a professional association dedicated to leaders and managers involved in the distribution of financial services, and the Centre for Leadership Excellence at the Sobey School of Business, Saint Mary's University, announced the formation of a strategic partnership in providing the newly-created Chartered Management Professional (CMP) designation.

The CMP program applies academic and practical skill-building content in four key areas critical to successful leadership within the financial services industry: coaching and leadership; recruiting; selection and retention; training and education; and business development (including marketing, technology, and online testing as well as participate in four course offerings from GAMA-approved educational partners in classroom, teleconferencing, and onling formats. The capstone of the CMP program is a business planning module that incorporates accountable goals and objectives that each participant will be able to integrate into his or her daily role.

Saint Mary's Centre for Leadership Excellence is currently developing the four academic courses that form the core of the CMP program. The Chartered Management Professional program is the first designation program in Canada created exclusively for those working in leadership positions within the financial services industry. Further information is available from Dr. D. Wicks, Acting Dean of Commerce, Sobey School of Business.

Centre for Spirituality in the Workplace

The newly created Centre for Spirituality in the Workplace at Saint Mary's University is the first academic-based centre for work and spirituality in Canada. The Centre is a catalyst for work and spirituality research, teaching, and service through collaboration across departments, disciplines, and sectors; to promote, foster and nourish the idea of spirituality in the workplace. The Centre encourages the academic community to discover the means to implement spirituality and work through teaching, research, and community service. The Centre participates in the development of courses and conferences on work and spirituality for interested local and regional community members. The Centre also partners with other academic-based centres on Spirituality and Work.

Gorsebrook Research Institute for Atlantic Canada Studies

The Gorsebrook Research Institute for Atlantic Canada Studies was established at Saint Mary's University in 1982 to enhance and strengthen the research component of the University's Atlantic Canada Studies program. The Institute is an interdisciplinary research centre concerned with social, economic, and cultural issues specific to Canada's Atlantic Region. The Institute offers research associate positions to visiting professors, post-doctoral fellows, and graduate students.

Objectives

The aims of the Gorsebrook Research Institute are to encourage and facilitate social, economic, cultural, and environment-related research pertaining to the Atlantic provinces; to act as an Atlantic Canada resource base and data centre for universities, governments, and the private sector; to facilitate university and other-sector research cooperation; to promote interdisciplinary and interuniversity cooperation, and to encourage university community outreach through collaborative research projects.

Resources

The Institute's resource centre includes regional data sets, audio-visual materials, theses, Atlantic Canada bibliographies and relevant manuscripts, periodicals and articles, and is a distribution point for all Gorsebrook publications.

Research Activities

This past year has seen the establishment, under the auspices of the Canada Research Chair in Atlantic Canada Studies, of the **Centre for New Media Qualitative Research**. The Centre facilitates inter- and transdisciplinary qualitative research using traditional and new media. It provides a secure comfortable setting for collecting information from focus groups or individual interviews. It has the ability to generate high-quality audio and video records of those interviews, complete with transcripts. The facility serves as a training centre for students and researchers interested in building their qualitative research skill set, and offers learning and training opportunities for community partners.

The **Centre for the Study of Sport and Health** encourages interdisciplinary research on issues relating to sport, physical activity and healthful living; enhances communication between researchers, the sporting community and government; disseminates research on sport and health issues through conferences, symposia and public forums; and fosters interdisciplinary undergraduate and graduate degree programming relating to sport, health, and society.

The **Austin Willis Moving Images Centre** is a multimedia service facility and research centre focusing on the application of new technologies to education and scholarship. It is presently involved in documentary video production, and a history of the moving image in Nova Scotia.

Ongoing research initiatives include the **Labrador Project**, a collaborative effort involving the Institute, the Innu Nation of Labrador and the Department of the Environment. This project provides research input relating to environmental and educational issues, and is involved in helping the Innu Nation prepare for self-government. The Institute also acts as the national secretariat for a SSHRC Centres of Excellence project, the **Oceans Management Research Network**. The OMRN involves the Gorsebrook in partnership with Memorial University, University of Manitoba and Simon Fraser to create and share knowledge

for the application of critical thinking and best practices to oceans management in Canada.

Additional activities include faculty seminars, workshops, public forums, and conferences. The Institute has published more than a dozen books over the past ten years, and has national and international links with various universities, institutes, publishers, and government departments. The Institute is located on the Saint Mary's campus, and can be reached at 902 420-5668; fax: 902 496-8135; or email: gorsebrook@smu.ca

Institute of Human Values

The supporters of the Institute believe that knowledge, morality, and freedom form an interdependent triad, and that the contemporary break-down of this relationship threatens all three aspects of human development. The Institute seeks to restore these vital links through discussion, teaching, research, and publication.

The contemporary crisis to which the Institute addresses itself is fourfold:

1. A crisis in the humanities, the social and the natural sciences, stemming from the failure to produce a theory of knowledge consonant with their characteristic functions and activities, and with their essential complementarity.
2. A moral crisis deriving from the divorce of personal morality from knowledge on the one hand, and from personal and social well-being on the other.
3. A crisis of leadership in all aspects of human activity, deriving from a widespread inability to make any meaningful connection between knowledge and judgement.
4. A crisis in the area of political freedom which derives, at least in part, from a loss of the sense of the historical relationship between moral values and the winning and defence of that freedom.

The Institute does not attempt to grapple with these problems as a self-sufficient entity, but acts rather as a catalyst through which the human and physical resources of Saint Mary's and other universities are brought to bear upon them.

Institute Activities

1. The coordination of the work of the members of the Institute in the various disciplines.
2. Research on all aspects of the relationship between knowledge, values and freedom, as well as upon urgent contemporary problems in which values are deeply involved.
3. The advising of students who wish to supplement their majors with problem and theme oriented core programs.

4. Liaison with faculties and departments with the object of implementing and improving such programs.
5. The advising of students who wish to follow a program related specifically to human values.
6. The arranging of special lectures and symposia designed to explore all aspects of knowledge, values and freedom.
7. The editing of *The Vital Nexus*, a journal concerned with the relationships between conscience, justice, and freedom.
8. The production of video and sound tapes on values problems for distribution to the University Community and to the public at large.
9. The organizing of interdisciplinary symposia at the annual meetings of the Canadian Learned Societies.
10. The establishment of a clearing house of information on questions related to knowledge, values and freedom, as a service to its members within the University and throughout the world.

The Institute is located in Room 308, Burke Building. Contact numbers are 902-420-5753; fax: 902-420-5181; and e-mail: john.mackinnon@smu.ca.

The Institute for Computational Astrophysics (ICA)

The Institute for Computational Astrophysics (ICA) was formally founded within the Department of Astronomy and Physics at Saint Mary's and became operational in December, 2001. The ICA is a unique entity on the Canadian academic landscape that exploits the synergy between high-speed computers and powerful computer algorithms for solving the complex equations governing many astrophysical phenomena.

Computational astrophysics addresses the most challenging questions posed by humanity. What are the conditions necessary for a life-bearing world such as the Earth to form? How do stars form? How do galaxies form? What is the fate of the Universe? More and more, the computer is becoming the laboratory for astrophysicists who, unlike their colleagues in chemistry, physics, and biology, do not have the luxury of interacting with their sample. Modeling stars, galaxies, even the entire Universe on a computer is the closest an astrophysicist can come to experimenting with objects of astronomical interest, and is the only way to tackle the really big problems in astrophysics.

As part of Saint Mary's new vision for research and graduate studies, the ICA was allocated two of the University's Canada Research Chairs as well as a new regular faculty position, all filled by computational astrophysicists of world renown. The three new faculty have joined two existing computational astrophysicists to form a research cluster of five full-time faculty members whose

interests span all astronomical scales; from the confines of the solar system, to the formation and evolution of stars, to the giant extragalactic radio jets, the largest known contiguous objects in the Universe. The activities of the permanent faculty will be complemented by post-doctoral fellows, Master's and Ph.D. students, and a steady flow of visitors and speakers. By 2006, it is anticipated that the ICA will house as many as 25 researchers at any given time on the campus of Saint Mary's University.

The ICA is located in the McNally Building, MM 311, and can be reached by phone at 902-420-5439; by fax at 902-496-8218; or by email: bdeupree@ap.stmarys.ca

Regional Geochemical Centre

The Regional Geochemical Centre at the Department of Geology is an integrated research service facility that provides high-quality chemical analyses to earth and environmental scientists at universities and in government and industry throughout the region. The facility was established in 1983 and is equipped with an X-ray fluorescence spectrometer, and various other instruments for chemical analyses. The Centre is located on the fifth floor of the Science Building at Saint Mary's University. Phone number: 902-420-5743; fax: 902-420-5261; e-mail: jarda.dostal@smu.ca.

Teaching English as a Second Language (TESL) Centre

ESL/EAP/EPPC/ESP Programs

The TESL Centre offers year-round language, cultural, and orientation programs for non-native speakers of English. These may consist of courses in general English as a Second Language (ESL), English for Academic Purposes (EAP), English for Personal and Professional Communication (EPPC), English for Specific Purposes (ESP), pre-MBA Language and Culture programs, small tutorial or seminar groups, tutors for individuals, or integrative social activities.

Special courses are also arranged on a contractual basis with individuals, universities, governments or businesses. These are designed to meet the specific needs of the second language students and may focus on the language used in specific disciplines or professions.

In addition to a language component, programs may include academic, social, and cultural components and provisions for either residence or homestay accommodation. Interaction with the surrounding English-speaking community is emphasized so that students will feel at home in their new environment.

The TESL Centre also offers a certificate course in Teaching English as a Second or Foreign Language to those who wish to gain knowledge and skills in the field of ESL or EFL. Students in this program gain practical experience working with students learning English in the TESL Centre.

The TESL Centre is located at 980 Tower Road and can be reached at 902-420-5691; fax: 902-420-5122; and email: tesl@smu.ca.



Executive Members of the Saint Mary's University Students Association (SMUSA) present Margaret-Anne Bennett, Chair of the Board of the Nova Scotia-Gambia Association (NSGA), with a cheque for \$759.11. Funds were raised on campus through a Red Ribbon Campaign in recognition of World AIDS Day, December 1, 2005, in support of the work of the NSGA in West Africa. Left to right: Jeff Lohnes, Emeka Chinabu, Margaret-Anne Bennett, Olivier Jarda, Zach Churchill, and Leah Bilodeau.

Resources and Services

**Section
8**

Resources and Services

Alumni Association

The Alumni Association is an organization of graduates and former students of Saint Mary's. The Association seeks to promote the welfare of the University, and to foster continued association with the University and with one another. The activities of the Alumni Association are coordinated by the Alumni Office in conjunction with an elected executive which includes six members to the University's Board of Governors.

The Alumni Association organizes many events throughout the year, including Homecoming/Alumni Weekend, Annual Alumni Dinner, Annual Golf Tournament, etc. The Association also supports a network of Branches and Chapters around the world, which host their own events for Saint Mary's alumni.

The Alumni Association sponsors the Student Alumni Association. These students are known as the SMU AMBASSADORS who serve to promote interaction between students and alumni and encourage students to become loyal, active supporters of Saint Mary's University. The SMU AMBASSADORS plan several programs each year that provide services to students, improve the quality of campus life and promote a sense of pride in the University. Fund raisers include: Exam Survival Packs for residence students; coat checks at the student pub The "Gorsebrook" and lollipop sales at varsity games; as well as various other activities both on campus and in the community.

The SMU Ambassadors help the community by canvassing for the Alzheimer's Society, Diabetes Society, Heart & Stroke Foundation, Cancer Society, Metro Food Bank, and attendance each year at the Kid's Help Phone Academy Awards Gala fund-raiser and on-site degree framing with the University Bookstore at each Convocation.

Annually, the Association awards the Dr. William A. Stewart, S.J., Medal for Excellence in Teaching; the Gold Medal for the outstanding undergraduate in Science; achievement awards for academic merit among resident students; and awards for graduating athletes.

The Association provides for substantial scholarship awards each year and supports many student activities and organizations. At each Convocation, special Alumni pins are presented to each graduating student.

The Alumni Office is located at 867 Robie Street. You can contact the Alumni Office by phoning 902-420-5420; fax: 902-420-5140; or e-mail: alumni@smu.ca.

Art Gallery

Metcalfe, Robin, B.A. (Hons.) (Dalhousie), Director/Curator
Zingone, Robert, B.A. (Toronto), M.F.A. (NSCAD),
Assistant Curator

Constructed to National Gallery of Canada standards and opened in October, 1971, Saint Mary's University Art

Gallery was the first purpose-built university art gallery in Halifax. It is located on the ground floor of the Loyola Building.

The gallery focuses on contemporary art, featuring both emerging and established artists active on the regional, national and international levels. Occasional historical exhibitions provide depth and context. New exhibitions open every 6-8 weeks, with a total of 10-12 exhibitions a year. The gallery produces publications for all temporary exhibitions that it originates, and hosts frequent panels, lectures and artists' presentations. Boasting one of the finest pianos in the region, the gallery also serves as a venue for performances, concerts, readings and lectures on various subjects.

From its inception, the gallery has maintained a permanent collection, currently comprising over 1,500 individual works, primarily by contemporary Canadian artists. The collection houses many works by Nelly Beveridge Gray, including watercolours and rubbings of historic reliefs in Mesoamerica, Europe and Asia. Gray's collection of pre-Columbian ceramics is complemented by works of Nova Scotia ceramists such as Alma and Ernst Lorenzen. Many works from the collection are on display on campus, including commissioned works by John Greer and Matthew Reichertz. Recent acquisitions represent contemporary artists associated with the Nova Scotia College of Art and Design University, such as Gerald Ferguson, Kelly Mark, and Mitchel Wiebe and Lucy Pullen.

