Academic Calendar • 2001-2002



Celebrating 200 Years • 1802-2002
Where Tradition Meets the Future





Halifax, Nova Scotia, Canada

The academic year to which this Academic Calendar refers begins on 1 September 2001. The University hereby gives notice that while the information contained in this Calendar is considered to be accurate at the time of preparation, there may be changes made subsequent to publication without prior notice. Publication date: 31 December 2000.

Students and other readers will appreciate that the matters dealt with in this Academic Calendar are subject to continuing review. Saint Mary's University reserves the right to alter what appears in this Academic Calendar and, without limiting the generality of the foregoing, to revise or cancel particular courses or programs, and to change the rate of fees and charges in order to serve the best interests of the University. The University cannot accept responsibility or liability for any person or persons who may suffer loss or damage, or who may be otherwise affected by changes as a result of suspension or termination of services, courses or classes caused by reason of strikes, lockouts, riots, weather, damage to University property or for any other cause beyond the reasonable control of Saint Mary's University.

While the University will make every reasonable effort to offer classes as required within degree, diploma and certificate programs, students should note that acceptance to an academic program does not guarantee admission in a particular year to a given class or a particular section of a class.

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Academic Calendar of **Saint Mary's University**

2001-2002

Saint Mary's University Halifax, Nova Scotia Canada **B3H3C3**

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(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.stmarys.ca; the Registrar's Home Page at http://www.stmarys.ca/registrar.

Using This Calendar

Some of the courses described in this Calendar will not be offered in 2001-2002. Students are therefore advised to consult the academic timetable for those courses which will be taught in the 2001-2002 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 a university 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 several degree, diploma, and certificate programs offered at Saint Mary's University.

These programs include:

Bachelor of Arts

Bachelor of Commerce

Bachelor of Education

Bachelor of Education (Vocational)

Bachelor of Science

Diploma in Engineering

Diploma in Forensic Sciences

Master of Arts (in Atlantic Canada Studies, Criminology, Education,

History, International Development Studies, Philosophy,

Women's Studies)

Master of Business Administration

Executive Master of Business Administration

Master of Education

Master of Science (in Astronomy, Applied Psychology)

Certificate of Honors Equivalency

Certificate of Chinese Studies

Certificate in German Language and Culture

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)

After deciding on the academic program in which they are interested and studying the requirements of the 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 instructor. Keeping within the requirements of the preticular 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:

Academic Policies and Records

Registrar: 902-420-5582 Fax: 902-420-5151

Web Address: www.stmarys.ca/registrar

Admission of Students

 Director of Admissions:
 902-420-5415

 Local Fax:
 902-496-8100

 International Fax:
 902-496-8160

Web Address: www.stmarys.ca/administration/admiss/admiss.html

Continuing Education: 902-420-5492 Fax: 902-420-5103

Web Address: www.stmarys.ca/conted

Alumni Affairs

Director of Alumni: 902-420-5420 Fax: 902-420-5140

Web Address: www.stmarys.ca/administration/alumni

Fee Information

Director of Financial Services: 902-420-5464
Fax: 902-496-8184

Web Address: www.stmarys.ca/administration/businessoffice/

Residence Accommodations

Director of University Residence: single housing

 single housing
 902-420-5598

 family housing, graduate housing
 902-420-5589

 Fax:
 902-496-8107

Web Address:

www.stmarys.ca/administration/students/Residence/welcome.html

Scholarships and Student Loans

Financial Aid Counselor 902-420-5609 Fax: 902-420-5125

Web Address:

www.stmarys.ca/administration/StudentServices/finaid/aid.html

Student Affairs

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

Student Employment and Job Placement
Manager/Student Employment Office: 902-420-5499
Fax: 902-420-5125

Web Address:

www.stmarys.ca/administration/StudentServices/employme.html

Summer Sessions

Director of Continuing Education 902-420-5492 Fax: 902-420-5103

Web Address: www.stmarys.ca/conted

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State-of-the-Art Sobey Building, officially opened in November 1998.

A MESSAGE FROM THE PRESIDENT . . .

On behalf of my colleagues, I wish to thank prospective 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.

As this Academic Calendar will demonstrate, we offer a broad range of academic programs and while we are primarily an undergraduate institution, we have select graduate programs in all three faculties, Commerce (MBA, Ph.D.), Science (MSc) and Arts (MA). Innovation has also been a hallmark of Saint Mary's and in the Maclean's 2000 Survey of Universities, we were placed in the top 5 in the 'Innovative Reputational' category. Recently, we developed programs in Criminology, (a major in the BA, a Master's Program and a Graduate Diploma) and in the Faculty of Science, a Forensic Science Diploma in partnership with the RCMP. Our Ph.D. in Human Resource Management was launched in June 2000. In addition, we offer a range of interdisciplinary programs, including Asian Studies (with Japanese and Chinese languages); and at both the undergraduate and graduate level, Atlantic Canada Studies, International Development Studies, and Women's Studies. We also encourage students to study for minors in other faculties to equip them with a broad range of knowledge and skills.

As we approach our bicentenary in 2002, we are committed to continuing the renewal program of our facilities on campus. Already our residences are wired and we have many small study/breakout rooms and study areas equipped with drop points for laptops in our two main teaching buildings (Loyola Academic and The Sobey Building). Many of our computer labs are open 24 hours a day to provide maximum access.

We do care about our students and want to help you achieve your full potential. Recently, we have established a Centre for New Students to assist in the early days of transition to university. Give them 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 the Atlantic Centre for Support of Students with a Disability.

Saint Mary's is a university very much on the move. You will find academic excellence in our programs and our instructors - our faculty rated 2nd in the country in the latest Maclean's ranking for faculty with Ph.D. There is a vibrancy, a sense of community and commitment on our campus. I encourage you to read our Academic Calendar and visit our website to learn more about us. Education is a critical investment for you and the future of our society. We take our role seriously in providing you with the highest return on your investment. Good luck with your studies.

J. Colin Dodds, Ph.D. President

THE INSTALLATION OF DR. J. COLIN DODDS AS PRESIDENT OF SAINT MARY'S UNIVERSITY 22 OCTOBER 2000



Dr. Dodds receives his Presidential Medallion of Office from Robert G. Belliveau, Q.C., Chairperson, Board of Governors

General Information

History
Calendar of Events
Board of Governors and Senate

Section 4

General Information

History

Since its founding in 1802, Saint Mary's University has developed into a modem, urban university with more than 8,000 full and parttime 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. 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.

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. 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 three 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 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.

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101 More than eleven thousand students are enrolled during the ine 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 location including the World Trade and Convention Centre in downtown Halifax, in Dartmouth, as well as in several other communities. Saac Mary's boasts residence facilities for single and married students fits Students Centre, Science Building, the Patrick Power Library, white 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 Sob Building, officially opened in November 1998. It provided much needed additional classrooms with the very latest in technology a is home to the Frank H. Sobey Faculty of Business. Over the last The number of years, Saint Mary's University has become a teaching In 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 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."

Metro Halifax Universities Consortium

Recognizing that Nova Scotia and Atlantic Canada are at a crossroads, global forces including trade liberalization, economic restructuring, the information revolution, and the changing role of governments presents both threats and opportunities. In recognition of this and the fact that Nova Scotia's universities will play a key roll in the province's transition to this new global economy and society, in 1995 the Metro Halifax post secondary institutions (Atlantic School of Theology; Dalhousie University; University of King's College; Mount Saint Vincent University; Nova Scotia College of Art and Design; Saint Mary's University; and the then Technical University of Nova Scotia) began serious discussions in response to the dual challenges of maintaining service to students and society while coping with anticipated unprecedented reductions in public

iding. This Consortium blueprint was formally accepted by the vernment of Nova Scotia in early 1996.

result was the Metro Halifax Universities Consortium which sts in order to sustain universities - the source and site of ellectual development and academic enterprise - through a fiscal sis. The impact of this crisis will not be limited to the particular stitutions, programs and people involved, but will reverberate roughout the society, culture, and economy of the province at a ne when the University's capability for research, development, bblem-solving, and education of the citizenry will be even more leastly needed. The Mission of the Metro Halifax Universities consortium is to secure cost savings and new sources of revenues the metro universities and to promote the enhancement of aching, research, and graduate studies through co-operative litiatives between or among partner institutions. The Vision is of a ibnsortium that is academically strong, vibrant, fiscally responsible, Itellectually dynamic, and most importantly, student-focused. Saint lary's University has in the past and will continue in the future to lav a significant role in the development of this consortium oncept.

statement of Objectives

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

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

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 DalTech (formerly 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.

Freedom of Information and Protection of Privacy Act

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.

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 Thoms.

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 Jewelery 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.

2001 July

6 (Friday)

Deadline for filing an application for graduation for Fall Convocation, 2001.

REGISTRATION

Details on registration for the 2001-2002 academic year will be published at a later date in the Registration Book, 2001

11

10

31

5

September

5 (Wednesday)

CLASSES BEGIN.

Last day for registering and changing full (i.e., designated .0) and first semester (i.e., designated .1) courses. 11 (Tuesday)

21 (Friday) Last day for filing applications for degrees, diplomas and certificates to be awarded at Spring Convocations, 2002.

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

October

8 (Monday)

Thanksgiving Day.

21 (Sunday)

Fall Convocation, 2001.

November

8 (Thursday)

Last day for withdrawing, without academic penalty, from a first semester course (.1) or a full course (.0) taught only in

the first semester (Reference: Academic Regulation 16).

9 (Friday) University closed in recognition of Remembrance Day (Sunday, 11 November). No classes.

14 (Wednesday) Special advising for non-majors. Details available from the Deans of Science and Commerce and the Associate Dean

Arts.

29 (Thursday) Last day of classes in first semester.

30 (Friday) Study Day (T.B.C.)

December

1 (Sat.) - 18 (Tues.)

Formal final examinations in first semester courses (.1) and formal mid-year examinations in full year courses (.0). Note

Subject to change should it not be possible to schedule all formal examinations in this period.

8 (Saturday)

Patronal Feast of the University. Traditionally, formal examinations are not held on this date.

18 (Tuesday)

First semester ends. Note: Subject to change should it not be possible to schedule all formal examinations in this penol

21 (Friday) Last day in first semester to register for .2 courses.

2002

January

3 (Thursday)

University reopens.

7 (Monday)

CLASSES RESUME.

3 (Thursday) -

(a) Registration for students not previously registered for the 2001-2002 academic year.

11 (Friday)

(b) Change of Registration.

15 (Tuesday)

Last day for final payment of second semester tuition fees.

17 (Thursday)

Last day for withdrawing, without academic penalty, from a full course (.0) taught over both semesters (Reference: Academic Regulation 16).

February 18 (Mon.) - 23 (Sat.)Winter Break.

March

6 (Wednesday) Special advising for non-majors. Details available from the Deans of Science and Commerce and the Associate Dean of

Arts.

18 (Monday)

Last day for withdrawing, without academic penalty, from a second semester course (.2) or a full course (.0) taught only in the second semester (Reference: Academic Regulation 16).

29 (Friday)

Good Friday. No classes.

April

9 (Tuesday)

Last day of classes in second semester.

10 (Wednesday)

Study Day (T.B.C.)

11 (Thursday) -30 (Tuesday)

Formal final examinations in second semester courses (.2) and in full courses (.0).