Gallery hours are Tuesday to Thursday, 12:00-7:00 p.m. and Friday to Sunday, 12:00-5:00 p.m.

Athletics and Recreation

The Department of Athletics and Recreation organizes and operates a variety of activities, providing an opportunity for all students at Saint Mary's University to participate on a number of different levels. The intramural and recreational programs are designed to promote competition, fitness, fun, recreation, and sportsmanship. Emphasis is placed on participation. The club sports program provides an opportunity for all students to participate and/or compete in sports not included in the varsity program.

Saint Mary's is a member of the Atlantic University Sport (AUS) and the Canadian Interuniversity Sport (CIS). Our varsity teams compete in regularly scheduled league play with other universities in the Atlantic region and non-conference competitions with teams across Canada and in the United States.

Varsity (Men)

Basketball, Cross Country, Football, Ice Hockey, Soccer, Track & Field.

Varsity (Women)

Basketball, Cross Country, Field Hockey, Ice Hockey, Rugby, Soccer, Track & Field, Volleyball.

<p>Club (Men) Baseball, Golf, Rugby.</p> <p>Club (Women) Dance Team, Cheerleading.</p> <p>Intramural (League) Basketball*, Coed Basketball, Coed Soccer, Coed Softball, Coed Volleyball, Touch Football*, Hockey, Men's Soccer, Men's Softball, Volleyball*, and Ultimate Frisbee. *men and women</p> <p>Intramural (Tournament) Badminton, Basketball, 3/3 Basketball, Coed Broomball, Golf, Squash.</p> <p>Recreation (Unstructured) Badminton, Basketball, Hockey, Jogging, Skating, Squash, Table Tennis, Tai Chi, Volleyball, Weight Training, Yoga.</p> <p>Recreation (Instructional) Boxing, BoxFit, Group Exercise Classes, Personal Training, Pilates, Running Clinics, Social Dance, Squash, Step Training, Tai Chi, Walking Clinics, Weight Training, Yoga, Fitness Instructor Certification.</p> <p>On-Campus Facilities The Tower Alumni Arena Huskies Stadium (artificial field and 400 meter track)</p>	<p>1998</p> <p>1999</p> <p>2000</p> <p>2001</p> <p>2002</p> <p>2003</p> <p>2004</p>	<p>Bob Boucher Jim Pineo 1973 Football Team</p> <p>Jamie Bone Elizabeth A. Chard Bob Warner 1964 Football Team</p> <p>Roy Clements Mickey Fox Kathleen Mullane</p> <p>Chris Flynn Elmer MacGillivray Angelo Santucci 1973 Hockey Team</p> <p>Frank Archambault Harold "Babe" Beazley Dianne Chiasson Michael Hornby</p> <p>Al Keith Dr. Greg McClare Larry Uteck 1978 Men's Basketball Team</p> <p>Susan Dunbrack Beazley Les Goodwin Bill Robinson Ross Webb</p>
---	---	---

Saint Mary's Athletics and Recreation Tower was opened in June 1987. This centre houses a double-sided gymnasium with retractable seating, running track, squash courts, conditioning centre, peak performance weight room, group fitness room, sauna, steam room, offices, lounge, locker rooms, sports medicine clinic, and equipment distribution area.

Sport Hall of Fame and Heritage Centre
Saint Mary's University officially opened its Sport Hall of Fame and Heritage Centre in an inaugural ceremony on 14 October 1995.

This long awaited Centre has a permanent home on the 2nd floor of The Tower. As the Centre grows there will be many photographs and numerous articles of sports memorabilia. To realize their achievement of excellence and dedication to Saint Mary's, each year during Homecoming Weekend new athletes, builders, leaders and teams will be inducted in this Sport Hall of Fame.

INDUCTEES

1995	Reverend John J. Hennessey, S.J. Robert G. Hayes
1996	1973 Men's Basketball Team Bob Lahey Reverend Michael O'Donnell, S.J.
1997	Frank Baldwin

Please feel welcome to view the displays during The Tower's operation hours.

Bookstore
Situated on the second floor of the O'Donnell-Hennessey Student Centre, the Bookstore is owned and operated by Saint Mary's University. Our textbook specialists work year-round to provide course-related materials in this convenient location.

The Bookstore also carries supplies, crested clothing and giftware. Our website bookstore.smu.ca has more detailed information about how to find your course-material, operating hours, refund deadlines, as well as our web-catalogue for crested items.

Used Book Program – Choose our used copies to save at least 30%. Current titles re-adopted by instructors are purchased from students for half price during our Used Book Buy-Backs in December, April and August. They are then made available on our shelves at 25% off the new price, and are tax-free. Watch for our advertisements in *The Journal* and on campus posters.

Special Orders – Personal copies of any book in print can be ordered through the Bookstore.

Ring Days – Saint Mary's rings may be ordered at the Bookstore at the following times: Wednesdays 3:30-5:30 pm

in February, March, April, October and November. Watch for campus posters for other special Ring Days during each semester.

Parchment/Diploma Framing – Customized frames are available year-round in two styles, each with crested mattes. Following Spring and Fall Convocations, an on-site framing service is provided jointly with the Alumni Office.

Operating Hours -

September to May: Monday, Thursday, Friday

9:00-4:30

Tuesday, Wednesday 9:00-6:00

June to August: Monday to Friday

9:00-4:30

Extended Hours: At the beginning of each semester see our web-site, flyer, and bookmarks.

Christmas to New Year's – closed

Contact – Telephone 902-420-5562
(customer service, recorded information also available)
E-mail: bookstore@smu.ca

Information Technology Systems and Support

The computing environment consists of over 1,500 workstations (PCs, Macs, Unix) located in faculty, staff offices, in the general access labs and in departmental computer labs. A fibre optic backbone interconnects nine buildings. About 1,500 workstations are directly connected through ethernet to the high speed campus network. Computers on the campus network include Windows, AppleShare file servers, and CD ROM servers. Off-campus locations, such as Saint Mary's at the World Trade Centre, are connected to the campus network. All campus network users have high speed access to the internet. Faculty, students and staff use the internet for a wide variety of applications. Students can review the *Academic Calendar*, apply for admission, add/drop courses, make payments on-line, and determine their exam schedule over the intranet. Electronic-mail is available for campus and internet usage.

The central computing environment includes over 30 systems running HP open VMS, Linux, Sun Solaris, Microsoft Windows, and IBM 50/400. Programming languages are available on Windows including: BASIC C, COBOL, FORTRAN, PASCAL, and JAVA. Workstations in computer labs use Microsoft Windows. Applications include: Maple, Minitab, SPSS, TK Solver, MatLab, MS Office, Visual Studio, and Internet Explorer, JBuilder, G S Viewer, and MSDN. Several survey data bases (Stats. Can.) are on-line.

There are ten general access computer labs and several departmental labs containing over 350 workstations. All micro labs have high speed access to Windows servers for file and printer sharing. Most general access labs are open 24 hours/day, 7 days per week, during the academic year. Lab security is enhanced by an extensive closed circuit TV security system and a 24 hour security desk. A wide range of software is available for statistics, graphics, charting and map drawing, CAD, financial and mathematical applications, word processing. Several types of printers are available including dot matrix and laser.

Easy, fast access to information technology has been incorporated into the entire campus with many network outlets in casual student areas. All buildings have current switch technology at the edge of the network and a high capacity central switch capable of moving data from classrooms, labs, offices to servers at high speeds. Most teaching classrooms have multi-media data presentation equipment, as well as high speed computer access for the instructors' workstations. The current "evergreen" desktop program ensures the PC desktop technology is no older than 3 years in any classroom or lab. This enables the faculty and students to learn on the most current technology possible.

Besides the typical computer hardware and software used for office applications, there is also a wide range of specialized computer systems to handle computer aided design, optical scanning, digitizing/imaging, multi-media, and desk-top publishing.

Information Technology Systems and Support (ITSS) manage the academic and administrative servers and systems, the general access computer labs, the campus network, the classroom media technology, the telecommunications systems, and the Help Desk. They provide installation and repair for most university owned computer equipment. All the main university administrative computer based systems are maintained by them. Tours of information technology facilities, and assistance in using the Alphas and the public access microcomputer labs are also available. The latter is in addition to the assistance available to students through their courses and labs. ITSS provides technical advice relating to the selection and purchase of computer hardware and software. Many computer manuals and pamphlets are produced. Saint Mary's is also involved with several other universities, in providing computer resources for academic and research purposes. For further information, please contact ITSS at 902-420-5480; or e-mail FrontDesk@smu.ca.

International Activities Office

Saint Mary's University is committed to the ongoing process of the "internationalization" and "globalization" of its campus. Priority is placed on developing global competence which is necessary for effective communication and dialogue with people, institutions, governments, and business from other cultures and nations. In addition, the University places emphasis on international contacts and activities which strengthen the competitive position of Saint Mary's in relation to international contracts and projects, sponsored research and employment opportunities for its students.

The role of the International Activities Office is to coordinate the international activities of the University, to serve as liaison with governments, non-governmental organizations and international agencies involved in overseas programming, and to assist in developing and managing the University's international contracts. An important function of this office is to assist academic departments in internationalizing their curricula and in pursuing international contacts.

The International Activities Office is responsible for managing international projects; works in conjunction with the responsible faculty who are involved in a specific international project; and provides administrative and logistical support to the project activities. The Office also assists in coordinating student exchange programs and international group programming.

The International Activities Office is located in The Oaks, 5920 Gorsebrook Avenue, and can be reached at 902-420-5177; fax: 902-420-5530; and e-mail: denis.leclaire@smu.ca or heidi.taylor@smu.ca.

The International Centre

The International Centre located on the third floor of the Student Centre houses the office of the International Student Advisor, the Program Officer; and provides a comfortable meeting space.

The staff at the International Centre provide support, assistance and advice to international students at Saint Mary's and strive to ensure that international students fully participate in university life. The Centre offers a range of services to students, including counselling, orientation, information sessions, and cultural activities.

International Student Advisor: Alana Robb

Phone: 902-420-5436;

Program Officer: Ysaac Rodriquez

Phone: 902-491-8692;

e-mail: international.centre@smu.ca;

web site: <http://www.smu.ca/administration/international>

Office of Instructional Development

In October, 1998, Saint Mary's University established the Office of Instructional Development. The main objective of this Office is the support of teaching and learning both on and off campus. The Office facilitates the on-going work of the Quality of Teaching Committee and is a repository for the Committee's collection of instructional materials. It links the University and its instructors with programs and experts on teaching and learning throughout the province, in Canada and internationally. Through workshops, newsletters, mentoring and access to experts and expertise, the Office provides opportunities for professional development in teaching to full and part time faculty.

Patrick Power Library

The Patrick Power Library is the main research centre at Saint Mary's, dedicated to meeting the needs of the University's students, faculty and staff. It provides approximately 400,000 books, journals, electronic databases, periodical indexes, corporate reports, microforms, rare books and special collections as well as dozens of computers for student use. Most of our electronic resources are available either through the University's computer network or even off-campus, via our web-site, providing 24 hours access. Because of its membership in the Novanet Library Consortium, Saint Mary's students can also borrow from the collections (over two million items) or other universities in Nova Scotia. The Novanet Express service can provide students with books or photocopies of journal

articles from any library within the consortium. The library is also home to the Ferguson Library for printed handicapped students and the University Archives, the official repository of historical documents related to the University and its areas of research.

In the library you will find quiet study areas as well as knowledgeable staff who are eager to help you get the most out of its resources and services. Reference service is available more than 90 hours per week during each semester. Drinks and snacks in covered containers are allowed and there are also separate rooms available for group work, helping to make the library an informal and welcoming space where you can do your research in a variety of environments. An extensive information literacy program offers classroom or individual instruction for students to help them learn how to use both traditional and electronic information sources. During semester the library is open seven days a week, and most evenings until 11p.m.

For more information, call (902) 420-5544 or go to www.smu.ca/library.

Observatory

The Rev. Michael W. Burke-Gaffney Observatory at Saint Mary's University was opened in 1972. It is named for the late Professor Emeritus, Rev. Michael W. Burke-Gaffney, S.J., astronomer, engineer, and educator, who was at Saint Mary's University from 1940 until his death in 1979.

The revolving aluminium dome measures five metres in diameter and rests upon an elevated pad atop the 23-storey academic-residence building. The Observatory's 0.4-metre reflecting telescope, among the most powerful in Eastern Canada, is used primarily for student instruction. The telescope is controlled by a computer located in the adjoining observer's office. A second computer operates an electronic camera capable of recording stellar spectra, or images of star clusters and galaxies. You can learn more about the Observatory by contacting its Web site at <http://apwww.smu.ca>.

The Observatory is open to the general public for viewing sessions on the first and third Saturday evening of every month, weather permitting. Further information is available from the Department of Astronomy and Physics, or by telephoning 902-496-8257.

Student Services

At Saint Mary's University the Department of Student Services includes the Office of the Director, Chaplaincy, Counselling Services, Atlantic Centre of Support for Students with Disabilities, Financial Aid Counselling, Health Services, Student Employment Centre, University Residences and Food Services, International Student Advising, and Child Care Services. Student Services provides a wide range of services and programs that support student development.

Chaplaincy

Because of its traditional commitment to Christian education, Saint Mary's University continues to emphasize personal and social values derived from the experience of Christian civilization. Its students and teachers represent a diversity of cultural and religious backgrounds and the University encourages participation in activities related to all faiths.

The Roman Catholic chaplaincy is found in Room 145 of the Loyola Residence; weekday Mass is provided in the Loyola Chapel. In addition, a special University Mass is held every Sunday in Canadian Martyrs' Church located on the edge of campus. Other faith services are available in nearby churches, synagogues, and mosques.

Pastoral guidance is available from the University Chaplain and from clergymen of all major denominations.

Counselling Services

Saint Mary's University Counselling Centre staff provide free, professional counselling services to full and part-time Saint Mary's University students. To make an appointment, students may drop by the Office (4th Floor, Student Centre) between 9:00 a.m. and 5:00 p.m., Monday to Friday, or call 420-5615. Students may come to Counselling Services on their own, or they may be referred by a member of the University or outside community.

A variety of services are offered through Counselling Services. While some students request counselling to deal with personal problems, others participate in groups for support in dealing with stress and loneliness, to improve their study skills, or define their career goals. The following describe the various services available through Counselling.

Personal Counselling

Students are seen individually for assistance with a range of personal problems including anxiety, depression, difficulties in relationships, family conflicts, sexual orientation, poor concentration, drug and alcohol abuse, eating disorders, and other issues. Both male and female counsellors work with students to help them feel better about themselves and develop healthy ways of achieving their goals.

Educational Counselling

Educational counselling is useful for students on academic probation or those who need advanced study skills education.

Career Counselling. Students are seen individually and in groups for assistance with career planning, choosing an education direction and increasing their occupational knowledge. Self-assessment exercises include: COPS, COPES, Strong Interest Inventory, and Myers-Briggs Type Indicator; and career cruising.

Volunteer Opportunities:

SMU DRAFT (Drink Responsibly and Feel Terrific) Team (5th Floor, Students Centre: 496-8226 or draft.team@smu.ca). Volunteers promote a responsible alcohol use message on campus through educational sessions and social activities.

Saint Mary's University Student Peers (SMUSP)

The student peers are trained volunteers working in the SMUSP Office (4th Floor, Student Centre). Volunteers provide all students with information on study skills, career resources, campus services and student services programs. Interested students should drop by the SMUSP Office during office hours or call 496-8245 or e-mail: student.peers@smu.ca.

Sexual Harassment/Sexual Assault

To ensure and facilitate the pursuit of knowledge, Saint Mary's University is committed to the provision of an equitable environment for work and study for all University Community members. Sexual harassment/sexual assault can seriously undermine the fulfilment of this primary goal by destroying the trust that is necessary for personal and educational freedom. In 1986, the Senate established procedures to discourage the presence of sexual harassment through education, and to investigate and resolve complaints of sexual harassment expeditiously and with fairness to all concerned. In 1995, Senate revamped this policy to include Sexual Assault.

Saint Mary's provides an advisory service to all members of the University Community. The Office of the Conflict Resolution Advisor is located on the fourth floor of the Students Centre. The Advisor is available by appointment by calling 420-5113. Inquiries outside these hours can be made through Student Services at 420-5615.

The Advisor is available to answer all inquiries concerning sexual harassment and to provide educational programs for all campus groups. The Advisor is also available to consult with concerned individuals on a confidential basis, to suggest and explore a number of informal problem solving methods. She is also able to mediate formal disputes, and will advise complainants and respondents of correct procedures if involved in an investigation of sexual harassment. All inquiries are welcome.

Atlantic Centre of Support for Students with Disabilities

The Atlantic Centre, located on the third floor of the O'Donnell-Hennessey Building, assists in transforming the campus into an environment that is accessible to all students. Services through the Atlantic Centre consist of a variety of supports and facilities designed to enhance the educational experience for students with disabilities attending Saint Mary's.

The Atlantic Centre staff are qualified to provide counselling services to students with disabilities ranging from personal to academically related issues. They are also available to faculty members for advice and intervention on behalf of faculty or students.

A variety of reading enhancement and other technologies along with a knowledgeable staff enable students with motor impairments, Learning Disabilities and Sensory deficits to gain access to academically related materials that most students take for granted. Visual Language Interpreting and the use of augmentative technologies offer a Total

Communications approach for those students who are Deaf or Hard-of-Hearing.

The LIBERATED LEARNING PROJECT is a revolutionary approach in the use of Speech Recognition. This world first initiative uses Speech Recognition in the classroom for real-time display of text and follow-up production of detailed and accurate class notes for those students who, for physical or sensory reasons, cannot take notes for themselves. Further information on the LIBERATED LEARNING PROJECT is available on the web at: www.liberatedlearning.com.

Traditional Note Taking with No Carbon Required paper is also provided by a dedicated group of student volunteers who are administered through the Atlantic Centre.

The Atlantic Centre, the Fitness and Recreation Centre, the Ferguson Tape Library for Print-handicapped Students, and other features such as accessible buildings, demonstrate the commitment of Saint Mary's to a totally accessible educational experience.

Please visit us on the web at: www.stmarys.ca/administration/student_services/atlcentr/atlantic.html. Alternatively, you may call us at (902) 420-5452 (Voice)/(902) 425-1257 (TTY).

Financial Aid Office

Please refer to Section 6 of this *Academic Calendar* for further details on the following services offered through the Financial Aid Office.

- **Scholarships and Bursaries**
- **Provincial Government Student Aid Programs**
- **Budget Counselling**
- **International Students**
(cost of education letters)

Student Health Services

Student Health Services is located on the 4th floor of the Student Centre and is a scent-free clinic. It provides students with the same service they would receive from their family doctor. Referrals to specialists may be made through the clinic. Bloodwork is done by the nurse by appointment (496-8778).

Office hours are 9 a.m. to 12 noon and 1:00 to 5:00 p.m., Monday through Friday. Details on when the doctors are available in the clinic are available on request. After 6:00 p.m., the nurse can be reached by cell phone (471-8129) as well as all weekend for medical problems or information. For a medical emergency, please go directly to the Halifax Emergency Department at the QEII, 1796 Summer Street. Confidentiality is guaranteed.

Medical Insurance

Each year the Students' Association and the Health Plan Committee decide which insurance company will carry the Student Health Plan. The Students' Association administers the plan through the Student Health Plan Office (Room 524 – 5th floor Student Centre). Students with comparable

coverage may opt out of the plan by signing a medical waiver and providing proof of their own coverage. The deadline to complete a waiver is September 30, for first semester enrolments and January 31st for second semester enrolments. Waiver forms are available at the Health Plan Office.

1. Full-Time Canadian Students and Non-Canadian Students

An extended health care plan arranged by the Students' Association, in consultation with the Health Plan Committee, is compulsory for all full-time Canadian students (3 or more courses), and all full and part time registered Non-Canadian students.

a.) Full-Time Canadian Students

Full-time Canadian students should have coverage by, or have access to, provincial hospital and medical care. It is the responsibility of the student to ensure that he or she is in good standing with his/her provincial health care system. For premium amounts, see Section 6 of this *Calendar*.

b.) Non-Canadian Students

The Student Health Plan coverage for Non-Canadian students consists of two parts:

Provincial health care coverage (e.g. hospital) and, Supplemental coverage (e.g. prescription drugs and physiotherapy).

Students not covered by provincial health care will be insured under the Student Health Plan's comprehensive health and hospital coverage. If Non-Canadian students have provincial health insurance (such as MSI) they may waive that portion of the health plan by October 31 by visiting the Health Plan Office (Room 524 Student Centre) and completing a waiver form. Non-Canadian students who waive the provincial health care portion will still be covered under the supplemental portion of the health plan unless they have waived that portion as well.

For premium amounts, see Section 6 of this *Calendar*. For information on how to be eligible for Nova Scotia provincial health care (MSI) please call MSI at 902-468-9700.

c.) Family Coverage

Students covered by the Students' Association health plan may add their spouse and eligible dependents to the health plan by completing an addition of family form. These forms are available at the Student Health Plan Office (Room 524 Student Centre) and must be completed by September 22nd. Eligible January enrolments must complete this form by January 19th.

For premium amounts see the Financial Information section of this calendar.

2. Part-Time Canadian Students

Part-time Canadian students are not eligible for the Students' Association Health Plan coverage. For additional

information on medical premiums, benefits, waivers, opt-ins, claims processing, family coverage and general inquiries please contact the SMUSA (Students Association) Student Health Plan Office (Room 524 Student Centre).

Tel: (902) 496 8754 – Email:
healthplan.smusa@stmarys.ca

Student Employment Centre

Saint Mary's administers a Student Employment Centre to assist students in finding full-time and part-time employment.

In addition to professional guidance to graduate and undergraduate students, the Employment Centre provides current labour market news, career information, and assistance in preparing resumes, preparing for interviews, and completing job applications.

Personal interviews are also arranged with representatives from many companies and organizations who visit the campus each year to meet prospective employees. On-campus interviews generally begin in early October; hence students are encouraged to register early.

Students are also encouraged to visit the Centre regularly as job opportunities are posted regularly regarding part-time summer and casual employment.

The Employment Centre is located on the 4th Floor of the Student Centre and is open from 9:00 a.m. to 5:00 p.m.

University Residences

The University does not require students to live in residence; however, it highly recommends residence life and encourages all first year students to reside on campus. Living in residence puts you at the centre of University life. Friends, activities, advice and support are right there on your doorstep. Saint Mary's University is committed to providing a living environment that is comfortable, secure and conducive to the academic and personal growth of students. The residences are much more than a place to eat, sleep and study; they are a great place to develop lasting friendships and share social and educational activities with people of different backgrounds.

There are three residences. The Edmund Rice Building is coed and has 17 floors of apartments, each with two double bedrooms, kitchen, bathroom and living room. Students in Rice can either opt for a meal plan or cook for themselves. The Loyola Residence houses men and women and has 19 floors with single and double rooms in suites for six with shared bathrooms. Students must purchase a meal plan. Vanier House is a women's residence which provides accommodation in suites containing two double and two single rooms with shared washrooms. There is a common lounge on each floor. Residents must purchase a meal plan. All residence rooms have basic furniture and drapes; students need only bring the personal items that will turn a room into a home. All rooms are wired for high speed internet, cable, and telephones.

Family/Graduate Housing (Ignatius Loyola Residence)

One and two bedroom unfurnished apartments are available for student families on a 12-month lease basis. These are available to married students, single parents, graduate and mature students.

There are also Senior Suites which are designed for students in their senior year who want the convenience of living on campus with more privacy. These suites feature private, lockable single bedrooms in an apartment-like unit with a self-contained bathroom and kitchenette. They include the latest technological upgrades. Further information is available from the Director of University Residences.

Application for Residence Accommodation

Further information and applications for residence are available from the Director of University Residences.

Fees for accommodation in each of these residences and for various food plans are specified in the Financial Information section of this *Calendar*.

Food Service

The University provides a complete food service program during the academic year. Food Service outlets include the Residence Cafeteria, Student Centre Cafeteria, Easy Go, Convenience Store, and two Tim Horton outlets.

Meal Plans

Residents of Vanier House and Loyola Residence are required to purchase a meal plan.

The Declining Balance Plan

The Declining Balance Plan features a computerized meal card with a declining balance. With each food purchase you make, the amount will be deducted from your account balance. You may receive an update of your balance at any cashier outlet.

The Residence Dining Room features an a-la-carte food service program. At other outlets on campus service is a-la-carte. Fees for meal plans are specified in the Financial section of the *Calendar*. (Meal plan features are reviewed annually in consultation with students and hence may vary from year to year.)

Information describing the Declining Balance Meal Plan is sent to residence students each summer. Inquiries may be directed to the Food Services Office at 420-5604.

International Student Advising

The International Student Advisor (ISA) provides information and referral services in response to questions or problems international students may encounter during their adjustment to a new country and university. The ISA organizes orientations and social programs for international students. International students with questions, financial concerns, or immigration problems are encouraged to meet with the ISA. The ISA Office is located in the International Centre, Burke Building, and students are encouraged to drop in or call 420-5436.

Day Care Service

The University has a day care service on campus which accommodates 36 children. A limited number of subsidized spaces are available to qualified applicants. Children must be at least 18 months of age to be admitted. For more information, contact the Director of Child Care Services at 902-425-8263.

U-Pass

The U-Pass is a special transit pass that provides full-time students with unlimited access to Metro Transit's buses and ferries for the academic year, from September through April.

It is mandatory for all full-time students. Part-Time students are not eligible. There is no opt-in or opt-out for this program.

Student Discipline

a. Student Behavior

Saint Mary's University, in accepting students, takes it for granted that they are prepared to engage seriously in the pursuit of learning within an ordered academic institutional environment. Rules and regulations which affect student behavior are intended to ensure that the quality of life of students and of those associated with them in the work of the University is respected and preserved.

The largest measure of responsibility for maintaining standards of conduct rests with the students themselves. The University reserves the right, however, to counsel, admonish, limit the activities of, impose penalties on, or dismiss any student or group of students whose conduct violates normally accepted standards of civilized behavior or is in conflict with the University's objectives, policies, rules and regulations.

b. Discipline System

The Senate-approved disciplinary system operates under the general responsibility and direction of the Director of Student Services. The Saint Mary's University's Discipline Code was officially passed by the Academic Senate on 22 September 1995. Copies can be requested from the Director of Student Services. Several administrative officers of the University receive complaints, examine the evidence, and make decisions with respect to the disposition of cases. If there are appeals against these decisions, they are heard by the three-person Student Disciplinary Appeal Board. Decisions can involve monetary fines, suspensions, or expulsion from the University.

c. Authority of the President of the University

In addition, the Saint Mary's University Act empowers the President of the University to deal directly with matters relating to student discipline. The President reserves the right to deal with academic and non-academic offences on an ad hoc basis and to determine the appropriate process in each case.

d. Students and parents (or guardians) of students are advised that Saint Mary's University does not agree to accept custody, guardianship or responsibility for any student, whether under the age of 19 or otherwise. The

University is not responsible for acts or omissions of any student.