Note: Subject to change should it not be possible to schedule all formal examinations in this period.

30 (Tuesday)

Second semester ends. Note: Subject to change should it not be possible to schedule all formal examinations in this

May 10 (Friday)

Last day for potential graduates to notify the Registrar of being "in absentia" at Spring Convocations, 2002. (T.B.C.)

24 (Friday)

Spring Convocations, 2002. (T.B.C)

July

5 (Friday)

Last day for filing applications for degrees, diplomas, and certificates to be awarded at Fall Convocation, 2002.

Each year, Saint Mary's University offers two summer sessions. For the year 2001, the dates are: First Session, 7 May to 22 June with the split for .1 and .2 occurring on 30/31 May. Second Session, 3 July to 17 August with the split for .1 and .2 courses on 25/26 July. Details are available in the Summer Sessions brochure published annually by the Division of Continuing Education.

JULY									
S	M	T	W	T	F	S			
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AUGUST									
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Board of Governors and Senate

Board of Governors

Chairperson

Mr. Robert Belliveau, Q.C.

Vice-Chairperson

Mr. Paul Dver

Members Ex-Officio

Chancellor

Archbishop Terrence Prendergast, S.J.

Vice-Chancellor

Reverend Martin Currie, V.G.

President

Dr. J. Colin Dodds

Vice-President (Academic and Research)

Dr. Andrew Seaman

Vice-President (Administration)

Ms. Gabrielle Morrison

Chief Financial Officer

Mr. Lawrence Corrigan

Members Appointed by the Roman Catholic

Episcopal Corporation

Mr. Robert Belliveau, Q.C. to July 31, 2002
Ms. Karen Oldfield to July 31, 2000
Ms. Helen Gillis to July 31, 2001

Members Elected by the Alumni Association

Mr. Brian Downie to July 31, 2002
Mr. Peter Halpin to July 31, 2001
Mr. Lawrence Hood to July 31, 2001
Mr. Wm. E. (Ned) Keleher to July 31, 2002
Mr. Brad Langille to July 31, 2003
Ms. Zeda Redden to July 31, 2003

Members Elected by the Academic Staff

Dr. D. Owen Carrigan	to July 31, 2002
Dr. Martha MacDonald	to July 31, 2003
Dr. Georgia Pe-Piper	to July 31, 2001
Dr. Qadeer Siddiqui	to July 31, 2003
Dr. Keith Vaughan	to July 31, 2001
Prof. Nicola Young	to July 31, 2002

Members Elected by the Students

Ms. Samantha Anderson to July 31, 2001
Mr. Liam Arbuckle to July 31, 2001
Mr. Christian Haggart to July 31, 2001
Mr. Michael Thorboume to July 31, 2001

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

TBA

Members Elected by the Board of Governors

Hon. Alan R. Abraham to July 31, 2001 Mr. Paul Dyer to August 31, 2003 Mr. Lee Gaudio to July 31, 2003 Mr. David Grace to July 31, 2001 Mr. Thomas (Tim) C. Moore to 28 March, 2002 Senator Wilfred Moore, Q.C. to July 31, 2003 Mr. Fred Smithers to July 31, 2002 TRA to July 31, 2003

Members Appointed by the Lieutenant-Governor in Council

Mr. John Fitzpatrick to November 30, 2001

TBA

Observer Elected by Support Staff

Ms. Donna Filek to July 31, 2002

Academic Senate

Chairperson

Dr. Donald J. Naulis

Vice-Chairperson

Dr. Keith Vaughan

Secretary

TBA

Members Ex-Officio

Dr. J. Colin Dodds, President

Dr. Andrew Seaman, Vice-President (Academic and Research)

Dr. David H. Richardson, Dean of Science

Dr. Paul Dixon, Dean of Commerce

Dr. Michael J. Larsen, Dean of Arts and Acting Dean of Education Ms. Madeleine Lefebvre, Librarian

Dr. Elizabeth A. Chard, Registrar

Mr. Keith Hotchkiss, Director of Student Services

Members Elected

To August 2003

Dr. G. Chauvin

Dr. P. Bowlby

Dr. J. Dostal

Dr. E. Lee

Dr. M. Lamoureaux

Dr. R. McCalla

Dr. K. Vaughan

Dr. D. Naulls TBA

To August 2001 Student Senators

Dr. M. Abdul-Masih Ms. Samantha Anderson
Dr. T. Charles Mr. Liam Arbuckle
Dr. S. Crooks Mr. Christian Haggart
Dr. W. Katz Mr. Steven Lane
Prof. S. Walters Mr. Michael Thorboume

Admission

Academic Regulations and Information

Registration

Section

2

Admission

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

Centrally located in the Admissions Office, Room MM 101, McNally Building, the Centre for New Students welcomes all new and prospective students. Students can find answers to their questions, be linked with the appropriate academic departments and support services, and learn more about what the Saint Mary's community has to offer. Students are welcome to drop by 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. Students can drop by the Admissions Office or call 902-420-5415.

Students seeking admission to any academic program (except as noted below in 4), undergraduate or graduate, at Saint Mary's University should address all inquiries, requests for application forms, and correspondence to:

Director, Admissions and Centre for New Students Saint Mary's University Halifax, Nova Scotia B3H 3C3

Telephone: (902) 420-5415 Fax: (902) 496-8100

e-mail: admissions@stmarys.ca;

international: admit.International@stmarys.ca

Helpful Numbers

(i) To arrange a personal interview

(ii) To arrange a presentation by a representative of the Admissions Office

Telephone: (902) 420-5415 Fax: (902) 496-8100

(iii) To inquire about the status of your Application for Admission

Telephone: (902) 420-5111
To arrange a tour of the campus
Telephone: (902) 496-8182

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- 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 non-Canadian 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. If an application cannot be processed due to time constraints, it will be considered for the next available session. Enclose provincial certificates or other accredited school certificates giving final grades or marks, and a processing fee of \$35.00 with the application form.

- b. Applicants who have completed courses at another postsecondary 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 Registrar in writing of their intent to return to the University before registering for any course, and must fill in a Data Sheet available from the Registrar's Office. The deadlines for filing this Data Sheet are the same as those found in 1a.
 - (ii) Former Saint Mary's University students seeking to enrol in a different academic program, or who have not been registered during at least the preceding four years, or 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 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 a S.A.T.U.R.N. (Secure Access to University Restricted Network) PIN under the following terms of personal responsibility:
 - understanding the requirements for the privacy and confidentiality of the PIN and account;
 - 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:
 - to revise this information and its own regulations and guidelines; and
 - (b) to withdraw students' right to access their account for due cause.

Requirements for Admission to Undergraduate Programs **General Considerations**

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. An acceptance is valid only for the two summer sessions preceding an academic year (i.e., May to August) and the academic year (i.e., September to May). It cannot be deferred. An applicant who does not register in this twelve month time frame must reapply for admission. Admission is not guaranteed.

Definitions:

- "Satisfactory grades" means an average in five (a) subjects of 65% and no mark below 60%.
- "Academically recognized subjects" means subjects offered in the university preparatory program of an approved school system.

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:

- Faculty of Arts: English 12 academic plus four additional Grade 12 academic courses, one of which may be an approved open course;
- 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, Physics12 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 Mathematics 12 Academic, plus three other Grade 12 academic courses, one of which may be selected from approved open courses.

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.

Ontario

In order to be considered for admission, students must complete Grade 13/OAC and satisfy the specific subject requirements as noted above in 2b.

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.

United States

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.
- Students must arrange to provide the Admissions Office with a high school transcript, CEEB and SAT score results.

Bermuda

In order to be considered for admission, students must complete Grade 12 with good standing or the British or Caribbean General Certificate of Education (GCE) with 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.

United Kingdom, West Indies, West Africa, Hong Kong and Other Countries

In order to be considered for admission, students must complete the British or Caribbean General Certificate of Education (GCE) with 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.

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
- (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
- 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.

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

- **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:

(a) TESL Centre Saint Mary's University Halifax, Nova Scotia B3H 3C3 Canada Phone: 902-420-5691

Fax: 902-420-5122 e-mail: tesl@stmarys.ca

- (b) Canada Chinese Language Centre Beijing Normal University Beijing 100088 People's Republic of China
- (v) Successful completion of English for Academic Purposes, Level Six, in the Extension English Program, administered by Saint Mary's University.
- (vi) For the IELTS:
 IELTS Scheme Officer
 University of Cambridge Local Examinations Syndicate
 1 Hills Road
 Cambridge
 CB1 2EU
 LIK

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

Note: Non-Canadian students on visas, student authorization, 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.

i. International Baccalaureate and Advanced Placement

Students may be considered for admission providing they have successfully completed the requirements for this diploma program and satisfy the specific subject requirements as noted above in 2b. Currently the University is reviewing the possibility of awarding advanced standing credits from these two programs.

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 420-5492.

- The application procedure for admission as a mature student is as follows:
 - (i) Application forms may be obtained by writing, telephoning, faxing or visiting:
 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@stmarys.ca
 - (ii) Send the completed application form with an application fee of \$35.00; 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 five (5.0) credits as not degree students. If non-degree students wish to continut to study at Saint Mary's beyond five (5.0) credits, 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 credits that they have eamed 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 enrol as non-degree students in Saint Mary's courses for which they have the necessary prerequisites
- (iii) Non-degree students must apply through the Office of the Director of Continuing Education. A separate application is required for each academic year or summer session() 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 C4 If admitted, transfer students may receive advanced standing credit 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 enrol in a course(s) to upgrade their qualifications. Special 'Application for Admission' forms are available in the Registrar's 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. Except in Education the maximum number of courses in which a student is permitted to register under this admission category is five (5.0). The Dean of the Faculty in which a course(s) is offered may authorize an additional course(s) over this limit. In Education, the maximum number of courses permitted is two (2.0). Further information is found in Section 3 of this Calendar, specifically in "General Information and Requirements", Faculty of Education - Graduate Programs.

d. Admission as a Student Auditor

Students who are interested in auditing a course (see Academic Regulation 2 below) are required to complete a special 'Application for Admission' form available in the Registrar's Office which must be filed by the deadlines found above in 1a. Students are required to follow normal registration procedures. These students must meet any stated

prerequisites for the course(s) for which they register and pay regular tuition fees.

Admission as a Special 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 to their home institution, must complete a special 'Application for Admission' form available in the Registrar's Office which, wherever possible, 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 Registrar at Saint Mary's. In all cases, grades for all courses for which students register will be forwarded to the students' home universities. 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.

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. If after being accepted, a student opts not to register for the upcoming summer sessions or the academic year, the I.D. number is cancelled.

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

The information, regulations, and guidelines contained in this section apply to all students at the University. Additional regulations pertaining to the Masters' programs are in Section 3 of this 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 Phroughout 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. Saint Mary's uses DAG's "Degree Navigator" for its academic audit. This web-based product is a powerful and important tool empowering students to be completely upto-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

Senior: one who has 13.0 or more credits: Junior: one who has 8.0 to 12.5 credits; Sophomore: one who has 3.0 to 7.5 credits; and Freshman; one who has 0.0 to 2.5 credits.

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".

Admission

Acceptance of an applicant as a student.

Advanced Standing

Credit 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 Faculty of Science undergraduate program and for the Master of Business Administration Program].

Attendance Status

A student officially registered for at least 3 courses in a semester is considered to be "full-time", whereas a part-time student is registered for less than 3 courses in a semester. See Academic Regulation 1.

Audit

Formal registration for a course(s) for which academic credit is 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.

Bursary

A monetary grant based on financial need. See Section 6 of this Academic Calendar.

Chairperson

Faculty member responsible for an academic area of study.

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.

Corequisite

A course which must be taken concurrently with another course which lists it as a corequisite.

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 - full year course (6 semester hours)

.1 - first semester half-course (3 semester hours)

.2 - second semester half-course (3

.2 - second semes semester hours).

Credit

A unit of academic value earned within a particular program. One credit (1.0) is granted for each successfully completed full year course (designated .0 - l.e., EGL 306.0); a half-credit (0.5) is granted for a successfully completed one-semester course (designated either .1 or .2 - l.e., EGL 201.1 or EGL 201.2). In this Calendar, the term "credit" normally refers to a full credit, i.e., 1.0.

Credit 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.

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 may be earned for only one of the courses.

Dean

Also called Dean of the Faculty; the chief academic administrator of a Faculty.

Elective

A course not specifically required by a student's program of studies. Various types of electives exist, such as "free" and "non-Commerce".

Faculty

When spelled with a capital F, refers to an academic unit offering its own degree, diplorna, and certificate program(s); when spelled with a small f, refers to instructors in a Faculty.

Full-time

See "Attendance Status" above.

Grade

The letter indicating an instructor's evaluation of a student. See Academic Regulation 5 (undergraduate) and Graduate Regulation 6 (graduate).

Honors

The main subject area of study in a degree program, chosen in addition to or in lieu of a major(s).

Instructor

A member of faculty.

Letter of Permission

An official document issued by Saint Mary's to enable its own student to register for a course(s) at another postsecondary institution and to guarantee 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 month.

transfer of the credit for that course(s) to

the student's academic program. See

about this technology.

Academic Regulation 21.

Major

A formal, specific subject area of study within an academic unit as defined by its degree program.

Non Degree Status (NDS) An admission status permitting a studer to take a course although that individual has not been accepted in an academic program at Saint Mary's University. See \$Admission Regulation 4a.

Part-time

See "Attendance Status" above.

Preparatory Course

Nova Scotia Grade 12 equivalent course designed to prepare students for entry level course work. No dtoward any degree, diploma, or certificate. A preparatory course's number begins witl zero (0).

Prerequisite

A course for which credit must have beel earned prior to registration in another course, lab, or recitation which lists it as prerequisite. ["Permission of Instructor of Chairperson" may be listed as an alternative to, or in addition to a given course prerequisite(s).]

Probation

A conditional status assigned to a stude who has shown evidence of academic weakness. See Academic Regulation 7.

Program

An approved combination of courses in a subject area(s) which fulfils the requirements for a degree, diploma, or certificate.

Qualifying Year

Students may be required to complete one or more courses to qualify for a graduate program.

Registration

The process of officially selecting cours labs, and recitations AND making the appropriate arrangements with the Business Office for payment of all required fees. See the "Registration" component of Section 2 of this Academia

Satisfactory academic standing (standard)

Maintaining a quality point average of at least 1.70 if an undergraduate; at least 3.00 if in a graduate program.

Scholarship

A monetary award based on academic achievement.

Semester

A term or period of instruction corresponding to one-half of the acadent year; each semester lasts approximately fourteen weeks. The fall or first semester extends from September to December; the winter or second semester, from

January to April.

First Summer Session (mid May to late June) is also a session or semester as it the Second Summer Session (July to mid August).

A formal, fixed period of time in a calendar, Session 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). Special Student 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.

> Also called a discipline: a specific field of study, e.g., Accounting, Chemistry, History.

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.

Same as "semester".

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.

Credit granted for work completed at another post-secondary academic institution after admission and initial registration at Saint Mary's.

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.

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.

Attaining a degree, diploma, or certificate depends mainly upon earning credits for individual courses required in that academic program. However, progress may be measured in years or levels. Advancement from one year (or level) to the next signifies students having earned credit in the number of courses normally specified on an annual basis for their academic program. The following are the credit totals required for each year of

Year 1: 0.0 - 5.0 credits Year 2: 5.5 - 10.0 credits Year 3: 10.5 - 15.0 credits Year 4: 15.5 - 20.0 credits Year 5: 20.5 - 25.0 credits

Explanation of Abbreviations

Explanation of Abbreviations	
Accounting	ACC
Advanced Management Accounting Program	DMA
(formerly Diploma in Management Accounting)	45
Aegrotat Standing Anthropology	AE
Applied Research Project	ARP
Arabic	ARA
Asian Studies	ASN
Astronomy	AST
Astrophysics Atlantic Canada Studies	ASP ACS
Academic Audit	AA
Audit	AU
Biology	BIO
Business Administration Certificate of Chinese Studies	BUS
Certificate of Crimese Studies Certificate of German Language and Culture	GLC
Certificate of Human Resource Management	
 Management Option 	HRM
 Psychology Option 	HRP
Certificate of Japanese Studies	JPS SHC
Certificate of Spanish Language and Hispanic Culture Certified Management Accountant Program	CMA
Chemistry	CHE
Chinese	CHI
Classics	CLA
Commercial Law	CML
Communication Computer Information Systems	CIS
(formerly Data Processing Management - DPM)	0.0
Computing Science and Business Administration	CSE
(involving emphasis on technical aspects)	
Computing Science	CPS
(with emphasis on Mathematics) Co-operative	COP
Co-operative Education Program in Accounting	COEA
Co-operative Education Program in Biology	COEB
Co-operative Education Program in Chemistry	COEC
Co-operative Education Program in Computing Science Co-operative Education Program in Geology	COEG
Creative Writing	CRW
Credit	CR
Criminology Certificate Program (formerly CCP)	CRM
Data Processing Management	DPM
(now Computer Information Systems - CIS)	
Diploma in Management Accounting (now Advanced Management Accounting Program)	DMA
Directed Independent Study	DIS
Economics	ECO
Education	EDU
Egyptian Engineering	EGP EGN
English	EGL
English for Academic Purposes	EAP
English as a Foreign Language	EFL
English for Personal and Professional Communication	EPPC
English as a Second Language English for Specific Purposes	ESL ESP
Environmental Planning	ENP
Environmental Studies	ENV
Executive Master of Business Administration	EMB
Finance	FIN
Forensic Sciences French	FOR
General Business Studies	GBS
Geography	GPY
Geology	GEO
German	GER GBM
Global Business Management Global Sustainable Development	GSD
	S.Dip.(CRM)
Graduate Diploma in	0.01
International Development Studies	G.Dip.(IDS)

Subject

Summer Sessions

Tem

Transcript

Transfer Credit

Upgrading Sudent

Withdrawal

Year of Study

Human Resource Management -

Greek

Hebrew

Hispanic Studies

Human Resource Management –	
Management Option of	14504
HR Certificate Program	HRM
Human Resource Management –	
Psychology/Management Option of	HRP
HR Certificate Program Human Resource Management (formerly	FIRE
Personnel and Industrial Relations)	PIR
Image Studies	IST
Incomplete	IC
Independent Study Program	ISP
Information Systems	ISS
Information Technology	IT
In Progress	IP
International Business	IBS
International Development Management	IDM
International Development Studies	IDS
Irish Studies	IRS
Italian	ITA
Japanese	JPN
Latin	LAT
Linguistics	LIN
Management	MGT
Management Consulting Project	MCP
Management Science	MSC
Management Studies	MST
Marketing	MKT
Master of Business Administration	MBA
MBA Consulting Project Mathematics Philosophy	MCP
Mathematics	MAT
Philosophy	PHI
Physics	PHY
Political Science	POL
Prior Learning Assessment and Recognition	PLAR
Psychology	PSY
Research Ethics Board (Saint Mary's)	REB
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	DEL
Religious Studies	REL
Religious Studies Secure Access to University	
Religious Studies Secure Access to University Restricted Network	REL S.A.T.U.R.N.
Religious Studies Secure Access to University Restricted Network Co-operative Education Program in	S.A.T.U.R.N.
Religious Studies Secure Access to University Restricted Network Co-operative Education Program in Small Business/Entrepreneurship	S.A.T.U.R.N.
Religious Studies Secure Access to University Restricted Network Co-operative Education Program in Small Business/Entrepreneurship Sociology	S.A.T.U.R.N. SBE SOC
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- 29. Distinctions.....

- 33. Safety and Responsibility in Officially-Sanctioned
 University Activities.....
- 34. Research Ethics Board

GRE

HEB

SPS

HIS

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 student 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 functions and responsibilities delineated in these academic regulations.

- 1. Number of Courses in an Academic Session
- 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 five courses per semester; while it the Division of Engineering, six courses per semester constitute a normal full-time load. Undergraduate students registered for at least three courses in a semester are considered to be full-time, while students registered for fewer than three courses 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. In the case of graduate students, the normal academic and fiscal definitions of full-time and part-time apply as delineated about in this regulation and in Section 6 of this Calendar, except in the instance where official verification has been received by the Registrar from a student co-signed by the Department Chairperson/Director indicating that the individual is working on a full-time basis on a dissertation, thesis, major research paper/project, or is employed on an official Co-operative Education work term for which the student has officially registered. The verification is valid only for a single academic term but can be extended on the authorization of the Department Chairperson /Director. A special form for this purpose is available from the academic unit in which the student is enrolled.
- b. Students who have earned at least five (5.0) credits at Saint Mary's may elect to take up to an additional (1.0) course in regular academic year. Permission is not required for such overload.
- Students may take up to three (3.0) courses during any one summer, i.e., May to August.

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, wip papers, or take quizzes, tests, or examinations. With the

parmission of the instructor, however, they may perform these stivities and receive an informal evaluation of their work. Audited taurses are not given credit or regular grades but the notation of list included on the students' official record. Within the normal lime limits for changing courses (see 13b), students may request taursesion to change from regular registration status in a course to auditing status or vice versa.

Academic Advising

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 of their Faculty (Associate Dean in Arts) who will, if necessary, assign special academic advisors. Students are strongly urged to familiarize themselves with Degree Navigator, the academic audit program. Excellent tracking of student's individual progress and "what if" scenarios can be readily obtained in visual or hard-copy format from this webbased program.

Academic counselling is particularly recommended for the following students:

- all students who are on academic probation as defined in Regulation 7d;
- 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 quality point average of 1.70;
- (iii) all students who do not attain a quality 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)].

Grading System

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.

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.