University Security

The maintenance of order, conduct, and safety on campus is the responsibility of University Security. Under the supervision of the Manager, University Security, this department includes full-time security officers, a contracted force of Canadian Corps of Commissionaires and Campus Security (student component) composed of full-time Saint Mary's University students. As well, in partnership with Saint Mary's University's Students Association, a drive home service, the Husky Patrol, is provided to the University Community. Interested students may apply for a position with University Security by forwarding a resume to the office of the Manager, University Security.

The student component of University Security provides students with an opportunity to obtain valuable experience in the field of security and people management skills, as well as providing funds to defray their education costs.

The Manager, University Security, can be contacted at 902-420-5578; by fax: 902-420-5115; or by e-mail: bpromaine@smu.ca.

Writing Centre

The Writing Centre was established in 2003 with the mandate to promote and support the development of strong academic literacy by all Saint Mary's students. The Writing Centre also provides consultation and support to faculty, which includes regular workshops on developing writing curriculum and pedagogical methods.

The Centre is staffed by a Director (Ms. Pat Saunders); an Office Co-ordinator; and trained Writing Assistants who provide facilitative approaches to the writing process. Free, scheduled appointments offer individualized aid to students directed at developing strong writing and critical reading and thinking strategies. Services are offered to all students, at any level of ability, and at any stage of their writing process. In addition, the Centre collaborates with other Saint Mary's services and academic units, and works with the community through outreach programs designed to promote literacy and communication skills.

The Centre is located in the Burke Building, Room 115, and can be reached at www.smu.ca/academic/writing-centre or by telephone: 902-491-6201.

Women's Centre

The aim of this Centre is to educate the University community about women's issues and feminism and to celebrate women through ongoing initiatives and special events. The Centre aims to provide material resources and service referrals to students, staff and guests of the University, a safe space for women and a space for women to organize on behalf of a variety of political and social causes. Further, the Saint Mary's Women's Centre aims to advocate with and on behalf of women on campus

pertaining to a diversity of contemporary issues and challenges.

Saint Mary's University Students Association, Inc.

Incorporated in 1966, the Saint Mary's Students' Association (SMUSA) is the official representative organization of the students of Saint Mary's University. All registered full and part-time students, paying student fees, are members of this organization.

The goal of the Association is to promote and represent the interests of its membership. Through its services, representation, and advocacy, SMUSA works with the University on academic issues, lobbies government through its affiliation with provincial and federal organizations, and ensures the coordination of artistic, literacy, educational, social and recreational activities intending to promote the highest quality of life for Saint Mary's students.

The Association is governed by an 18 member Students' Representative Council, which includes 5 executive members (President, VP Internal Affairs, VP Academic, VP External Affairs and VP Finance) and 13 councilors elected by the student body. Through its various service departments, SMUSA also employs over 100 student staff. All students are encouraged to get involved by running for Council, seeking employment, or volunteering in the many other capacities of SMUSA.

Although SMUSA is the official representative body of the students of Saint Mary's University, there are also many clubs and societies and other organizations students can get involved with that are funded and/or governed by the Association.

In addition to involvement opportunities, SMUSA also offers many services that students can take advantage of. We operate the Gorsebrook Lounge and liquor services; the Information Desk; our Husky Patrol Safe Drive program; the SMUsafe Safe Walk program; the Marketing Department and Advertising Department; the Communications Department; we produce the Yearbook and we also coordinate Orientation Week and Winter Carnival activities along with other programmed events throughout the year. One of SMUSA's most significant events is the annual Charter Day Awards Night which honors and recognizes those students, student groups and faculty who have made outstanding contributions to student life and teaching throughout the year. SMUSA, Inc. also offers a U-Pass for the transit system of the area. Contact SMUSA, Inc. for further information.

SMUSA places a strong emphasis on ensuring the academic success of its members. In mid-November, a day of advising known as the **Academic Fair** brings together as many as possible of the University's services which seek to aid students in making wise and prudent decisions relating to their educational and career ambitions. This event is free and open to all students who would prefer to talk to a real person rather than read their departmental "FAQ's".

For more information, please visit SMUSA's offices located on the 5th floor of the Student Centre; contact SMUSA by phone at (902) 496-8700; or visit our website at www.smusa.ca.



Zach Churchill, President of SMUSA, speaks at the launch of the Random Acts of Kindness (RAK) Squad Litter Clean-up on December 5, 2005.

**Academic Officers and Faculty;
Chancellors, President, Deans, Professors,
And Athletic Director Emeritus/Emerita;
Administrative Officers;
Awards To Faculty And Staff**

**Section
9**

Academic Officers and Faculty

Academic Officers

Vice-President, Academic and Research

Murphy, Terrence, B.A. (Saint Mary's), M.A. (Fordham), Ph.D. (Newcastle-Upon-Tyne), Professor of Religious Studies

Faculty of Arts

Enns, Esther E., B.S.L. (with high distinction) (Laurentian), M.A. (McMaster), M. Ed., Ph.D. (Toronto), Professor German

Hulan, Renee, B.A. (Acadia), M.A. (Guelph), Ph.D. (McGill), Associate Dean & Associate Professor of English

Naulls, Donald J., B.A. (Hons.), M.A. (Wilfrid Laurier), Ph.D. (York), Associate Dean and Associate Professor of Political Science

Faculty of Commerce

Wicks, David, B.Comm. (Carleton), M.B.A., Ph.D. (York), Acting Dean and Associate Professor of Management

Power, Jeffrey, B.Comm. (Hons.), M.B.A. (Saint Mary's), Ph.D. (Purdue), C.M.A., F.C.M.A., Acting Associate Dean and Assistant Professor of Accounting

Fullerton, Gordon L., B.Comm. (Mount Allison), M.B.A. (Dalhousie), Ph.D. (Queen's), Acting Associate Dean-Masters Programs and Associate Professor of Marketing

Faculty of Science

Richardson, David H. S., B.Sc., M.Sc. (Nottingham), M.A., Sc.D. (Trinity College, Dublin), D.Phil. (Oxford), Dean and Professor of Biology

Faculty of Education

Enns, Esther E., B.S.L. (with high distinction) (Laurentian), M.A. (McMaster), M. Ed., Ph.D. (Toronto), Acting Dean and Professor of German

Faculty of Graduate Studies and Research

Vessey, J. Kevin, B.Sc. (Hons.), M.Sc. (Dalhousie), Ph.D. (Queens), Dean and Professor of Biology

Faculty

Abdul-Masih, Marguerite, B.A. (Bryn Mawr College), M.A., Ph.D. (Johns Hopkins University), M.Div. (Saint Michael's College, Toronto), S.T.L. (Regis College, Toronto), Ph.D. (Saint Michael's College/Regis College, Toronto), Associate Professor of Religious Studies

Agbeti, Micahel, B.Sc. (Hons.) (Ghana), M.Sc. (Brock), Ph.D. (Queens), Adjunct Professor of Biology

Akbari, Ather H., B.Sc., M.B.A. (Karachi), M.A., Ph.D. (Simon Fraser), Professor of Economics

Al Zaman, Ashraf, B.S., B.A., M.A. (Ohio University), M.Sc. in Eco, Ph.D. (KGSM, Purdue), Assistant Professor of Finance

Amaratunga, Carol A., B.A., M.Sc. (Guelph), Ph.D. (Toronto), Adjunct Professor of International Development Studies

Amirkhalkhali, S. Samad, B.Sc. (National University of Iran), M.A., Ph.D. (Dalhousie), Associate Professor of Management Science

Amirkhalkhali, Saleh S., B.A. (Shiraz), M.A., Ph.D. (Dalhousie), Professor and Chairperson of the Department of Economics

Anderson, Bruce, B.Sc. (Hons.) (Dalhousie), B.A. (Distinction) (Mount Saint Vincent), M.T.S. (Harvard), LL.B. (Dalhousie), Ph.D. (Edinburgh), Associate Professor of Commercial Law

Anis, Azza, Adjunct Professor in Women's Studies

Ansell, Robert N., B.A. (Cambridge), Ph.D. (Glasgow), Assistant Professor of Philosophy

Ansong, Granville, B.A. (Hons.) (Ghana), M.A. (Queen's), M.Acc. (Waterloo), Ph.D. (Queen's), Assistant Professor of Accounting

Arya, Pyare L., B.A., M.A., Ph.D. (Delhi), Professor of Economics

Asp, Elissa, B.A., M.A., Ph.D. (York), Associate Professor of English

Attig, Najah, B.A. (I.H.E.C.), M.B.A., Ph.D. (Laval), Assistant Professor of Finance

Austin, Roby A., B.Sc., M.Sc., Ph.D. (McMaster), Assistant Professor of Astronomy and Physics

Baker, Janet, B.A., M.A. (Queen's), Ph.D. (Dalhousie), Associate Professor of English

Barber, Colleen A., B.Sc. (Guelph), M.Sc. (Manitoba), Ph.D. (Queen's), Associate Professor of Biology

Barbosa, Rosana, B.A. (Universidade Santa Ursula), M.A., Ph.D. (Toronto), Assistant Professor of History

Barrett, L. Gene, B.A. (King's College), M.A. (Dalhousie), D.Phil. (Sussex), Professor of Sociology and Criminology

Bartlett, Brian, B.A. (New Brunswick), M.A. (Concordia), Ph.D. (Montreal), Professor of English

Bateman, David H., B.B.A. (New Brunswick), M.B.A. (Dalhousie), C.A., Associate Professor of Accounting

Beaudoin-Lietz, Crista, B.A., M.A., Ph.D.(Memorial), Assistant Professor of Anthropology and Linguistics

Beaulé, Sophie, B.A., M.A., Ph.D. (McGill), Assistant Professor of French

Beaupré, Charles P., B.A., M.A., Ph.D. (McGill), Assistant Professor of Japanese and Chinese

Bell, Sandra J., B.A., M.A. (Western Ontario), Ph.D. (Toronto), Associate Professor of Sociology and Criminology; Graduate Coordinator of Criminology

Bennett, Philip, B.Sc. (Simon Fraser), M.Sc., Ph.D. (British Columbia), Adjunct Professor of Astronomy and Physics

Bernard, Paul R., B.A. (Providence College), M.A.T. (Assumption College), Ph.D. (Pennsylvania State), Associate Professor of French

Bjornson, Susan, B.Sc. (Hons.) (Guelph), Ph.D. (Alberta), Assistant Professor of Biology

Black, David, B.A. (Hons.) (Trent), M.A., Ph.D. (Dalhousie), Adjunct Professor in International Development Studies

Boabang, Francis, B.A., M.Sc. (Ghana), M.A. (Saskatchewan), Ph.D. (Simon Fraser), Professor of Finance; Coordinator of Master of Finance Program

Bonnycastle, Kevin D., B.A. (Simon Fraser), M.A. (Toronto), Ph.D. (Simon Fraser), Assistant Professor of Sociology and Criminology

Borras, Saturnino M., B.A. (Santo Tomas. Manila), M.A., Ph.D. (ISS, The Hague). Canada Research Chair in International Development Studies.

Bowlby, Paul W. R., B.A., M.A., Ph.D. (McMaster), Professor and Chairperson of the Department of Religious Studies

Boyle, W. Peter, B.Sc., Ph.D. (Queen's, Belfast), Professor of Engineering

Brodgers, Hugh, B.Sc. (Hons.) (Acadia), M.Sc. (Memorial University of Newfoundland), Ph.D. (New Brunswick), Associate Professor of Biology

Butler, Malcolm N., B.Sc. (Hons.) (McMaster), Ph.D. (California Institute of Technology), Professor of Astronomy and Physics and Chairperson, Department of Astronomy and Physics

Byers, Michele, B.F.A. (Concordia), B.S.W., M.S.W. (McGill), Ph.D. (Toronto) Associate Professor of Sociology

Cameron, James E., B.A. (Queens), M.A., Ph.D. (York), Associate Professor of Psychology

Catano, Victor M., B.S. (Drexel), M.S., Ph.D. (Lehigh), Professor and Chairperson of the Department of Psychology

Cauville, Joelle, M.A. (Paris), M.A., Ph.D. (British Columbia), Professor of French; Coordinator for Film Studies Committee

Chamard, John C., B.A. (Saskatchewan), M.B.A. (Harvard), Ph.D. (New England, New South Wales), Professor of Management and Coordinator of Master of Management of Co-operatives and Credit Unions Program

Charles, Tony, B.Sc. (Hons.) (Carleton), Ph.D. (British Columbia), Professor Management Science and Environmental Studies

Cheng, Thomas T., B.Comm. (Sir George Williams), M.B.A. (Concordia), Ph.D. (Missouri), C.A., C.I.A., C.M.A., F.C.M.A., Professor and Chairperson of the Department of Accounting

Chesley, G. Richard, B.Comm. (Mount Allison), M.A., Ph.D. (Ohio State), Professor of Accounting

Chorney, Tatjana, B.A. (Hons.) (York), M.A., Ph.D. (Toronto), Assistant Professor of English

Christiansen-Ruffman, Linda, B.A. (Hons.) (Smith College), Ph.D. (Columbia), Professor of Sociology

Clarke, David, B.Sc., M.Sc. (Queen's), Ph.D. (New Mexico), Professor of Astronomy and Physics

Codignola, Luca, Adjunct Professor of History

Cone, David, B.Sc., M.Sc. (Guelph), Ph.D. (New Brunswick), Professor of Biology

Conrad, Catherine T., B.A. (Saint Mary's), M.E.S., Ph.D. (Laurier), Associate Professor of Geography

Conrad, Nicole, B.A. (NONS.) (Saint Mary's), M.A., Ph.D. (McMaster), Assistant Professor of Psychology