Undergraduate Rating, Grades and Quality Points

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

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

C- 1.700 0.850) D 1.000 0.500 50-59 Marginal F F .000 .000 0-49 Failure or withdrawa after dead (see 16 be		
Course) A+ 4.300° 2.150°] A 4.000 2.000} A- 3.700 1.850] B+ 3.300 1.650] B 3.000 1.500} B- 2.700 1.350] C+ 2.300 1.150] C 2.000 1.000} C- 1.700 0.850] D 1.000 0.500 50-59 Marginal F F .000 .000 0-49 Failure or withdrawa after dead (see 16 between the second s	Grades	Rating
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A 4.000 2.000} A- 3.700 1.850] B+ 3.300 1.650] B 3.000 1.500} B- 2.700 1.350] C+ 2.300 1.150] C 2.000 1.000} C- 1.700 0.850] D 1.000 0.500 50-59 Marginal F F .000 .000 0-49 Failure or withdrawa after dead (see 16 between the second seed to be seed to	Δ+	
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F .000 .000 0-49 Failure or withdrawa after dead (see 16 be	C-	
F .000 .000 0-49 Failure or withdrawa after dead (see 16 be	D	Marginal Pass
withdrawa after dead (see 16 be		
	F	Failure or withdrawal after deadline (see 16 below)
ONLY for	IP	undergraduate honers

*In November 1997, the Senate of Saint Mary's University voted tohave the A+ grade carry 4.30 quality 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 quality point average:

Aegrotat standing (see No. 12) AE
Authorized withdrawal from course
(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. To receive a passing grade in a course, students normally must complete all course requirements, including all tests and examinations. Students' attention is directed to the fact that those courses carrying double numbers, i.e., HIS 517.0 (617.0) 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. Students who have not completed the work of the course may, in special circumstances and with the prior written authorization of the Dean of the Faculty, be given the grade IC (incomplete) by the instructor. The IC (incomplete) grade will be considered permanent in those instances where students do not complete the work of the course and do not take any steps to have themselves deregistered from the course. The IC grade will be regarded as a failing grade and so calculated into any quality point averages.
- 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 quality points and therefore will not be calculated into any

quality 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 quality 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 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 quality point and cumulative quality point averages. This temporary grade of AI is assigned by the Registrar.
- Once a final grade has been determined, supplementary examinations or any additional assignments for the purpose of changing that grade are not permitted.

6. Quality Point Average

- A quality point average (abbreviation: qpa) is used to determine the standard of a student's performance for the academic year.
- Each letter grade is given a quality point equivalent as described in 5a above.
- The quality point average is computed at the end of each academic year by dividing the total number of quality points obtained that year by the total number of credits taken.
- d. The cumulative quality point average (abbreviation: cqpa) is based upon all courses taken for credit in any Faculty at Saint Mary's after 1 September 1974 other than those for which grades AE, W, or WP have been given. Courses for which grades of F or WF have been given are included in the calculation of the quality point average even if such courses are subsequently retaken and passed.
- e. Grades for courses taken at other institutions for which advanced standing or transfer credit is given are not included in calculations for a quality point average, a cumulative quality point average, or in calculations for determining awards and distinctions.

7. Standing Required

- The regulations governing continuance in a program are those in effect at the time students 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. Satisfactory Standing

(i) To qualify for a Bachelor's degree in Arts, Science, or Commerce; also a Diploma in Engineering, and a Certificate (unless a higher cumulative quality point average has already been formally stipulated); a studen' must achieve a minimum cumulative quality point average of 1.60 for graduation in the spring and fall of 1999; and 1.70 for all graduations from the spring of 20

- (ii) To qualify for a Bachelor's degree in Education, studer are required to maintain a quality point average of at let 2.00. For individual courses the pass mark is D, with the exception of Practice Teaching I, II, and III for which the pass mark is C. No supplementary examinations are provided.
- (iii) To eam a Master's degree, a student must achieve a cumulative quality point average of at least 3.00. For the reason, performance in any individual course below the grade of B or a quality point average below 3.00 in any given semester is considered unsatisfactory (see paragraph 6 in Section 3 of this Academic Calendar).

d. Probationary Status

Probationary status is incurred:

- (i) if, at the end of any academic year (i.e., on or about 1 May), full-time students have attained a quality point average between 1.00 and 1.69 for that year;
- (ii) if, at the end of any academic year (i.e., on or about 1 May), part-time students have attempted at least 5.0 credits and attained a quality point average between 1 and 1.69 (all credits attempted between 1 May of a preceding year and the current year will be included su that at least 5.0 credits have been attempted).
- (iii) on readmission after being required to withdraw becaulof academic weakness [see (i) below];
- (iv) 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.

Removal of Probationary Status Probationary status is removed:

- (i) if, at the end of any academic year (i.e., on or about 1 May) full-time students on academic probation have attained a minimum quality point average of 1.70 on al courses attempted since being placed on probation.
- (ii) if, at the end of any academic year (i.e., on or about 1 May) part-time students on academic probation have earned at least five (5.0) credits since being placed on probation and attained a minimum quality point average of at least 1.70.

Notes:

- (a) Transfer to a different Faculty does not remove probational 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) Probationary notations are retained permanently on student academic records.

f. Required Academic Counselling

Students whose academic performance at the University is unsatisfactory may be required to confer with their academic advisor.

g. Required Withdrawal

At the end of each academic year (i.e., on or about 1 May) withdrawal from the University for a minimum of one calend year is required:

(i) for all students (both full-time and part-time) on acadd

probation who have attempted and earned real grades (i.e., all grades but W's) in at least five (5.0) courses since being placed on academic probation and fail to attain a minimum quality point average of 1.70 on all courses attempted since being placed on academic probation;

- if students on academic probation fail to comply with any specific formal conditions governing their probation;
- (iii) if, at the end of any academic year (i.e., on or about 1 May) full-time students have attained a quality point average less than 1.00 for that year; or
- (iv) if, at the end of any academic year (i.e., on or about 1 May) part-time students have attempted at least five (5.0) courses and attained a quality point average less than 1.00. [All courses attempted between 1 May of a preceding year and the current year will be included such that at least five (5.0) courses have been attempted.]

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 will be given for any course(s) taken at another institution during the period of required withdrawal.

Ad Hoc Tribunal

To ensure as smooth and as equitable a transition to academic regulations concerning the quality points affixed to individual grades as revised in 1996-97 and which became operative for all students on 1 September 1997, Senate established an Ad Hoc Tribunal to resolve any student appeals arising out of the changes in grade eightings, and the new QPA requirements of 1.70 for probation, removal of probation, and graduation. The composition of the Tribunal shall be (i) three faculty members, appointed by the Deans of the Faculties; (ii) a student who has completed at least 50% of her undergraduate program and is not on academic probation, appointed by SMUSA and chosen from among the SMUSA student presentatives in Arts, Commerce and Science; (iii) the Registrar or designate); and (iv) a non-voting Chairperson appointed by Senate. The decisions of this Academic Tribunal are final. A \$25.00 prepaid processing fee, refundable in the case of a successful appeal to the Tribunal, is required with any application. Students are to file their appeal letters and the requisite appeal fee with the

Admission after Required Withdrawal

- 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, 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 fulfil the terms outlined in their letter of readmission. Students failing to satisfy all the terms of readmission may be denied the right to further registration. [See also Regulation 7b.]

whote: Students are advised that all communications concerning 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 pocurate and complete.

Examinations

 At the end of a semester, at the discretion of the Department concerned, a formal examination may be held during the

- special periods set aside for this purpose in December and in April.
- All formal examinations held during the above periods are to be scheduled by the Registrar. The maximum time allowed for each examination is three hours.
- In a two-semester 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 one-semester 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.
- 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. To facilitate this, students can access and print off S.A.T.U.R.N. a copy of their own personal formal examination 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.

Students are required to present their valid Saint Mary's University student identification cards at all tests and examinations for possible verification of their 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 (in the case of Commerce, Science and Education) or the Associate Dean (in the case of Arts) 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 ahnouncement of the test or examination date.
- g. Supplementary examinations are not offered.

9. Evaluations

a. At the end of each semester, instructors will submit to the Registrar, on the forms provided, their evaluations of all students registered in their courses. For full courses (i.e., designated .0), intenm 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:

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; and 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. In 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.

b. First semester Grade Report forms are no longer produced. Students can view their grades in the S.A.T.U.R.N. project approximately twenty-four hours after these have been received and processed. Students who require a hard copy of their grades can print an unofficial copy off S.A.T.U.R.N. or order an official or unofficial copy of their transcript. See academic regulation 32.

- 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 mailed to the students' permanent addresses, unless an alternate address card has been duly filed with the Registrar by the advertised deadline.
- d. In the case of courses taught over the first three weeks of a summer session, final grades will no longer be posted outside the Registrar's Office because they are available on S.A.T.U.R.N. Grade Report forms will be processed and mailed 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.
- 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.
- Grades given at the end of a semester shall not be made known to students except by the Registrar.
- 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:
 - 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.
 - The standard grading system (see Academic Regulation 4) will be followed.
- c. Special examinations will be scheduled by the Registrar. Except in the case of a(iii) above, a pre-paid processing fee of \$10.00 for one examination and \$20.00 for two or more examinations will be charged. This fee is to be paid the Registrar prior to the examination being written.

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 their appeal to the Committee on Academic Appeals. This must be done in writing, through the Registrar, within three months fro the last day of the semester in which the course is tal This appeal statement must contain specifics as to w the instructor, the Chairperson, and the Dean were consulted, together with any other information the stu considers relevant.

- (ii) It is the responsibility of students and instructors to provide the Committee with all relevant available mate 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 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 procedushall be as follows:

- (i) Normally within one month of the event or the decision being received by students, they shall submit their ap in writing and direct it to the Committee on Academic Appeals through the Registrar.
- (ii) The Chairperson of the Committee on Academic App shall forward a copy of the appeal to the Dean of the appropriate Faculty, and, if relevant, to the Chairpers of the Department and the instructor.

c. Decision

Within one month, if possible, of receiving any appeal under (a) (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 Execu 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 writt to the Secretary of Senate who shall forward the apptogether with all previously considered evidence to the Executive Committee of Senate for its consideration.
- (ii) Within one month of receiving the appeal, the Execut Committee shall render and communicate its decision through the Secretary of Senate to the Registrar, who turn shall communicate the decision to the student are the Committee on Academic Appeals and take any further required action.
- (iii) The decision of the Executive-Committee shall be fin-

e. Fee

All appeals to the Committee on Academic Appeals r be accompanied by a payment of a \$25.00 fee. Furth appeal under (d) above requires an additional paymer \$25.00. In the event of a decision favorable to the appellant, all payments will be refunded.

Motes:

- Appellants may ask or be asked to appear before the committee(s) hearing their appeal.
- Members of a committee cannot participate in the hearing of (b) an appeal arising from an action to which they were a party.

12. Credit without Final Examination

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

13. Course Changes

- 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.
- For all these changes the period of time required from the first official day of classes is five working days during both the academic year and a summer session.
- Changes can be effected only by filing with the Registrar a Change of Registration form indicating the desired change(s). Consult the Calendar of Events for specific dates.
- 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. Tuition tees are charged from the first day of classes, even when a student mgisters late.

- Students cannot be registered in a course, lab, or recitation which has reached its maximum enrolment and hence regarded as full. In exceptional circumstances, heads of academic units (i.e., chairperson, subject area representatives, directors of divisions, or area coordinators) may authorize a student officially pursuing a Saint Mary's degree, diploma, or certificate program to register in a closed course, lab, or recitation. Special permission forms required for this authorization are distributed only to those with signing authority.
- Only in extraordinary cases will a Dean or Associate Dean authorize any change(s) to registration after the stipulated deadline. Special authorization forms must be used.
- With respect to second semester courses (i.e., those designated as .2), once the regular designated change of registration period is over, students can undertake registration at the Registrar's/Records Office until the second Friday of December. A monitor mounted above the door adjacent to Room MM134 shows which courses and sections of courses, labs, and recitations are closed and hence unavailable for students' registrations. From that date in December until the reopening of the University in January, no registrations or

changes of registration can be undertaken. It is not possible to submit change of registration requests via S.A.T.U.R.N. during a formal registration/change of registration period.