Cottrell, Barbara, Adjunct Professor in Sociology and Criminology

Creelman, Valerie, B.A. (Hons.) (Mount Saint Vincent University), M.A. (Dalhousie), Ph.D. (Waterloo), Assistant Professor of Communications

Crocker, Diane, B.A. (Memorial), M.A., Ph.D. (York), Assistant Professor of Sociology and Criminology

Crooks, Shelagh, B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Edinburgh), Associate Professor of Philosophy

Dai, Jie, B.Sc., M.A. (Nankai), MBA, Ph.D. (Laval), Assistant Professor of Finance

Dalton, Anne M., B.S., B.Ed. (Conjoint) (Memorial), M.A. (Fordham), Ph.D. (Catholic University of America), Associate Professor of Religious Studies

Dang, Vinh, B.Comm. (Saint Mary's), M.A. (McMaster), Lecturer in Economics

Dansereau, Suzanne, B.A., M.A. (McGill), Ph.D. (Québec), Assistant Professor of International Development Studies

Dar, Atul A., B.A. (Hons.), M.A. (Delhi), M.A., Ph.D. (McMaster), Professor of Economics

Darley, James A., B.A., M.Sc., Ph.D. (Western Ontario), Professor of Psychology

Das, Hari, B.Comm. (Madras), M.B.A (Indian Institute of Management), M.Sc., Ph.D. (British Columbia), A.I.C.W.A., Professor of Management

Davis, Bernard E., B.S., Ph.D. (Massachusetts Institute of Technology), Associate Professor of Education

Davis, Stephen A., B.A. (New Brunswick), M.A. (Memorial), D.Phil. (Oxford), Professor and Chairperson of the Department of Anthropology

Dawson, Robert J. M., B.Sc. (Hons.) (Kings College, Dalhousie), Cert. of Advanced Study in Mathematics, Ph.D. (Cambridge), Professor of Mathematics and Computing Science

Day, Arla L., B.A. (Manitoba), M.A.Sc., Ph.D. (Waterloo), Associate Professor of Psychology and Coordinator of the Graduate Program in Psychology

Dayle, Jutta, B.A. (Hons.) (Saint Mary's), M.A., Ph.D. (New Mexico), Adjunct Professor of Anthropology

Deupree, Robert, B.A. (Wisconsin), M.S. (Colorado), Ph.D. (Toronto), Professor of Astronomy and Physics; Chairholder, Canada Research Chair in Astrophysics; and Director of Saint Mary's University Institute of Computational Astrophysics

Dixon, Paul S., B.A. (New Brunswick), M.Math., Ph.D. (Waterloo), Associate Vice President (Enrolment Management), Registrar and Professor of Management Science

Doak, Ervin J., B.Comm. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Toronto), Professor of Economics

Dobrowolsky, Alexandra Z., B.A. (Hons.) (Toronto), M.A. (Dalhousie), Ph.D. (Carleton), Associate Professor of Political Science

Dodds, J. Colin, B.A. (Open University), B.Sc. (Hull), M.A., Ph.D. (Sheffield), President and Professor of Finance

Dong, Zhongmin, B.Sc. (Shaanxi), M.Sc. (Peking), Ph.D. (Ottawa), Associate Professor of Biology

Doucet, Marc, B.A. (Moncton), M.A., Ph.D. (Ottawa), Assistant Professor of Political Science

Driscoll, Catherine, B.A. (Hons.) (Toronto), M.B.A. (Dalhousie), Ph.D. (Queen's), Associate Professor of Management

Egiebor, Nosa O., B.S. (Benin, Nigeria), M.S. (Manchester), Ph.D. (Queen's), Canada Research Chair in Environmental Studies and Professor of Chemistry

Elson, Clive M., B.Sc. (Toronto), Ph.D. (Queen's), Professor of Chemistry

Enns, Esther E., B.S.L. (with high distinction) (Laurentian), M.A. (McMaster), M. Ed., Ph.D. (Toronto), Dean of Arts, Acting Dean of Education and Professor German

Erhard, Nancie, B.A. (Saint Mary's), M.T.S. (Atlantic School of Theology), M.Phil., Ph.D. (Union Theological Seminary), Assistant Professor of Religious Studies

Erickson, Paul A., B.A. (Michigan), M.A. (Indiana), M.A. (Wayne State), Ph.D. (Connecticut), Professor of Anthropology and Coordinator of Forensic Science

Esonwanne, Uzoma, B.A. (Nigeria), M.A., Ph.D. (New Brunswick), Associate Professor of English

Farrell, Anthony J., B.A., M.A. (California), Ph.D. (Princeton), Professor of Spanish

Farrell, Ellen, B.P.R. (Mount Saint Vincent), M.B.A. (Saint Mary's), Ph.D. (Nottingham), Assistant Professor of Management

Faseruk, Alex, B.A. (Queen's), B.Comm., M.B.A. (Dalhousie), D.B.A. (Kentucky), Adjunct Professor, Executive Master of Business Administration Program

Finbow, Arthur S., B.Sc., M.A. (Dalhousie), Ph.D. (Washington), Associate Professor of Mathematics and Computing Science

Finbow-Singh, Wendy, B.Sc. (Saint Mary's), M.Sc. (Dalhousie), Ph.D. (Calgary), Assistant Professor of Mathematics and Computing Science

Finden, Walter, B.Sc., M.Sc., Ph.D. (Waterloo), Associate Professor of Mathematics and Computing Science

Fisher, Maryanne, B.A. (Hons.) (York), M.Sc. (McMaster), Assistant Professor of Psychology

Fitzgerald, Patricia A., B.B.A. (St. Francis Xavier), M.A. (North Dakota), Ph.D. (Northern Colorado), Professor of Management

Fleming, Mark, M.A., M.Sc. (Aberdeen), Ph.D. (The Robert-Gordon University, Aberdeen), Assistant Professor of Psychology

Foellmer, Matthias, B.Sc./German Dip. (Free University, Berlin), Ph.D. (Concordia), Assistant Professor of Biology

Foster, Michael E., B.A. (Hons.), M.A., Ph.D. (Dalhousie), Adjunct Professor of Economics

Francis, Lori, B.Sc. (St. Francis Xavier), M.Sc. (McMaster), Ph.D. (Guelph), Assistant Professor in Psychology

Freeman, Kirrily, B.A. (Guelph), M.A. (Edinburgh), Ph.D. (Waterloo), Assistant Professor of History

Fullerton, Gordon L., B.Comm. (Mount Allison), M.B.A. (Dalhousie), Ph.D. (Queen's), Acting Associate Dean (Masters Programs) and Associate Professor of Marketing

Gamble, Donald S., B.Sc., M.Sc. (Dalhousie), Ph.D. (Buffalo), Adjunct Professor of Chemistry

Gannett, Lisa A., B.Sc., M.A., Ph.D. (Western Ontario), Assistant Professor of Philosophy

Gaon, Stella, B.A., M.A. (Concordia), Ph.D. (Toronto), Assistant Professor of Political Science

Giles, Philip T., B.Sc. (Hons.), M.Sc. (McMaster), Ph.D. (Calgary), Associate Professor and Chairperson of the Department of Geography

Gilin, Debra A., B.A. (Northern Michigan), Ph.D. (Missouri), Assistant Professor of Psychology

Gorman, Barry F., B.Comm. (Saint Mary's), M.B.A. (Dalhousie), Ph.D. (Bath), C.A., T.E.P., Professor of Accounting

Gregory, Janet, B.A.Sc. (Waterloo), B.Ed., M.Sc., Ph.D. (Dalhousie), Associate Professor of Information Systems

Guenther, David, B.Sc., M.Sc. (Simon Fraser), Ph.D. (Yale), Professor of Astronomy and Physics

Hahn, Joseph M., B.S., B.A. (Texas), Ph.D. (Notre Dame), Canada Research Chair in Computational Astrophysics and Associate Professor of Astronomy and Physics

Haigh, Elizabeth V., B.Sc., M.Sc. (Alberta), Ph.D. (Wisconsin), Professor of History

Haiven, Judy, M.A., Ph.D. (Warwick), Associate Professor and Chairperson of the Department of Management

Haiven, Larry, B.Sc. (Toronto), M.P.M. (Alberta), Ph.D. (Warwick), Associate Professor of Management

Harry, Margaret R., B.A. (Hons.) (London), M.A. (Manitoba), Ph.D. (Toronto), Associate Professor of English and Coordinator of Atlantic Canada Studies

Hartnell, Bert L., B.Math., M.Math., Ph.D. (Waterloo), Professor of Mathematics and Computing Science

Hayibor, Sefa, B.B.A. (Hons.), M.B.A. (Simon Fraser), Lecturer in Management

Heckerl, David, B.A. (Pitzer College), M.A. (New Brunswick), Ph.D. (McGill), Assistant Professor of English

Heffernan, Teresa, B.A., M.A. (Ottawa), Ph.D. (Toronto), Associate Professor of English and Acting Graduate Coordinator in Women's Studies

Heukaeufer, Margarethe, Philosophicum (Friedrich Wilhelm), Erstes Staatsexamen (University Cologne), Zweites Staatsexamen (Aachen), Ph.D. (British Columbia), Associate Professor of German (post retirement)

Hill, Janet, B.A. (Hons) (Sheffield), M.A., Ph.D. (Dalhousie), Associate Professor of English

Hill, Kenneth A., B.A. (California State College), M.A., Ph.D. (Alberta), Professor of Psychology

Hlongwane, Gugu, B.A. (Sarah Lawrence College), M.A. (Guelph), Ph.D. (York), Assistant Professor of English

Holmvall, Camille M., B.A. (Hons.) (Guelph), M.A., Ph.D. (Waterloo), Assistant Professor of Management and Psychology

Holmvall, Leif, B.Egn., Bus. Dip. International Marketing, Adjunct Professor in the EMBA Program

Howell, Colin D., B.A., M.A. (Dalhousie), Ph.D. (Cincinnati), Professor and Chairperson of the Department of History; Executive Director of Gorsebrook Research Institute

Hulan, Renee, B.A. (Acadia), M.A. (Guelph), Ph.D. (McGill), Associate Dean of Arts and Associate Professor of English

Ighodaro, MacDonald, B.A., B.Ed., M.Ed. (York), Ph.D. (Toronto – OISE), Assistant Professor of Sociology and Criminology

Jenkins, Hilary A., B.Sc. (Winnipeg), M.Sc. (Manitoba), Ph.D. (Windsor), Associate Professor of Chemistry

Johnson, Val M., B.A. (with distinction), M.A. (Toronto), Ph.D. (New School for Social Research), Assistant Professor of Sociology and Criminology

Jones, Martha, B.Sc. (Hons.) (Western Ontario), M.Sc. (Guelph), Ph.D. (Windsor), Adjunct Professor of Biology

Jones, William, B.Sc., M.Sc. (Mount Allison), Ph.D. (McGill), F.C.I.C., C. Chemistry, Adjunct Professor of Chemistry

Jonsyn-Ellis, Felixina, B.Sc. (Nazareth College, Michigan), M.Sc. (Hons.) (Muenster), Ph.D. (Liverpool), Adjunct Professor of Biology

Jutla, Dawn, B.Sc. (West Indies), M.Comp.Sc., Ph.D. (Technical University of Nova Scotia), Associate Professor of Information Systems

Jutras, Pierre, B.Sc., M.Sc., Ph.D., (Université de Québec à Montréal), Associate Professor of Geology

Katz, Wendy R., B.A. (Skidmore College), M.A., Ph.D. (Dalhousie), Professor of English

Keeble, Edna, B.A. (Hons.) (DePaul), M.A., Ph.D. (Dalhousie), Associate Professor of Political Science

Kelloway, Kevin, B.Sc. (Dalhousie), M.Sc. (Saint Mary's), Ph.D. (Queen's), Professor of Management and Psychology

Kennedy, Deborah, B.A., M.A. (Windsor), Ph.D. (Toronto), Associate Professor of English

Kennedy, Sean, B.A. (Trinity Dublin), M.A., Ph.D. (National University of Ireland – Galway), Assistant Professor of English

Khan, Bashir, M.S. in Statistics (University of Karachi), M.S. in Statistics (Rutgers), Ph.D. (Regina), Assistant Professor of Mathematics and Computer Science

Kiang, Mo-Tak, B.Sc., M.A., Ph.D. (Dalhousie), Professor of Mathematics and Computing Science

Kim, Chankon, B.Comm. (Calgary), M.B.A., Ph.D. (Indiana), Professor of Marketing

Kimery, Kathryn, B.A. (Tulsa), Ph.D. (Oklahoma), Associate Professor and Chairperson of the Department of Information Systems, Finance and Management Science

Kirk, John M., B.A. (Hons.) (Sheffield), M.A. (Queen's), Ph.D. (British Columbia), Adjunct Professor of International Development Studies

Konopasky, Robert J., M.A. (Western Ontario), B.A., Ph.D. (Windsor), Professor of Psychology

Konstantinidis, Stavros, B.Sc. (Athens), M.Sc., Ph.D. (Western Ontario), Associate Professor of Mathematics and Computing Science

Kontak, Daniel, B.Sc. (Hons.) (St. Francis Xavier), M.Sc. (Alberta), Ph.D. (Queen's), Adjunct Professor of Geology

Kowalchuk, Lisa, B.A. (McMaster), M.A. (McGill), Ph.D. (York), Adjunct Professor of Sociology and Criminology

Lamoureux, Marc M., B.Sc. (Hons.) (Ottawa), Ph.D. (Carleton), Associate Professor of Chemistry and Coordinator of Environmental Studies

Landes, Ronald G., B.Sc. (Oregon), M.A., Ph.D. (York), Professor of Political Science