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

- 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 ten (10.0) credits 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.
- 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.
- Commencing on 1 September 1997, the following regulations govern a student's minor:
 - Ordinarily a student can declare only one minor but that can be extended to two with the permission of the Dean (or designate) of the Faculty.
 - A minimum cumulative quality point average of 2.00 is required for courses designated for a minor program.
 - Consistent with individual faculty requirements, a range of courses between four (4.0) and five (5.0) 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.
- 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 credits 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 probation at the time of authorized transfer of Faculty or academic program automatically remain on 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 half-credit courses, after the time limits indicated in 13b above have expired, and provided the half-course still has one quarter of the instruction time remaining, students may withdraw from the course. In the case of full credit 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 to be the same as individual courses. Hence academic regulations, procedures, and deadlines apply to all types of changes.

Notes

- (a) All withdrawals must be made officially on Change of Registration forms available from the Registrar. Should it not be possible for students to obtain such a form they can submit a request for a course change via S.A.T.U.R.N. 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.
- (b) 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 quality points for the year and for the degree, each course counts only once as a credit in the academic program.
- b. In the cases where courses have been renumbered, changed in level, or where a full credit course has been split into two half-credit 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.

c. Students will not ordinarily be given credit for a course teles 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 derethe right to continue at the University by the Dean of their Facult

19. Academic Responsibility

a. University students are expected to have a reasonable measure of self-discipline and maturity. While the University 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 student

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 are 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 see the advice of the instructor before submitting the work. The above definition of plagianism is not restricted to literary works and applied to all forms of information or ideas that belong to another (e.g., computer programs, mathematical solutions, scientific experiment graphical images, or data).

Submission of the same piece of work for credit in more than one course is usually 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

- arranging for someone to impersonate oneself at an examination or the impersonation of another at an examination;
- 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 fill 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 dismissa from the University. The University reserves the right to share this information with the members of the Association of Universities at Colleges of Canada (A.U.C.C.).

t 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 are not permitted.

. Sanctions

bually, 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 budent, Deans of the Faculty In which the student is registered and/or the Faculty in which the course is taught, and Registrar, in witing, of the offence.

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;
- (lii) suspension from the University;
- (iv) dismissal from the University:
- (v) revocation of degrees, diplomas or certificates.

mithdrawal from a course prior to the discovery of the offence does not restrict the University's right to take action. Further information found below in the Student Discipline sub-section of Section 8.

. Advanced Standing

University and Other Post-Secondary Institutions

Mer an official transcript has been received by the Registrar, and widing the students have identified the subject area(s) in which be intend to major or declare an area of concentration, students insferring from other recognized universities or post-secondary intended to an academic program at Saint Mary's may be given be an extending credit, if appropriate, in consultation with the Dean of the Faculty. To obtain a first baccalaureate degree or a successfully complete a minimum of 50% of the credits of their academic program at Saint Mary's, of which a minimum of four (4.0) credits must be in the students' major or area accentration. In the case of students in an honors program, the minimum number of credits required to be taken at Saint Mary's is of the courses stipulated for their program, of which a minimum of ten (10.0) credits must be in the subject(s) of honors.

students admitted to the Faculty of Commerce, there is a social agreement for Transfer of Credit from The Nova Scotia munity College. For further details, consult Section 3 of this

Section 2 Undergraduate Programs, Faculty of Commerce, or the or Associate Dean of Commerce.

wies:

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.

Advanced standing will be given only for courses with sisfactory 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 and emic program at Saint Mary's. In doing so, however, the dearly 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 transfer credits from other post-secondary institutions. In short, therefore, students who have courses transferred in apportance 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] be accepted for advanced standing credits. 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.

- (iii) 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 credits that students must complete to satisfy their academic program is final.
- (iv) Students receiving advanced/transfer credits are advised to consult carefully Academic Regulation 29 concerning the minimum number of credits at Saint Mary's University required to qualify for a distinction.

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 Office of Continuing Education

For further information on credit granted for work done prior to admission to Saint Mary's, see Admission Requirements.

21. Transfer Credit

- a. While registered at Saint Mary's University, students may be authonzed by the appropriate Dean to take a course(s) at another academic institution for transfer credit to an academic program at Saint Mary's. Students applying for such permission must provide the Registrar with a full description of the course(s) involved. The description from the 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 are 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 credits are to be followed. In addition, proof must be presented that the institution offering the correspondence course also recognizes it for credit purposes toward an academic program.
- Before transfer credit(s) 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. However, the Deans have the authority to stipulate a minimum grade which

must be attained to transfer a particular course. 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 will be given for courses with grades below B (or the equivalent).

Note: Students should note that at least 50% of all courses 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(s) for the course(s) taken at another institution and to cancel that student's acceptance and/or registration at Saint Mary's University.
- 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 credits 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 such as the Criminology Certificate Program. 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. Also see Registration Regulation 6
- 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 cumulative quality 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 credits required will be 50% of the number stipulated for a first undergraduate degree. Specifically, therefore, for a Bachelon of Arts degree and a Bachelor of Science degree with a concentration, a minimum of 7.5 credits will be required; for Bachelor of Science degree with either a major or honors, as well as a Bachelor of Commerce degree, the minimum number of credits will be 10.0. 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 credits at Saint Mary's. Any credits 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 approprial application form available from the Office of Admissions at least three months prior to the academic session in which the expect to officially register for that second degree program.
- 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 Admission Office at least three months prior to the time when they anticipate beginning this programme. The academic administrator of that specific programme 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 confirm nor can a student register until this process has been completed.
 - (ii) Students who hold a degree from a recognized postsecondary 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 programme at Saint Mary's University, including all courses specified in individual programme requirements.
 - (iii) In addition to regular degree programmes, the undergraduate certificate programmes to which this regulation applies are:
 - Certificate of Chinese Studies (CHS)
 - Certificate in German Language & Culture (GLC)
 - Certificate of Human Resource Management
 (Management Option: HRM or Psychology Option
 (HRP)
 - Certificate of Japanese Studies (JPS)
 - Certificate of Spanish Language & Hispanic Cultu (SLH)

The undergraduate diploma programs to which this regulation applies are:

- Diploma in Engineering
- Diploma in Forensic Sciences

(iv) Students are advised to check carefully the cumulative quality point average requirements for the specific certificate or diploma programme in which they plan to enrol

i. Certificate of Honors Equivalency

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 for the appropriate honors program.

Students who have earned a first undergraduate degree from another post-secondary institution are not eligible for the Certificate of Honors Equivalency but may enrol as upgrading students if they wish to take additional courses to qualify for admission to a Master's degree program.

Convocation Dates, Degrees, Diplomas, and Certificates

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 and pay the graduation fee. This fee does not have to be paid when the application is filed. 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 twice the normal graduation fee or permitted to wait until the next Convocation in order to graduate. If during the course of the students' 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 reapply for graduation, and the above-noted deadlines will apply as will the Registrar's discretionary authority.

Normally there are two Convocations annually, in May and in October. 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 certificate program.

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 in the academic regalia appropriate to their academic program at Saint Mary's University.

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.

The University grants the following degrees:

Bachelor of Arts
Bachelor of Commerce
Bachelor of Education

B.A. B.Comm. B.Ed.

Bachelor of Education (Vocational Education) Bachelor of Education	B.Ed.(Voc.)
(in Association with The Nova So	otia Teachers
College)	B.Ed. (N.S.T.C.)
Bachelor of Science	B.Sc.
Master of Arts	M.A.
Master of Business Administration	M.B.A.
Master of Education	M.Ed.
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 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	CHS
Certificate of German Language and Culture	GLC
Certificate of Human Resource Management	CHR
Certificate of Honors Equivalency	
Certificate of Japanese Studies	JPS
Certificate of Spanish Language and	
Hispanic Culture	SHC
Co-operative Education Certificate	Coop
Diploma in Engineering	Dip.Egn.
Diploma in Forensic Sciences	Dip.For.
Graduate Diploma in Criminology	G.Dip.(CRM)
Graduate Diploma In International	
Development Studies	G.Dip.(IDS)

- 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.
- g. Students whose accounts 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 in addition to the graduation fee 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 quality point averages in respect of the courses specified in (b) below.

Program:	Quality	Distinction:
B.A., B.Sc., &	Point	Diploma in
B.Comm.	Average	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 quality 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 quality 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:

12.0 courses Honors: 17.0 courses B.A. Major: 15.0 courses Honors: 17.0 courses B.Comm. Major: 15.0 courses B.Sc. Concentration: 12.0 courses Major: Honors: 17.0 courses

B.Sc./Dip.Egn. 12.0 courses 10.0 courses Dip.Egn.

The only exception to this is when the student has earned the equivalent of five (5.0) credits at Centre international d'etudes 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.

No distinctions are awarded in graduate, education, and certificate programs.

30. University Medals

At each Spring Convocation the following are presented:

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.

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 quality point average. Medals are also presented to the students with the highest cumulative quality point averages in the M.A.(IDS); M.Sc.(Applied Psychology); M.B.A., and E.M.B.A. graduate programs.

Notes:

- In the case of undergraduate degrees and diplomas, the cumulative quality 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.
- Students who graduate at Fall Convocation will be considered for medals at the next Spring Convocation.

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 routes by which students may qualify for placement on the Dean's List:

- At the end of each academic year (i.e., on or about 1 May), full-time students whose quality 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 five (5.0) courses during that academic year, have achieved a minimum quality point average of 3.67, and received no "F" grades. In instances where Saint Mary's has authorized a student to enrol 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 five (5.0) and which gives the required minimum quality 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.
- For students registered in less than five (5.0) courses in an academic year to qualify for placement on the Dean's

List, they must have taken and completed overall at lea five (5.0) courses. They must have achieved a minimu quality point average of 3.67 and received no "F" grade on these courses. After having been placed on the Dean's List, these students must take at least five (5.0) additional courses 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 academ records.

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 thos 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.

32. Students' Academic Records and Transcripts

- 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 govern 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. 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 chart 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.
- Students' transcripts of records are privileged information and to that end will not be released by the Registrar to those 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.
- To request a transcript, students must complete the appropriate form obtainable from the Registrar or mail or fax 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 te working days, additional time will be required at peak period

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. the following day.

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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

script cost; faxing, and if applicable, courier charges. It is commended that transcripts be picked-up when ready. Students wish to have a transcript mailed should be aware that outgoing does not leave the University after 1:30 p.m. daily.

Exput Periods

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

Ther information as to timeframes and costs is available on west. Transcripts include the following information:

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

Where appropriate, reference is also made to:

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

IDEOTE: All transcripts carry only the student's birth month and day, the birth year.

The cost is \$5.00 for each 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

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

counered only after the requisite fees have been received and processed at the University.

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

Students undertaking sanctioned international activities are required to follow the short series of procedures which the University has identified as being compulsory prior to a student being involved in that international activity. These procedures include a pre-departure briefing(s); the signing of a liability waiver form; and registration as appropriate to the activity. Students are advised that adequate notice (6-12 weeks) is frequently needed, particularly in those instances where visas will be required for the international travel. Additional information can be obtained from the International Activities Office, located in The Oaks, 5920 Gorsebrook Avenue, adjacent to the University campus.