Larsen, Michael J., B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Toronto), Professor of English and External Chairperson of the Department of Biology

Lee, Eric, B.A., M.A., Ph.D. (Victoria), Professor of Management Science

Lightstone, Karen, B.A. (Queens), C.A., Ph.D. Assistant Professor of Accounting

Lingras, Pawan, B.Tech. (Civil Engineering) (Indian Institute of Technology), M.Sc. (Civil Engineering), M.Sc. (Computer Science), Ph.D. (Regina), Professor and Chairperson of the Department of Mathematics and Computing Science

Linney, Norma C., B.Sc. (Mount Allison), B.Eng., M.A.Sc. (T.U.N.S.), Ph.D. (DalTech), P.Eng., Assistant Professor of Mathematics and Computing Science

Loughlin, Catherine, B.Sc. (Calgary), M.A., Ph.D. (Queens), Canada Research Chair in Management

Lundholm, Jeremy T., B.Sc. (Hons.) (Queens), MES (York), Ph.D. (Guelph), Assistant Professor of Biology and Environmental Studies

MacDonald, Chris J., B.A. (Trent), M.A., Ph.D. (British Columbia), Assistant Professor of Philosophy and Graduate Program Coordinator in Philosophy

MacDonald, Martha, B.A. (Dalhousie), M.A., Ph.D., (Boston College), Professor of Economics

MacDonald, Roger A., B.A. (St. Dunstan's), M.A. (Dalhousie), Ph.D. (New Brunswick), Professor of English

MacInnes, Joseph, B.A. (Dalhousie), B.C.S. (Technical University of Nova Scotia), Ph.D. (Dalhousie), Adjunct Professor in Mathematics and Computing Science

MacKenzie, Kenna, Dip. Tech. (BCIT), B.Sc., M.P.M. (Simon Fraser), Ph.D. (Cornell), Adjunct Professor of Biology

MacKinnon, Gregory H., B.Comm., Ph.D. (Alberta), Associate Professor of Finance

MacKinnon, John E., B.A. (Hons.) (McGill), M.A. (Toronto), M.Phil. (Exeter), Ph.D. (Cambridge), Associate Professor and Chairperson of the Department of Philosophy

MacLeod, Alexander, B.A. (Windsor), M.A. (Notre Dame), Ph.D. (McGill), Assistant Professor of English

MacNevin, Audrey, B.Sc., B.Ed. (Mount Saint Vincent), M.A. (Dalhousie), Ph.D. (Memorial), Assistant Professor of Sociology

MacRae, R. Andrew, B.Sc. (Hons.) (Dalhousie), M.Sc., Ph.D. (Calgary), Assistant Professor of Geology

Mader, Kenneth, C.A., F.C.A. (Nova Scotia), F.C.A. (Ontario), Adjunct Professor of Accounting

Malton, Sara, B.A. (Victoria), M.A. (Ottawa), Ph.D. (Toronto), Assistant Professor of English

March, Peter, B.A. (Dalhousie), Ph.D. (Bristol), Associate Professor of Philosophy

McCalla, Robert J., B.A. (Western Ontario), Ph.D. (Hull), Professor of Geography

McGee, Harold F., B.A., M.A. (Florida State), Ph.D. (Southern Illinois), Professor of Anthropology

McKinnell, Robert, B.A. (Hons.), M.A. (Natal), M.Sc. (Cambridge), Adjunct Professor of International Development Studies

McMullan, John, B.A. (Hons.), M.A. (Sir George Williams), Ph.D. (London School of Economics and Political Science), Professor of Sociology and Criminology

Mercer, Mark D., B.A. (Hons.), M.A. (Carleton), Ph.D. (Toronto), Associate Professor of Philosophy and Undergraduate Advisor

Method, Laura L., B.A. (Hons.) (Saint Mary's), M.A., Ph.D. (Western Michigan), Adjunct Professor of Psychology

Millar, Harvey H., B.Sc. (West Indies), M.A.Sc., Ph.D. (Technical University of Nova Scotia), Professor of Management Science

Mills, Albert, B.A. (Hons.) (Durham), M.A. (Sheffield), M.Sc. (Southern California), Ph.D. (Durham), Professor of Management and Director of the Doctoral Program

Mills, Jean H., B.A. (Hons.) (Saint Mary's), M.A., Ph.D. (Lancaster), Associate Professor of Management

Millward, Hugh A., B.A. (Lanchester Polytechnic), M.A., Ph.D. (Western Ontario), Professor of Geography

Mitchell, George F., B.Sc. (McMaster), M.A., Ph.D. (Toronto), Professor of Astronomy and Physics

Mohd, Mahmoud A., B.A. (Yarmouk), M.B.A. (Wisconsin-Madison), Ph.D. (Arkansas), Associate Professor of Finance

Morales, Miguel, B.Eco., M.B.A. (Lima), M.Sc. (Laval), Lecturer in Marketing

Morrison, James H., B.A., B.Ed. (Acadia), Ph.D. (Ibadan), Professor of History and Co-ordinator of the Asian Studies Program

Muir, Paul, B.Sc. (Saint Mary's), M.Sc., Ph.D. (Toronto), Professor of Mathematics and Computing Science and Co-ordinator of the Computing Science and Business Administration Program

Mukhopadhyay, Arun K., M.A. (Calcutta), M.A., Ph.D. (Brown), Professor of Economics

Murray, Harry, B.Sc. (Memorial), M.Sc. (Atlantic Veterinary College), Ph.D. (Memorial), Adjunct Professor of Biology

Nahrebecky, George, B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Queen's), Associate Professor of French and Chairperson of the Department of Modern Languages

Naulls, Donald J., B.A. (Hons.), M.A. (Wilfrid Laurier), Ph.D. (York), Associate Dean of Arts and Associate Professor of Political Science; Chairperson, Academic Senate

Neatby, Nicole, B.A. (Ottawa), M.A. (Queens), Ph.D. (Montreal), Associate Professor of History

Newsome, Shaun, B.Sc. (Hons.) (Mount Saint Vincent), M.Sc. (Saint Mary's), Ph.D. (Guelph), Adjunct Professor of Psychology

Noerdlinger, Peter, A.B. (Harvard), Ph.D. (California Institute of Technology), Adjunct Professor of Astronomy and Physics

Novkovic, Sonja, B.A. (Novi Sad), M.A. (Guelph), Ph.D. (McGill), Associate Professor of Economics

Ogden, Harold, Dip. in Bus. Ad., M.B.A. (Wilfrid Laurier), Ph.D. (Queen's), Associate Professor of Marketing

O'Malley, Anthony H., B.A. (New Hampshire), Ph.D. (Dalhousie), Associate Professor of Anthropology and International development Studies and Coordinator and Graduate Advisor of the International Development Studies Program

O'Neill, Timothy J., B.A. (St. Francis Xavier), M.A. (Columbia), Ph.D. (Duke), Adjunct Professor of Executive Master of Business Administration Program

Oore, Sageeve, B.Sc. (Hons.) (Dalhousie), M.Sc., Ph.D. (Toronto), Assistant Professor of Mathematics and Computing Science

Ó Siadhail, Pádraig, B.A. (Hons.), Ph.D. (Trinity College, Dublin), Chairholder, The Thomas D'Arcy McGee Chair of Irish Studies and Associate Professor of Irish Studies

Owen, J. Victor, B.Sc. (Concordia), M. Applied Sc. (Québec), Ph.D. (Memorial), Professor of Geology and Chairperson of the Department of Geology

Pardy, Blair, B.Sc. (Forestry), M.Sc. (New Brunswick), Adjunct Professor of Biology

Parpart, Jane L., B.A. (Brown), M.A., Ph.D. (Boston), Adjunct Professor of International Development Studies

Parsons, Michael, Adjunct Professor of Geology

Patry, Marc, B.A.(Castleton), M.A., M.L.S., Ph.D.(Nebraska-Lincoln), Assistant Professor of Psychology

Peckmann, Tanya R., B.Sc., B.A. (Hons.) (Winnipeg), M.A. (Manitoba), Ph.D. (University of Cape Fawn Medical School), Assistant Professor of Anthropology

Pe-Piper, Georgia, B.Sc. (Athens), Ph.D. (Cambridge), Professor of Geology

Pendse, Shripad G., B.A. (Knox College, Illinois), M.S. (Massachusetts Institute of Technology), Ph.D. (Stanford), Professor of Management

Perkin, J. Russell, B.A. (Hons.) (Acadia), M.A. (Oxford), Ph.D. (Toronto), Professor of English

Perrier, David C., B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (York), Associate Professor of Sociology and Criminology

Perrins, Robert J., B.A. (McMaster), M.A., Ph.D. (York), Adjunct Professor of History

Petras, James, M.A., Ph.D. (California), Adjunct Professor of International Development Studies

Piorko, Adam, B.Sc., M.Sc. (Silesian Technical), Ph.D. (Silesian, Poland), Associate Professor of Chemistry

Piper, David, B.A., Ph.D. (Cambridge), Adjunct Professor of Geology

Plews, John L., B.A. (Hons.) (Manchester), M.A., Ph.D. (Alberta), Assistant Professor of German

Power, Jeffrey, B.Comm. (Hons.), M.B.A. (Saint Mary's), Ph.D. (Purdue), C.M.A., F.C.M.A., Acting Associate Dean and Assistant Professor of Accounting

Preyra, Leonard C., B.A., M.A. (Toronto), Ph.D. (Queen's), Assistant Professor and Chairperson of the Department of Political Science

Pye, Cory C., B.Sc. (Hons.), Ph.D. (Memorial), Associate Professor of Chemistry

Rajiva, Mythili, B.A. (Concordia), M.A. (Ottawa), Ph.D. (Carleton), Assistant Professor of Sociology and Criminology

Rand, Thomas G., B.Sc. (Saint Mary's), M.Sc., Ph.D. (New Brunswick), Professor of Biology

Raymond, Mark, B.A., M.A. (Windsor), Ph.D. (Guelph), Assistant Professor of Economics

Reid, John G., F.R.S.C., B.A. (Hons.) (Oxford), M.A. (Memorial), Ph.D. (New Brunswick), Professor of History and Senior Fellow of the Gorsebrook Research Institute for Atlantic Canada Studies

Richardson, David H. S., B.Sc., M.Sc. (Nottingham), M.A., Sc.D. (Trinity College, Dublin), D.Phil. (Oxford), Dean of Science and Professor of Biology and Coordinator of the Master of Science in Applied Science Program

Rieber, Lloyd, B.A. (New York), B.Sc., M.Sc. (State University College, Oswego, New York), Ed.D. (Virginia Polytechnic Institute), Associate Professor of Communications and Chairperson of the Department of Marketing

Robinson, Brian S., B.A. (Queen's, Belfast), M.A. (Alberta), Associate Professor of Geography

Robinson, Patricia, B.Sc., M.A. (Arizona), Lecturer in Accounting

Ross, Neil, B.Sc., Ph.D. (McGill), Adjunct Professor of Biology

Russell, Ronald W., B.Sc. (Hon.), M.Sc., B.Ed., Ph.D., Associate Professor of Biology

Sable, Trudy, Adjunct Professor of Anthropology

Sarty, Adam J., B.Sc. (Eng.), Ph.D. (Saskatchewan), Associate Professor of Astronomy and Physics

Scales, Peter B., B.Sc. (Hons.) (Simon Fraser), M. Agr. (Oregon State), Adjunct Professor of Environmental Studies

Schneider, Stephen, B.A. (Carleton), M.Sc. (Pennsylvania), Ph.D. (British Columbia), Assistant Professor of Sociology and Criminology

Schulte-Bockholt, Alfried, B.A. (Hons.), M.A. (Guelph), Ph.D. (Carleton), Assistant Professor of Sociology and Criminology

Scobey, Porter, B.Sc., M.A., Ph.D. (Dalhousie), Associate Professor of Mathematics and Computing Science

Seaman, Andrew T., B.A. (Mount Allison), M.A. (Dalhousie), Ph.D. (Dublin), Professor of English and External Director of the Division of Engineering

Secord, Peter C., B.Comm. (Hons.), M.B.A., M.P.A. (Dalhousie), Ph.D. (Reading), C.M.A., C.I.A., Associate Professor and Chairperson of the Department of Accounting

Sewell, Bill, B.Sc. (Wisconsin), M.A. (California), Ph.D. (British Columbia), Associate Professor of History

Sharif, Najma, B.A. (Punjab), M.A. (Dacca), M.A., Ph.D. (McMaster), Associate Professor of Economics

Sharma, Sanjay, B.Comm. (Hons.) (Delhi), M.B.A. (Punjab), Ph.D. (Calgary), Adjunct Professor in the Executive Master of Business Administration Program

Shaw, Timothy, B.A. (Sussex), M.A. (East Africa), M.A., Ph.D. (Princeton), Adjunct Professor of International Development Studies

Short, C. Ian, B.Sc. (Hons.) (University of New Brunswick), M.Sc., Ph.D. (Toronto), Assistant Professor of Astronomy and Physics

Singer, Robert D., B.Sc. (Saint Mary's), Ph.D. (Simon Fraser), Professor of Chemistry and Chairperson of the Department of Chemistry

Singfield, Kathy L., B.Sc. (St. Francis Xavier), M.Sc., Ph.D., (McGill), Assistant Professor of Chemistry

Sivakumar, Shyamala C., B.Eng. (Bangalore), M.A.Sc. in Eng. (T.U.N.S.), Ph.D. (DalTech), Associate Professor of Information Systems

Smith, Steven, B.A. (Hons.) (Bishops), M.A., Ph.D. (Queens), Associate Professor of Psychology

Song, Xiaofei, B.Sc. (Fudan), M.Sc. (Shanghai Jiao Tong), M.B.A. (Saint Mary's), Ph.D. (The City University of New York), Associate Professor of Accounting