34. University Research Ethics Board (REB)

It is the responsibility of any student carrying out research involving human subjects to get approval from the University Research Ethics Board (REB) for their research. Submissions to the REB should be made through the thesis supervisor.

Registration

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Procedures

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, approximately mid to late July and also available on the web.

Automated Registration in August

The procedures by which students register will be announced in the 2007-2002 Registration Book. Basically it will consist of regular registration in person by mail, by fax, or by submission through the web in late July to early August. This will be followed by a change of registration period conducted in person on campus or with students submitting their requests via the web. Students are expected to have completed their registration prior to the beginning of classes which, for 2001, is Wednesday, 5 September.

3. Late Registration

The University strongly discourages students from registering late. In very exceptional circumstances and providing the Dean of the student's Faculty concurs, a student may register late in whatever courses, sections of courses, labs, and recitations still having seats remaining in them upon payment of a late registration fee. Special forms, available only from the Deans and Associate Deans and valid only for twenty-four hours from the time of authorization, must be obtained before a student can proceed with Late Registration.

4. Change of Registration: Courses, Labs, and Recitations
The 2001-2002 Registration Book contains detailed information on
the timetable and procedures for this process.

5. 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; only the Registrar can officially process these changes. Changes made in any other way, formally or informally, are not honored.

6. 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.

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

In order for students to 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 2001-2002 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.

8. Alterations in Timetable

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

9. Cancellation of Courses

If the number of students registered for a course is insufficient to warrant 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.

10. 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. Further details are available in the pamphlet entitled "Your Address and the Registrar's/Records Office". Copies can be obtained at the Registrar's Office (MM134).

11. Identification Cards

At the time of first registration, students are required to purchase I.D. card at a cost of \$5.00. This card is issued upon presentation of the Registration Receipt. These I.D. cards provide students we an official University identification which can be required for the writing of examinations and tests. (See above Academic Regula 8e.) These cards also serve as Library cards, permit computer terminal use, allow access to The Tower (Fitness and Recreation Centre), and enable students to qualify for discounts at some loop businesses.

Each subsequent year I.D. cards are validated during registration. There is no charge for validation. A replacement card costing \$10.00 for lost or damaged cards will be issued with proof of val registration.

Students who have not received their I.D. card during registration can obtain one at the Library.

12. Special Hours for Registrar's/Records Office

Students are advised that during formal registrations, the Registrar's Office itself is not always open, as all key personnel be assigned to work the registration system in other physical locations. At other times, this Office may have to close for short periods of time in order to accommodate the processing of form and/or in compliance with the terms of employment for unionize personnel working in this administrative unit. Throughout the yet when classes are on, this office is open on Monday and Tuesda nights until 6:00 p.m. The Office normally does not close at lund hour. Special hours of operation also apply on Convocation Day

13. The World Wide Web: www.stmarys.ca/reglstrar

The Registrar's Office is continuing its World Wide Web development. You can access the 1998-99, 1999-2000, 2000-20 and 2001-2002 Academic Calendars, course descriptions, progra requirements, and the latest tuition information along with Orientation 2001 functions, dates, and times, once this has been organized. Students are strongly encouraged to use this to obtain up-to-date information.

In the fall of 1997, the Secure Access to University Restricted Network (S.A.T.U.R.N.) was launched. With a PIN, students can access such data items as the academic timetable, complete will open and closed course indicators; their own courses, their personal examination schedules, their own grades (for the current academic session), can submit requests to change their address(es) as well as requesting courses to be added or dropped.

Further options are being developed continuously. Watch for pild projects.

Faculties and Programs

Section

3

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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
Doctor of Philosophy in Business Administration (Management) .
Science
Master of Science in Astronomy
Master of Science in Applied Psychology
Education
Master of Arts in Education
Master of Education

Faculty of Arts

Dr. Michael J. Larsen, Dean

Or. Donald J. Naulls, Associate Dean

General Information

The Faculty of Arts offers programs of study leading to the degrees of Bachelor of Arts, Bachelor of Arts (Advanced Major), Bachelor of Arts (Honors), and Master of Arts. The last of these is available in Atlantic Canada Studies, Criminology, History, International Development Studies, Philosophy, and Women's Studies. In addition, undergraduate certificate programs are offered in Chinese Studies; in German Language and Culture; Japanese Studies; in Spanish Language and Hispanic Culture. At the graduate level programs are offered leading to Graduate Diplomas in Criminology; also in International Development Studies. Graduate level courses in Geography are also offered.

The primary purpose of the Bachelor of Arts program is to provide a sound basic education in the liberal arts, combined with a study in some depth in at least one subject or other area of concentration. The Bachelor of Arts (Advanced Major) offers both depth and diversity, and students should seriously consider this option. The honors program is designed for students of above-average ability, especially for those who intend to proceed to graduate work or who seek a professional career in the area of the honors subject(s). It requires greater specialization, and a higher level of performance, than the ordinary Bachelor of Arts program, and includes courses specially designed for honors students.

Proficiency in English

For the Bachelor's degree, students are expected to be able to expete themselves clearly and cogently in the English language.

To this end, instructors in all subjects attach great importance to close expression and to the capacity to sustain a coherent argument (swell, of course, as to substance and relevance) in assessing written work. Students who are deficient in this area are therefore strongly advised to take immediate steps to remedy that deficiency, and in particular to use the compulsory courses in English to maximum advantage. Otherwise, however industrious they may be, and how extensive their knowledge, they may have difficulty in accumulating sufficiently high grades to qualify for graduation.

In a nation that is officially bilingual it should be unnecessary to polout the added advantage of acquiring a working knowledge of the French language.

Although the time required for study and review will vary from course, students should expect to devote a total of nine hours per course per week (including class periods and private study). Normal this will mean spending about two hours of private study time for earhour of class time. Term papers and lab exercises may require additional time. Students should note that some professors may include class attendance in their course grading scheme.

Faculty of Arts -**Undergraduate Programs**

quirements for the Degree of Bachelor of Arts with a Major Advanced Major

manary of Requirements for a Bachelor of Arts Degree with a or Advanced Major

Total number of credits required: 15.0 for a major (see below - Arts regulation 1); 20.0 for an advanced major (see below -Arts regulation 1)

300-level or higher Arts credits required: 8.0 for a major; 11.0 for an advanced major

General Arts credits requirements: 5.0 (see below - Arts regulation 3)

Credits required for major: 6.0 - 8.0 (see below - Arts regulations 4 and 5; also departmental/subject area requirements, found in Section 5)

Cumulative quality point average for major: a minimum of 2.00 (see below - Arts regulation 7; also

departmental/subject area requirements, found in Section 5) Cumulative quality point average for graduation: 1.70 in the year 2000 and beyond [see academic regulation 7c(ii)]

Subject to the regulations set forth in this Calendar, for the chelor of Arts degree students must complete the equivalent of en (15.0) credits for a major; twenty (20.0) for an advanced or, with a minimum of eight (8.0) credits in recognized Arts jects at the 300 level or higher for a major; eleven (11.0) for an conced major. Courses which begin with zero (0) are designed prepare students for entry level course work and will not be dited toward any degree, diploma, or certificate.

During the regular academic year, a full-time student will mally take five (5.0) credits but may opt for an additional credit Permission is not required for such an overload.

Students must complete:

Any two of English 201.1(.2), 203.1(.2), and 204.1(.2) or, at discretion of the Chairperson of the English Department, an mative credit in English;

the equivalent of one (1.0 or 0.5 plus 0.5) credit from the

coophy 200 (Basic Logic) (No other Philosophy course Res this requirement.)

Mathematics [including MSC 205.1(.2); MSC 206.1(.2); MSC 1(.2); and MSC 225.1(.2)]

a language other than English

a natural science (except Psychology);

the equivalent of one (1.0 or 0.5 plus 0.5) credit from among maining humanities (Classics, History, Philosophy other PHI 200.0, and Religious Studies); and

the equivalent of two (2.0) credits, one (1.0 or 0.5 plus 0.5) redit from at least two of the following social sciences: Geography, Political Science, wchology, and Sociology.

time students must attempt to fulfil these requirements in their st year. It is hoped that they will thereby be introduced to the asic skills required for university study, and be exposed at the moductory level to a variety of disciplines. Students with special meests can, with the Dean's permission, fulfil some of these in eir second year.

Majors

later than the beginning of Year 2, students must declare the ticular subject(s) in which they wish to major, or alternative reas of concentration. The following are recognized as Arts subjects 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 coordinators. Alternative areas, tailored to the needs and interests of particular students, may be devised and approved by the Dean of the Faculty. Once major subjects or areas of concentration have 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 areas of concentration. While a subsequent change of major subjects or areas of concentration 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.

In addition to satisfying requirement 3, students must complete the equivalent of not fewer than six (6.0) credits in the subject of the major or in the chosen area of concentration; but may count among these six any relevant course(s) taken in fulfilment of requirement 3. Not fewer than four (4.0) of the six (6.0) credits must be at the 300 level or above. No department may require more than eight (8.0) credits in the major subject.

Non-Arts Credits

Within the limits imposed by these regulations, students may count towards a Bachelor of Arts degree, the equivalent of up to three (3.0) credits from outside the range of recognized Arts subjects as specified in requirement 4. The Dean of the Faculty may authorize an extension of this upper limit to meet special program requirements or where there are sound academic reasons for doing so.

Students registered in the Faculty of Arts should note that certain course offerings in the Faculty of Commerce are acceptable as Arts credits. These are MGT 383.1(.2); MGT 384.1(.2); MSC 205.1(.2); MSC 206.1(.2); MSC 207.1(.2); and MSC 225.1(.2). Other Commerce (also Science and Education) courses to a maximum of 3.0 may be taken in a Bachelor of Arts program but they cannot be counted as Arts credits.

In order to have major subjects or areas of concentration formally entered upon their records, students must have maintained a minimum cumulative quality point average of 2.00 (or an average grade of C) in the courses specified in requirement 5, and must have fulfilled any additional requirements specified by their departments or areas of concentration. Students who fail to achieve this average may, provided that they fulfil all other requirements, graduate as non-majors.

Students 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 Classics and 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 they must complete at least four (4.0) credits [at least five (5.0) credits in Mathematics] in that particular subject or area of concentration. At least two (2.0) of these credits must be at the 300 level or above. For more specific departmental requirements, consult the departmental statements in Section 5 of the Calendar.

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 and that while students may take a minor in another faculty, they must fulfil the requirements of the degree in which they are registered, including officially declaring and

fulfilling the requirements for a major or honors (or in the case of Science, a concentration). Students are advised that majors, honors, 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

A minor in the Faculty of Commerce is available for students pursuing a Bachelor of Arts or Bachelor of Science degree. This consists of the equivalent of five (5.0) credits, namely:

ACC 241.1(.2) Introductory Accounting
ACC 242.1(.2) Introductory Accounting
CML 201.1(.2) Legal Aspects of Business
COM 293.1(.2) Managerial Communications
MGT 281.1(.2) Introduction to Business Management
ACT 383.1(.2) Organizational Rehavior

MGT 383.1(.2) Organizational Behavior MKT 270.1(.2) Introduction to Marketing MSC 225.1(.2) Introduction to Computers One 1.0 elective credit in Commerce subjects.

d 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 fulfil 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).

- 9. It is also possible to declare a double major, in which case the students must fulfil 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.
- 10. In conformity with academic regulation 7c(i) students must achieve a minimum cumulative quality point average of 1.60 (in 1999; then 1.70 in the year 2000 and thereafter) in order to qualify for graduation.

11. Requirements for the Degree of Bachelor of Arts -

- a. The Faculty of Arts offers honors 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 honors in any two of these subjects.
- b. The following represent the minimum requirements for admission to, continuance in, and graduation from an honors 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.

12. Admission Requirements for Honors Program

- a. Normally, after having taken at least three (3.0) credits in the discipline, or in certain cases at the conclusion of their second university year, students should make application for admission to the honors program on the special form obtainable from the Registrar.
- b. The normal prerequisite for honors is a minimum cumulative quality point average of 3.00. Students, however, will be assessed on the basis of their overall academic record.

- Requirements for Continuance in and for Graduation with Honors
- a. Students must earn a minimum of twenty (20.0) credits.
- b. To continue in the program, students must achieve a minimu cumulative quality point average of 3.00. Students are advised th some academic units have stipulated a higher minimum cumulative quality point average.
- c. To graduate, students must achieve a minimum cumulative quality point average of 3.00. Students are advised that some academic units have stipulated a higher minimum cumulative qua point average.
- d. Students must complete not fewer than ten (10.0) credits in honors subject, of which eight (8.0) must be at the 300 level or ab Each year the students' programs must have the approval of the Chairperson of the department who may permit the substitution of to two (2.0) credits from a related subject area as part of the ten (credits required.
- e. In the courses presented to satisfy 13d, students must have minimum quality point average of 3.00 with grades of B or higher least eight (8.0) credits and no grade lower than C (2.00).

14. Requirements for Graduation with Double Honors

- a. For a double honors degree, students must complete not few than seven (7.0) credits in each of two honors subjects. At least to (10.0) of these credits must be at the 300 level or above, including minimum of four (4.0) in each subject. Each year, the students' programs must have the approval of the Chairpersons of both departments involved.
- To continue in the program, students must achieve a minimu cumulative quality point average of 3.00.
- To graduate, students must achieve a minimum cumulative quality point average of 3.00.
- d. In the courses presented to satisfy 14a, students must have minimum quality point average of 3.00 with grades of B or higher least eleven (11.0) credits, and no grade lower than C (2.00).

Additional Requirements for Graduation with Honors and Double Honors

For honors, students must complete the requirements for the Bac of Arts degree as outlined in the *Calendar* (see no. 3), and any additional requirements of the relevant department(s)/subject are:

- 16. Students who fail to meet the requirements for an honors deput who otherwise meet the requirements for the general degree, formal application, should be awarded the general degree.
- 17. In addition to the overall quality point average noted in 13 ab every student in honors must attain a minimum quality point avera 3.00 in the honors subject(s), with grades of C in no more than tw (2.0) credits, and no grade lower than C, in the same subject(s). Students are advised that some academic units have stipulated a higher minimum cumulative quality point average.

18. Co-operative Education Programs

At the present time, the Department of Geography and Sociology temporarily suspended offering their Co-operative Education prog

Certificate of Chinese Studies (CHS)

Canada is an integral part of the Pacific Rim, an area of rapid economic and political change. This certificate program in

knowledge to persons interested in studying about or in China. The program consists of four (4.0) credits. It is indeed for undergraduate students, persons already holding prees in any discipline, and mature students with relevant work pience.

mission

Certificate of Chinese Studies requires a formal application admission. The official approval of the Asian Studies admission is a prerequisite for admission to the program. Lents majoring in Asian Studies at Saint Mary's University are Egible for this program.

audent of the program must complete at least three (3.0) at Saint Mary's University. Relevant academic courses, experience and linguistic capability may be considered for Applicants should submit a resume of relevant work linearce, official university transcripts and any other relevant mentation.

noram Courses

s program consists of two (2.0) required credits and a number uptional credits. All students are required to take Chinese 100.0 oductory Modem Chinese) and Chinese 200.0 (Intermediate carn Chinese). Students must also select two (2.0) optional is in at least two different disciplines from the following

326.1(.2); ASN 300.1(.2); ASN 310.1(.2); ASN 450.0; HIS 3.0; HIS 342.0; HIS 396.1(.2); REL 327.1(.2); REL 345.1(.2). Least two (2.0) credits must be at the 300 level or above. Lealed descriptions are found under Departmental listing. Not all the sessible offered each year.

muirements for Graduation

dents are encouraged to complete the program within five as. A minimum cumulative quality point average of 2.00 in the ficate of Chinese Studies is required. Students who have pleted all the courses without being officially admitted to the sam will not be accredited.

ertificate in German anguage and Culture (GLC)

many plays an Important role in the evolving political and a comic reality of western Europe. The certificate program in coman language and culture is designed to provide linguistic cultural knowledge to persons interested in studying and/or thing in a German-speaking country.

g program consists of four (4.0) credits and is intended for our graduate students and persons already holding degrees in discipline.

hission

bission to the program leading to the Certificate in German puage and Culture requires a formal application for admission to the official approval of the Coordinator for German Studies. The cation forms are available from the Registrar. Students pring in German at Saint Mary's University are not eligible for this parm. Three (3.0) of the four (4.0) credits must be completed at lit Mary's.

eram Courses

program consists of two (2.0) required credits in language—GER 0 and/or 200.0 and/or 302.0—and a number of optional credits. Be optional credits must be at the 300-level or above, and will be ten from the following courses:

	11
GER 331.1(.2) Introduction to Business German	• • • •
GER 304.0 German Culture and Civilization	2,8
GER 310.0 Modem German Literature	
GER 400.0 German Contemporary Literature	4
HIS 304.0 Europe 1848-1989	
HIS 343.0 To The Great War	

Other course choices are possible, subject to the approval of the Coordinator for German Studies.

Requirements

A minimum cumulative quality 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.

Certificate of Japanese Studies (JPS)

Canada is an integral part of the Pacific Rim, an area of rapid economic and political change. 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 four (4.0) credits. 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 three (3.0) credits at Saint Mary's University. Relevant academic courses, work experience and linguistic capability may be considered for credit. Applicants should submit a resume of relevant work experience, official university transcripts and any other relevant documentation.

Program Courses

This program consists of two (2.0) required credits and a number of optional credits. All students are required to take Japanese 100.0 (Introductory Japanese) and Japanese 200.0 (Intermediate Japanese). Students must also select two (2.0) optional credits in at least two different disciplines from the following courses:

ANT 326.1(.2); ANT 327.1(.2); ASN 300.1(.2); ASN 302.1(.2); ASN 303.1(.2); ASN 410.1(.2); GPY 360.1(.2); HIS 324.0; HIS 392.0; HIS 396.1(.2); REL 327.1(.2); REL 340.1(.2).

At least two (2.0) credits must be at the 300 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 quality 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.

Certificate in Spanish Language and Hispanic Culture (SHC)

In the wake of Spain's transition from dictatorship to democracy, the country has assumed an important role in the political, economic, and cultural life of Western Europe. Within our own hemisphere, Spanish-speaking Latin America continues to be an

important trading partner for Canada. More than 225 million people in the world today have Spanish as their first language.

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 four (4.0) credits 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. Three (3.0) of the four (4.0) credits must be completed at Saint Mary's.

Program Courses

The program consists of two (2.0) required credits in language, SPA 100.0, and/or 200.0, and/or 230.1(.2), 231.1(.2), and/or 302.0, and a number of optional credits. These optional credits must be at the 300 level or above, and will be chosen from the following courses:

SPA 304.1(.2)	Americas: The Changing Face of Latin America
SPA 305.1(.2)	Contemporary Spanish Society
SPA 402.0	Contemporary Latin-American Literature
SPA.405.0	20th-Century Spanish Literature
HIS 375.0	Modem Latin America
HIS 385.0	Aspects of Global History

Other course choices are possible, subject to the approval of the Coordinator for Spanish.

Requirements for Graduation

A minimum cumulative quality point average of 2.00 in this certific program is required. Students who have completed all the course without being officially admitted to the program will not be accredit

Dual Bachelor Degree Progran

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

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

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

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

Second Undergraduate Degree

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

Information concerning the Faculty of Arts programs at the graduate level is found later in this Calendar.

The Frank H. Sobey Faculty of Commerce

Dr. Paul Dixon, Dean Dr. Linda Van Esch, Associate Dean

General Information

In August 1992, the University paid tribute to one of Canada's premier business leaders by naming its Faculty of Commerce in honor of the late Frank H. Sobey, who founded Empire Company Limited, Stellarton, Nova Scotia. Its holdings include Sobeys Stores, Atlantic Shopping Centres, Empire Theatres, Lawton's Drug Stores, as well as extensive investments both nationally and internationally. In 1999 it became the second largest food retailer in Canada with the acquisition of the Oshawa Group.

The Faculty of Commerce offers programs of study leading to the degrees of Bachelor of Commerce, Bachelor of Commerce (Honors) in Economics, and Master of Business Administration (including Executive Master of Business Administration). The purpose of these programs is to prepare students for meaningful careers in business and government.

The undergraduate program has a co-operative education option. All programs, except the Executive Master of Business Administration, can be completed on a part-time basis involving evening and summer study. A certificate program is offered in Human Resource Management, with a Management option (HRM) or a Management/ Psychology option (HRP). See Section 4 of this Calendar for further information.

The bachelor degree programs couple a broad educational foundation in English, Mathematics and other liberal arts subjects with the study of a common body of business and economic knowledge. Students have the opportunity to attain an appropriate

degree of specialized expertise in Accounting, Economics, Fina Management, Marketing, Computing and Information Systems, Global Business Management, Human Resource Management Industrial Relations, as well as Small Business and Entrepreneurship. A co-operative education option is available qualified students.

The Master of Business Administration program encompasses common body of business and economic knowledge and advan study in Accounting, Economics, Finance, Management, Management Science and Marketing. In addition to the generall program, students may pursue a concentration in any of eight areas. See Section 5 of this Academic Calendar for details. Ar Executive Master of Business Administration program is available qualified middle and senior managers.

Faculty of Commerce - Undergraduate Programs

Bachelor of Commerce

The following requirements apply to all entering Commerce students.

 a. The Bachelor of Commerce program consists of twenty (20.0) credits 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 Dea Courses beginning with zero (0) are designated preparatory and not be credited toward any degree, diploma or certificate.

Nova Scotia Community College (NSCC) students who have pieted the Business Information and Technology (BIT) cate and selected diploma programs and have been granted sion to the Faculty of Commerce may be granted advanced gredits. Contact the Office of the Dean of Commerce for

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

In conformity with academic regulation 7c(i) students must eve a minimum cumulative quality point average of 1.70 in order for graduation. Honors and co-operative education ents must attain a minimum cumulative quality point average of

During the regular academic year a full time student will by take the equivalent of five (5.0) credits. (See academic dation 1.)