Soucy, Alexander, B.A., M.A. (Concordia), Ph.D. (The Australian National University), Assistant Professor of Religious Studies

Spires, Adam C., B.A.H. (Acadia), M.A., Ph.D. (Alberta), Assistant Professor of Spanish

Stanivukovic, Goran V., B.A. (Novi Sad), M.A., Ph.D. (Belgrade), Associate Professor and Chairperson of the Department of English

Stinson, Veronica, B.A., M.S., Ph.D. (Florida International University), Associate Professor of Psychology

Street, Philip A., B.A. (Windsor), M.A., Ph.D. (York), Associate Professor of Psychology

Stretton, Timothy, B.A. (Hon.), LL.B. (Adelaide), Ph.D. (Cambridge), Associate Professor and Chairperson of the Department of History

Strongman, Douglas, B.Sc. (New Brunswick), M.Sc. (Victoria), Ph.D. (New Brunswick), Professor of Biology

Summers, Russel J., B.A. (British Columbia), M.A., Ph.D. (Waterloo), Associate Professor of Management

Sun, Genlou, B.Sc. (Anhui Laodong University), M.Sc., Ph.D. (Sichuan Agricultural University), Associate Professor of Biology

Suteanu, A. Cristian, B.Eng. ("Politehnica" University, Bucharest), Ph.D. (Romania Academy), M.A. (University of Bucharest), Assistant Professor of Geography

Swingler, David N., B.Eng., Ph.D. (Sheffield), Professor of Engineering

Taheri, Javid, B.Sc. (Pahlavi), M.A. (York), Ph.D. (Dalhousie), Associate Professor of Economics

Tarnawski, V., M.Sc., Ph.D. (University of Technology, Poland), P.G.S. (University of Technology, Finland), Professor of Engineering

Tastsoglou, Evangelia, LL.B. (National University of Athens, Greece), Ph.D. (Boston University), Associate Professor of Sociology

Tellez, Juan, M.A. (Saint Mary's), Adjunct Professor of International Development Studies

Thomas, Geraldine T., B.A., B.Ed., M.A., Ph.D. (Dalhousie), Associate Professor of Classics

Thomas, Gillian M. V., B.A., M.A. (Sussex), Ph.D. (London), Professor of English and Coordinator, Women's Studies (Undergraduate Program)

Tugwell, Maurice, B.Sc. (Hons.) (Mt. Allison), M.Sc., Ph.D. (Queen's), Adjunct Professor, Executive Master of Business Administration Program

Tulloch, Shelley, B.A. (Trent), Ph.D. (Laval), Assistant Professor of Anthropology

Turner, David G., B.Sc. (Waterloo), M.Sc., Ph.D. (Western Ontario), Professor of Astronomy and Physics

Twohig, Peter L., B.A., M.A. (Saint Mary's), Ph.D. (Dalhousie), Associate Professor and Tier II Canada Research Chair in the Atlantic Canada Studies Program

Twomey, Richard J., B.A. (Eastern Connecticut), M.A., Ph.D. (Northern Illinois), Professor of History

Van Dyer, David, B.Eng., M.Eng., Ph.D. (Nova Scotia Technical College), Associate Professor of Engineering

Van Esch, Linda, B.Sc. (Hons.) (Calgary), M.A., Ph.D. (York), Associate Professor of Marketing

Vance, Michael, B.A. (Hons.) (Simon Fraser), M.A. (York, U.K.), M.A. (McMaster), Ph.D. (Guelph), Associate Professor of History

VanderPlaat, Madine, B.A. (Hons.), M.A., Ph.D. (Dalhousie), Associate Professor and Chairperson of the Department of Sociology and Criminology; Coordinator of Criminology

Vankamamidi, Sastry, B.E. (Osmania), M.Eng. (Indian Institute of Science), Ph.D. (Technical University of Nova Scotia), Professor of Engineering

van Proosdij, Danika, B.Sc. (Hons.), M.Sc., Ph.D. (Guelph), Associate Professor of Geography

Vaughan, Keith, B.Sc. (Manchester), Ph.D. (St. Andrew's), C.Chem., F.R.S.C. (UK), Professor of Chemistry

Veltmeyer, Henry, Licenciatura (linguistics), B.A. (Catholic University of Guayaquil), M.A. (Alabama), Ph.D. (McMaster), Professor of Sociology

Venkat, Ramesh, B.Comm., M.B.A. (Madurai-Kamaraj), M.B.A. (Simon Fraser), Ph.D. (British Columbia), Associate Professor of Marketing

Vulcano, Brent, B.A., M.A., Ph.D. (Manitoba), Associate Professor of Psychology

Wadden, J. Daniel, B.A. (Saint Mary's), B.B.A. (Windsor), M.B.A., Ph.D. (South Carolina), Assistant Professor of Marketing

Wagar, Terry H., B.A. (Queens), B.Comm. (Windsor), LL.B. (Ottawa), M.B.A. (Toronto), M.I.R. (Queen's), Ph.D. (Virginia Tech), Professor of Management

Walmsley, Daniel, Adjunct Professor of Environmental Studies

Walter, M. Susan, B.A., M.A., Phil.M. (Toronto), Associate Professor of Anthropology

Wang, Hai, B. Comp. Sc. (Hons.) (U.N.B.), M.Sc., Ph.D. (Toronto), Assistant Professor of Information Systems

Wang, Muhong, B.A.Sc. (Xian Jiaotong), M.A.Sc. (Xian Jiaotong), Ph.D. (Waterloo), Associate Professor of Management Science

Warner, Lyndan, B.A. (Hons.) (McGill), Ph.D. (Cambridge), Assistant Professor of History

Wein, Sheldon, B.A., M.A., Ph.D. (Waterloo), Professor of Philosophy

Welch, Gary A., B.S. (Harvey Mudd College), M.S., Ph.D. (Washington), Professor of Astronomy and Physics

Westhaver, Russell, B.A. (Hons.), M.A. (Saskatchewan), Ph.D. (Simon Fraser), Assistant Professor of Sociology & Criminology

Terrence A. Whalen, B.A. (Saint Mary's), M.A. (Melbourne), Ph.D. (Ottawa), Professor of English (on leave)

White, Michael J., B.Sc. (Hons.) (McMaster), Ph.D. (British Columbia), Associate Professor of Biology

White, Peter, Adjunct Professor of Environmental Studies

Wicks, David, B.Comm. (Carleton), M.B.A., Ph.D. (York), Acting Dean and Associate Professor of Management

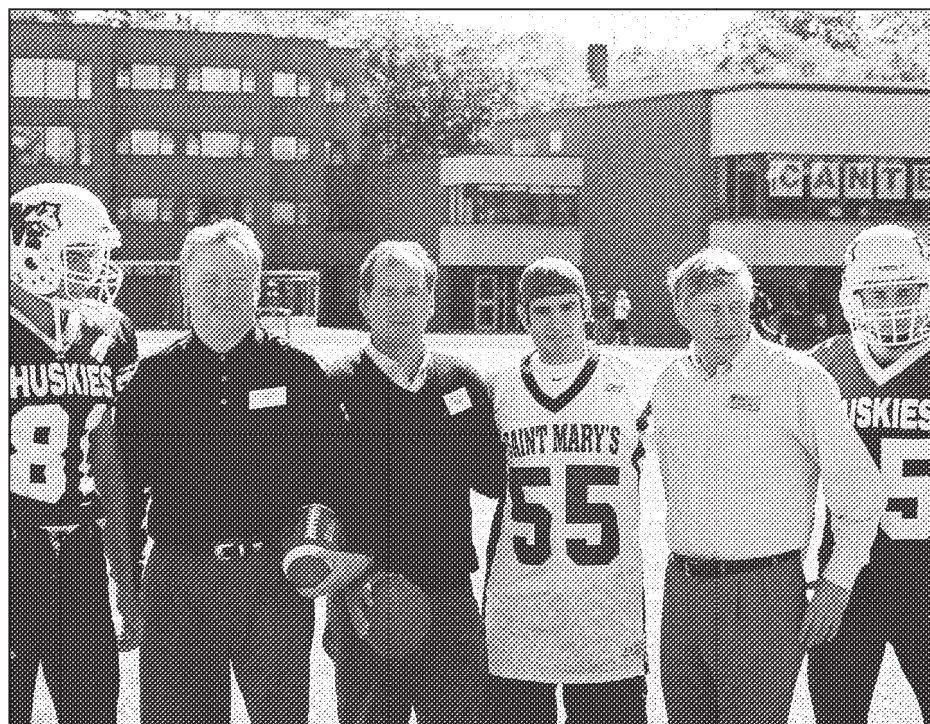
Wiebe, Elden, Ph.D., Assistant Professor of Management

Wilson, Clarke, B.A., M.P.I. (Queens), Ph.D. (Cambridge), Adjunct Professor of Economics

Ye, L. George, B.Sc. (Peking), M.Eng. (Beijing), M.A. (York), Ph.D. (Queen's), Assistant Professor of Finance

Young, Nicola, B.Comm., M.B.A. (Dalhousie), F.C.A., Professor of Accounting

Zelenietz, Martin C., B.A. (Northeastern Illinois), M.A. (Manitoba), Ph.D. (McMaster), Adjunct Professor of Anthropology



\$2 Million Touchdown in Huskies Stadium! Flanked by two Huskies wide receivers, left to right, Bill McEwan, President and CEO of Sobeys Inc., Paul D. Sobeys, President and CEO of Empire Company Limited and Chair of the University's Hearts and Minds Capital Campaign, Zach Churchill, President of SMUSA, and Dr. J. Colin Dodds, President of Saint Mary's

Chancellors, President, Deans, Professors, and Athletic Director Emeriti/Emerita

Badawi, Jamal A., B.Comm. (Ain-Shams), M.B.A., Ph.D. (Indiana), Professor Emeritus of Management

Beis, Richard H., B.A. (Western Ontario), M.A., Ph.D. (Notre Dame), Professor Emeritus of Philosophy

Bridgeo, William A., B.Sc. (St. Francis Xavier), Ph.D. (Ottawa), Dean Emeritus of Science

Bruce, Darryl, B.Comm. (McGill), M.Sc., Ph.D. (Pennsylvania State), C.A., Professor Emeritus of Psychology

Burke, Archbishop Austin E., B.A. (Ste. Anne), M.T.L. (Holy Heart), D.D. (Hons.), D.Litt. (Hons.) (Ste. Anne), Chancellor Emeritus

Byrne, Cyril J., O.C., B.A. (St. Dunstan's), M.A. (National University of Ireland), M.A. (Oxford), Ph.D. (Toronto), Professor Emeritus of English

Carrigan, D. Owen, B.A. (St. Francis Xavier), M.A. (Boston), Ph.D. (Maine), Professor Emeritus of History

Chadwick-Jones, John, B.A., M.A. (Oxford), Ph.D., D.Sc. (Wales), F.A.P.A., F.B.Ps.S., Professor Emeritus of Psychology

Connelly, Patricia, B.A. (Saint Mary's), Dip. Ed., M.A. (Dalhousie), Ph.D. (Toronto), Professor Emeritus of Sociology

Day, E. E. Douglas, B.A., Dip. Ed. (Leicester), Ph.D. (Sheffield), Professor Emeritus of Geography

Dostal, Jaroslav, Dip. Geol. (Prague), Ph.D. (McMaster), Professor Emeritus of Geology

Dougherty, Frank P., B.Comm. (Sir George Williams), M.Sc. (Clarkson College of Technology), Ph.D. (Pennsylvania State), C.A., Professor Emeritus of Accounting

Grennan, Wayne, B.Eng. (Nova Scotia Technical College), B.A., M.A. (Dalhousie), D.Phil. (Oxford), Professor Emeritus of Philosophy

Harvey, Andrew S., B.A. (Maine), M.A., Ph.D. (Clark), Professor Emeritus of Economics

Hayes, Archbishop Emeritus James M., B.A. (Saint Mary's), D.C.L., Hon.D.D., Hon.D.D., Hon.D.Hum.L., Hon.LL.D., Hon.D.Litt., Hon.D.Litt., Chancellor Emeritus

Hayes, Robert G., B.A. (Saint Mary's), Athletic Director Emeritus

Kapoor, Brij M., B.Sc., M.Sc., Ph.D. (Delhi), Professor Emeritus of Biology

Lonc, William, S.J., B.Sc. (Sir George Williams), Ph.L., Ph.D. (St. Louis), Professor Emeritus of Astronomy/Physics

MacCormack, John R., B.A., M.A. (Dalhousie), Ph.D. (Toronto), Professor Emeritus of History

McBride, Edward J., B.S. (LeMoyné), M.A. (Catholic University of America), Professor Emeritus of Political Science

Monahan, Arthur P., B.A., M.A., Ph.D. (Toronto), L.M.S. (Pontifical Institute of Medieval Studies, Toronto), Professor Emeritus of Philosophy

Murphy, James W., S.J., B.A. (St. Joseph's), M.A., Ph.D. (Toronto), Professor Emeritus of Chemistry

Ozmon, Kenneth L., B.A. (St. Bernard College), M.A. (Catholic University of America), Ph.D. (Maine), Hon. LL.D. (Saint Thomas), President Emeritu

Ralston, Helen, R.S.C.J., Dip. Soc. Studs. (Sydney), B.A. (Newton College), M.A. (Boston College), Ph.D. (Carleton), Professor Emerita of Sociology

Rojó, Alfonso, B.Sc. (Valladolid), M.Sc., D.Sc. (Madrid), Professor Emeritus of Biology

Schwind, Hermann F., B.B.A., M.B.A. (Washington), Ph.D. (British Columbia), Professor Emeritus of Management

Stewart, William A., S.J., B.A. (Montreal), S.T.L., Ph.L. (Immaculate Conception), Hon.D.D. (Regis), Hon.D.Litt. (Saint Mary's), Professor Emeritus of Philosophy

Stiegman, Emero S., B.A. (Don Bosco College), S.T.L. (Salesian Pontifical), Ph.D. (Fordham), Professor Emeritus of Religious Studies

Tudor, Kathleen R., B.A. (Sir George Williams), M.A. (Montreal), Ph.D. (Toronto), Professor Emeritus of English

Williamson, Douglas H., B.Sc., Ph.D. (Aberdeen), Dean Emeritus of Science

Young, George F. W., B.A. (Harvard), Ph.D. (Chicago), Professor Emeritus of History

Young, John C. O'C., B.Sc., Ph.D. (London), M.B.A. (New York), Professor Emeritus of Chemistry

Administrative Officers

President

Dodds, J. Colin, B.A. (Open University), B.Sc. (Hull), M.A., Ph.D. (Sheffield), President and Professor of Finance

Vice-President (Administration)

Morrison, Gabrielle, B.Sc. (Dalhousie), B.E. (Technical University of Nova Scotia), P.Eng.

Vice President (Finance)

Corrigan, Lawrence T., Dip. P.A., B.Comm. (Dalhousie), M.B.A. (Saint Mary's), Dip. in App. Bus. (Ryerson), C.G.A., F.C.G.A.

Vice President (Associate) (External Affairs)

Bridges, Charles R. (Chuck), M.B.A. (Saint Mary's)

Associate Vice President (Enrolment Management) and Registrar

Dixon, Paul S., B.A. (New Brunswick), M.Math., Ph.D. (Waterloo), Associate Vice President (Enrolment Management), Registrar and Professor of Management Science

Admissions Office

Ferguson, Greg C., B.Comm. (Saint Mary's), Director

Alumni

Cleary, Shawn, B.Comm. (Western Ontario), MBA (Saint Mary's), Director

Art Gallery

Metcalfe, Robin, B.A., (Hons.) (Dalhousie), Director/Curator

Athletics and Recreation

Murphy, David J., B.A. (Saint Mary's), D.D.S. (Dalhousie), Cert. in Oral Surgery (Bellevue Hospital, N.Y.), FRCD (c), F.I.C.O.I., Director

Business Development Centre

Crowell, Eric, B.A. (Dalhousie), M.B.A. (Toronto), C.A., Director

Conference Services

Robinson, Wanda, B.Sc. (Hons.) (Saint Mary's), Manager

Continuing Education

MacDonald, Linda A., B.A. (Mount Allison), B.Ed. (New Brunswick), M.Ed. (Maine), Acting Director

Development

Hutchinson, Jodi, B.A. (Mount Allison), B.Ed. (St. Francis Xavier), Director of Development

Melanson, Anne C., B.P.R. (Mount Saint Vincent), Campaign Director

Fitzpatrick, Heather M., B.P.R. (Mount Saint Vincent), Senior Manager, Development

Facilities Management

Schmeisser, Gary H., B.Sc. (Dalhousie), B.E. (Technical University of Nova Scotia), Director

Financial Services

Cochrane, Ronald L., B.Comm. (Saint Mary's), C.G.A., Director of Financial Services

Dubois, Valerie, B.Comm. (Saint Mary's), F.I.C.B., C.P.P., Project Analyst

Harper, Donald, B.Sc. (Saint Mary's), Manager, Bookstore

Hayward, Maureen, B.Comm. (Saint Mary's), C.A., Manager, Treasury

Levangie, Gail, B.Comm. (Saint Mary's), C.P.P., Manager, Procurement

Murtha, Cindy, B.A., B.B.A. (Mount Saint Vincent), C.M.A., Manager, Reporting & Audit

Webb, Kevin, B.Comm. (Saint Mary's), C.M.A., Manager, Financial Planning

Gorsebrook Research Institute

Howell, Colin D., B.A., M.A. (Dalhousie), Ph.D. (Cincinnati), Executive Director

Human Resources

Squires, Kim, B.A., B.Ed., M.B.A. (Saint Mary's), C.H.R.P., Director

Information Technology Systems and Support

Sisk, Perry, B.Sc. (Dalhousie), Director

Institutional Analysis/Planning

Lewis, Catherine, B.A. (Queen's), M.B.A. (Saint Mary's), Director

Instructional Development

Bennett, Margaret-Anne, B.A. (Saint Mary's), B.Ed., M.Ed. (Dalhousie), Director

International Activities

Leclaire, Denis, B.A. (Loyola), M.A. in International Affairs (Carleton), Director

Library

Lefebvre, Madeleine, M.L.S., M.A. (Alberta), M.A. (Edinburgh), AALIA, FCLIP, University Librarian

Bentley, Brenda, Coordinator, Library Administration

Clare, Ken, B.A. (King's), Head of Access Services

Cook, Hansel, B.A. (Dalhousie), M.L.I.S. (British Columbia), Archives, Special Collections and Records Librarian

Cook, Robert, B.A. (Hons.) (Wales), M.A. (Lancaster), M.A. (Saskatchewan), M.L.S. (Dalhousie), Cataloguing Systems Librarian

Harrigan, Cindy, B.A., B.Ed. (Saint Mary's), M.L.S. (Dalhousie), Instructional Development Librarian

Houlihan, Ron, B.A. (Saint Mary's), M.L.I.S. (Dalhousie), Promotional Services Librarian

Manning, David, Head of Acquisition Services

Sanderson, Heather, B.A. (Hons.) (King's), M.A. (Queen's), Ph.D. (Queen's), M.L.I.S. (Dalhousie), Information Literacy Librarian

Saunders, Heather, Acting Head of Acquisition Services
Thomson, Joyce, B.A., M.L.S. (Dalhousie), Head of User Education

Vaisey, Douglas, B.A. (Trent), M.L.S. (Dalhousie), Reference and Research Librarian

Webster, Peter, B.A. (Alberta), M.L.S. (Dalhousie), Information Systems Librarian

Wood, Sally, B.A. (Saint Mary's), LL.B., M.L.I.S. (Dalhousie), Head of Database Management

Registrar's/Records Office

Wilson, Murray J., B.A., B.Ed. (Saint Mary's), Associate Registrar

Peters, David, B.Comm. (Saint Mary's), Director of Registrarial Services

Residence

Fowler, P. Clay, B.A. (Saint Mary's), M.Ed. (Acadia), Director

Sobey School of Business Advisory Council

Keith, John (Jack) R., Hon. D.Comm. (Saint Mary's), C.M., Chairperson

Security

Promaine, William J., B.A. (Carleton), Manager

Senate Office

Bell, Barb, Secretary to Senate

Conflict Resolution Advisor

Brownlow, Bridget, B.A. (Dalhousie), Con. Res-Cert. (JIBC)

Student Recruitment

Wood, Monica, Dip. Community Recreation (Mount Royal College), Therapeutic Recreation, (Arizona State University), BA. (University of Winnipeg), Canadian Securities Institute (Toronto), Business Admin./Acc. (Success Business College), Director

Student Services

Hotchkiss, Keith, B.A. (Saint Mary's), Director

Leitch, David, B.A., B.Ed., B.Sc., M.A., Ph.D. (Dalhousie), Director, Atlantic Centre for Support of Students with Disabilities

The Teaching English as a Second Language Centre

Sargent, Maureen, B.Ed. (University of Swaziland), M.Ed. (Saint Mary's), Director

The Writing Centre

Stodolny, Julie-Anne, B.A. (Hons.) (McMaster), M.A. (Western Ontario), M.A. (Waterloo), Director



Students from the Sobey School of Business participated in the John Molson MBA International Case Competition in early January 2006. Held in Montreal, the competition is the first, largest and most respected MBA case competition in the world. The Sobey MBA Team consisted of (left to right) Ram Kumar, Sarah MacLellan, Derek Cann, and Joann Lawless. Dr. David Wicks (far right), Acting Dean of Commerce, served as team coach.

Awards to Faculty and Staff

Annually there are three prestigious awards presented to members of faculty and staff.

a. The Reverend William A. Stewart, S.J., Medal for Excellence in Teaching

In 1983, the Alumni Association, in cooperation with the Faculty Union and the Students' Representative Council, established the Reverend William A. Stewart, S.J., Medal for Excellence in Teaching. This award is open to faculty members who have made an extraordinary contribution to the education of Saint Mary's students through teaching in the University's tradition of quality undergraduate education. Nominations are invited from alumni, students, and faculty members. This medal is presented at Spring Convocation together with a cheque for \$1,500. Previous winners of this prestigious award are:

- 1983 Professor David Hope (Accounting)
- 1984 Professor Dermot Mulrooney (Engineering)
- 1985 Dr. David Perrier (Sociology)
- 1986 Dr. John Young (Chemistry)
- 1987 Professor Edward McBride (Political Science)
- 1988 Dr. Jack Ginsburg (Chemistry)
- 1989 Dr. Peter March (Philosophy)
- 1990 Dr. Andrew Seaman (English)
- 1991 Dr. Phil Street (Psychology)
- 1992 Dr. Francis Phillips (Education)
- 1993 Dr. Janet Baker (English)
- 1994 Dr. Cyril Byrne (English)
- 1995 Professor Nicola Young (Accounting)
- 1996 Dr. Ronald Landes (Political Science)
- 1997 Dr. Paul Muir (Mathematics and Computing Science)
- 1998 Dr. David Cone (Biology)
- 1999 Dr. Robert Singer (Chemistry)
- 2000 Dr. Eric Lee (Finance and Management Science)
- 2001 Dr. Janet Gregory (Finance and Management Science)
- 2002 Dr. Gillian Thomas (English)
- 2003 Dr. Janet Hill (English)
- 2004 Dr. Porter Scobey (Mathematics and Computing Science)
- 2005 Dr. Adam Sarty (Astronomy and Physics)

b. President's Award for Excellence in Research

Established in 1989, this annual award honors outstanding research conducted by a full-time faculty member who has been employed at the University for at least three years. Presentation of the award takes place at Convocation. A rigorous nomination procedure has been delineated whereby each Dean of a Faculty may select one member of his/her Faculty who has been nominated by a faculty research, and whose candidacy he is prepared to support. Other sponsors must be researchers, at least two of whom must be from outside Saint Mary's University. The award is adjudicated by the Research Committee of the Faculty of Graduate

Studies and Research, which has the authority to decide which nominee, if any, is deserving of the award. The selection criteria consists of two component parts, namely productivity, whereby the nominee must have a record of continued exceptional contribution to research/scholarship; and secondly, recognition. The nominee must have attained national or international recognition as an authority in a major field of knowledge. The President's Award for Excellence in Research consists of a framed certificate presented at Fall Convocation together with a cheque for \$1,500. Previous winners of this significant award are:

- 1989 Dr. George Mitchell (Astronomy)
- 1990 Dr. John Chadwick-Jones (Psychology)
- 1991 Dr. John Reid (History/Atlantic Canada Studies)
- 1992 Dr. Jaroslav Dostal (Geology)
- 1993 Dr. Arthur Monahan (Philosophy)
- 1994 Dr. Michael Zaworotko (Chemistry)
- 1995 Dr. John Young (Chemistry)
- 1996 Dr. Terry Wagar (Management)
- 1997 Dr. David Turner (Astronomy)
- 1998 Dr. Colin Howell (History/Atlantic Canada Studies)
- 1999 Dr. Georgia Pe-Piper (Geology)
- 2000 Dr. Henry Veltmeyer (Sociology)
- 2001 Dr. Bert Hartnell (Mathematics and Computing Science)
- 2002 Dr. Andrew Harvey (Economics)
- 2003 Dr. Stephen Davis (Anthropology)
- 2004 Dr. J. Victor Owen (Geology)
- 2005 Dr. David Guenter (Astronomy and Physics)

c. The President's Awards for Exemplary Service

Created in 2004, the President's Awards for Exemplary Service at Saint Mary's University are presented each year to recognize employees who have demonstrated outstanding service and/or who have made significant contributions to the University community beyond that normally expected for their positions.

The awards are open to full-time employees of Saint Mary's University who have served a minimum of five (5) years of continuous service prior to nomination and who have not previously received the award. A person may be nominated multiple years providing he/she hasn't received an award.

The awards will be based on outstanding service to the University in any one or more of the following areas:

1. Providing continued excellent service to the Saint Mary's community.
2. Enhancing the quality of life for students, employees, and/or visitors to the University.
3. Having a demonstrated record of innovation within the University in new programs/services or making significant improvements to existing programs or service, and
4. Advancing the reputation of Saint Mary's University regionally, nationally and/or internationally.

One award of \$1,500 may be presented annually to a faculty member and two awards of \$1,500 each may be presented annually to support and administrative employees.

2004

Elizabeth Chard (Registrar)
Joan Whitney (Office of the Dean of Arts)
Richard Chesley (Accounting)
Diane Gorman (Facilities Management) – Honorable
Mention

2005

Ann MacDonald (Conference Services)
Susan Dore (Office of the Dean of Science)
Malcolm Butler (Astronomy and Physics)
Kathy Mullane (Athletics) Honorable Mention



Scotiabank donates \$500,000 to the University's Hearts and Minds Capital Campaign. From the left: Dr. J. Colin Dodds, President of Saint Mary's; Rick Waugh, President and CEO of Scotiabank; Paul D. Sobey, President & CEO of Empire Company Limited and Chair of the Saint Mary's \$40 million "Hearts & Minds" Capital Campaign; and, Paul Dyer, Scotiabank's Regional Vice-President, Eastern Region and Chair of the Saint Mary's Board of Governors.