For the degree of Bachelor of Commerce, each student is maired to complete successfully the courses listed in regulation 6 in Year 1 and Year 2. Students are expected to select a at the end of Year 2. Requirements for Year 3 and Year 4 and upon the major selected. Courses for each major are given indicated in a sullation 7. Credit value of each course is indicated in inthesis after the course number. They are arranged by year as mide to students in preparing their individual programs of study.

EGL 201.1(.2) and one of 203.1(.2) and 204.1(.2) are emired of all students.

Nova Scotia Grade 12 Academic Mathematics (or equivalent) prerequisite for MSC 205.1(.2) and 206.1(.2). In the event that Ints did not have Nova Scotia Grade 12 Academic ematics on admission, they are required to take MAT 050.1(.2) 051.1(.2) (or equivalent) prior to taking MSC 205.1(.2) and 5.1(.2). These are both preparatory courses and will not be med toward any degree, diploma or certificate.

All undergraduate Commerce students are required to te successfully at least three (3.0) elective credits offered iside of the Faculty of Commerce. Non-Commerce courses taken eu of Commerce courses cannot be counted as non-Commerce

Each major has at least one and one-half (1.5) credits of free wes. A free elective may be chosen from any Faculty.

Requirements for Year 1 and Year 2

dents required to complete additional courses due to pround deficiencies should consult the Undergraduate Program mager.

- 205.1(.2) Introduction to Quantitative Methods for Commerce
- C 206.1(.2) Introduction to Quantitative Methods for Commerce
- **ST 281.1(.2)** Introduction to Business Management
- C 225.1(.2) Introduction to Computers
 C 201.1(.2) Principles of Economics: Micro
- 202.1(.2) Principles of Economics: Macro
- **EL 201.1(.2)** English Composition
- \$1. 203.1 (.2) An Introduction to Literature I or
- **EL 204.1(.2)** An Introduction to Literature II
- me (1.0) non-Commerce elective credit

- 207.1(.2) Introductory Statistics for Commerce
- 241.1(.2) Introductory Accounting I 242.1(.2) Introductory Accounting II
- KT 270.1(.2) Introduction to Marketing

MGT 383.1(.2) Organizational Behavior I

MGT 384.1(.2) Organizational Behavior II

CML 201.1(.2) Legal Aspects of Business - Part I COM 293.1(.2) Managerial Communications

One (1.0) Economics elective credit- see note below

Notes: (i) It is recommended that students wishing to major in Economics take ECO 300.1(.2) and ECO 301.1(.2). (ii) Students who are interested in a Human Resource Management major are advised to take ECO 340.1(.2). (iii) Other Commerce students may take one or two of these courses or another credit (1.0) in Economics for which they have the necessary prerequisites.

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.

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

Accounting Major

Year 3

ACC 323.1(.2) Information Systems I

ACC 333.1(.2) Cost Management: Measurement Systems

ACC 334.1(.2) Cost Management: Systems Evaluation

ACC 341.1(.2) Intermediate Financial Accounting I

ACC 342.1(.2) Intermediate Financial Accounting II

ACC 345.1(.2) Financial Accounting Theory

FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II

One (1.0) credit free elective

Year 4

ACC 455.1(.2) Financial Accounting Seminar

ACC 470.1(.2) Management Accounting Seminar

One (1.0) Accounting elective - see note (i) below

MGT 489.1(.2) Strategic Management

Two (2.0) credits non-Commerce elective One (1.0) credit free elective - see note (ii) below

Notes:

MSC 324.1(.2), MSC 326.1(.2), or MSC 435.1(.2) as well as ACC 357.1(.20 or any 400 level course in Accounting except ACC 455.1(.2) and ACC 470.1(.2) may be used to satisfy this requirement.

(ii) CML 202.1(.2) is normally required by professional accounting associations.

Economics Major

ACC 332.1(.2) Planning and Control

ECO 300.1(.2) Intermediate Microeconomic Theory I - see note below

ECO 301.1(.2) Intermediate Macroeconomic Theory I - see note

ECO 400.1(.2) Advanced Microeconomic Theory

ECO 401.1(.2) Advanced Macroeconomic Theory

FIN 360/1(.2) Business Finance I

FIN 361.1(.2) Business Finance II

One (1.0) credit humanities or language elective [Classics, History,

Philosophy (except PHI 200.0), Religious Studies, English, or

Modem Languages]

One (1.0) credit free elective

Year 4

One-half (0.5) credit Economics elective at 400 level
One (1.0) credit Economics elective at 300 level or above
MGT 489.1(.2) Strategic Management
One (1.0) credit social science (excluding Economics) elective
[Anthropology, Geography, Political Science, Sociology, or
Psychology]
Two (2.0) credits free elective

Note: It is recommended that students planning to major in Economics take ECO 300.1(.2) and 301.1(.2) in Year 2 and defer one (1.0) credit of Economics electives to Year 3.

c. Computing and Information Systems Major

Year 3

ACC 323.1(.2) Information System I ACC 332.1(.2) Planning and Control FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II

MSC 320.1(.2) Business Applications Programming MSC 324.1(.2) The Use of COBOL in Data Processing

MSC 328.1(.2) Database Programming MSC 328.1(.2) Computer Configurations One (1.0) credit non-commerce elective

Year 4

MGT 489.1(.2) Strategic Management
MSC 425.1(.2) System Analysis and Design
MSC 435.1(.2) Decision Support Systems
MSC 436.1(.2) Data Communications
One (1.0) credit non-commerce elective
Two (2.0) credits free elective

d. Finance Major

Year 3

ACC 332.1(.2) Planning and Control
FIN 360.1(.2) Business Finance I
FIN 361.1(.2) Business Finance II
One-half (0.5) credit Commerce elective at 300 level or above

One (1.0) credit non-commerce elective

Two (2.0) credits free elective

Year 4

FIN 463.1(.2) Financial Management

FIN 466.1(.2) Investments

FIN 467.1(.2) Portfolio Management MGT 489.1(.2) Strategic Management

One (1.0) credit Finance elective at 400 level except FIN 491.1(.2) [ACC 445.1(.2) and ECO 409.1(.2) may be used to satisfy this requirement.]

One (1.0) credit non-commerce elective

One (1.0) credit free elective

e. Management Major

Year 3

ACC 332.1(.2) Planning and Control FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II MSC 317.1(.2) Operations Management One-half (0.5) credit Accounting elective One (1.0) credit Marketing elective One-half (0.5) credit Commerce elective One (1.0) credit free elective

Voar d

MGT 385.1(.2) Human Resource Management

MGT 386.1(.2) Industrial Relations

MGT 481.1(.2) Organization Theory: Structure, Process, Analysis

and Design
MGT 489.1(.2) Strategic Management
One-half (0.5) credit Finance elective
Two (2.0) credits non-Commerce elective
One-half (0.5) credit free elective

f. Marketing Major

Year 3

ACC 332.1(.2) Planning and Control FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II MKT 376.1(.2) Consumer Behavior MKT 378.1(.2) Marketing Research MKT 379.1(.2) Marketing Management One (1.0) credit non-commerce elective One (1.0) credit free elective

Year 4

MGT 489.1(.2) Strategic Management MKT 479.1(.2) Marketing Policy One (1.0) credit Marketing elective One (1.0) credit non-commerce elective Two (2.0) credits free elective

g. Human Resource Management and Industrial Relations Major

Year :

ACC 332.1(.2) Planning and Control
ECO 340.1(.2) Human Resource Economics
FIN 360.1(.2) Business Finance I
FIN 361.1(.2) Business Finance II
MGT 385.1(.2) Human Resource Management
MGT 386.1(.2) Industrial Relations
One (1.0) credit free elective
One (1.0) credit free elective - see note below

Year 4

MGT 483.1(.2) Interpersonal Behavior I MGT 485.1(.2) Wage and Salary Administration

MGT 486.1(.2) Personnel Staffing, Training and Development

MGT 489.1(.2) Strategic Management Two (2.0) credits non-commerce elective

One (1.0) credit free elective

Notes:

(i) If ECO 340.1(.2) was used to satisfy the required Economic electives in Year 2, the number of free electives credits is incread to one and one-half (1.5).

(ii) Students who successfully complete the above requirement for the Human Resource Management major will automatically be granted the Certificate in Human Resource Management.

h. General Business Studies Major

Year 3

ACC 332.1(.2) Planning and Control FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II

One and one-half (1.5) credits Commerce elective at 300 level of

One (1.0) credit non-commerce elective

One (1.0) credit free elective

Year 4

MGT 489.1(.2) Strategic Management
One and one-half (1.5) credits Commerce electives at 300 level 0 above
One (1.0) credit non-commerce elective

Tive (2.0) credit for elective

Two (2.0) credits free elective

I. Computing Science and Business Administration Major

Effective 1 September 2000, this program option has been drop from the Faculty of Commerce and no further admissions will be accepted. Students interested in this subject are advised to contitue programs offered by the Department of Mathematics and Computing Science, Faculty of Science.

J. Small Business and Entrepreneurship Major

Planning and Control

Business Finance I

Business Finance II

1(2) Structuring the Start-Up

1(2) Entrepreneurship: Theory and Concepts

credit non-Commerce elective one-half (1.5) credits free electives

380.1(.2) Family Business

487.1(.2) New Venture Opportunities

489.1(.2) Strategic Management

495.1(.2) Small Business Performance Improvement

0) credit non-Commerce elective

(2.0) credits free electives

Global Business Management Major

be the details on this major are described in the "Global mess Management" entry in Section 5 of this Calendar. This is administered by the Department of Management.

332.1(.2) Planning and Control

357.1(.2) International Accounting

360.1(.2) Business Finance I

361.1(.2) Business Finance II

375.1(.2) International Marketing

(1.0) Modem Language (except English) elective [Chinese,

ch, German, Italian, Japanese, or Spanish] - see note (i) below

(1.0) credit Geographic elective - see note (ii) below

half (0.5) credit free elective

476.1(.2) International Finance

ET 488.1(.2) International Business

GT 489.1(.2) Strategic Management

(1.0) Modem Language (except English) elective [Chinese, ench, German, Italian, Japanese, or Spanish) - see note (iii)

(1.0) credit Geographic elective - see note (iv) below

e (1.0) credit cognate elective - see note (v) below

half (0.5) credit free elective

If the non-Commerce elective in Year 1 was a Modem guage, then this requirement can be replaced with one (1.0)

One (1.0) credit elective must be selected from one and only e of the following regions: Africa, Americas, Asia, or Europe. proved courses for each region are listed in the entry "Global iness Management" in Section 5 of this Calendar.

Credit must be in the same language as Year 3 language

One (1.0) credit elective must be selected from one, and only e, of the areas (Africa, Americas, Asia, or Europe) different from area of Year 3 Geographic credit.

One (1.0) credit elective must be selected from the approved of Geographic credits or cognate credits found in the "Global siness Management" entry in Section 5 of this Calendar. If ECO 5.1(.2), ECO 310.1(.2), ECO 312.1(.2), ECO 315.1(.2), ECO

1(.2), ECO 406.1(.2), ECO 410.1(.2), ECO 412.1(.2), ECO

1.1(.2), ECO 413.1(.2), or ECO 414.1(.2) were used to satisfy the nomics elective(s) in Year 2, the number of free electives at the lo level or above is increased by one-half (0.5) or one (1.0) as

In cases where a student is fluent in two languages, other rses relevant to the major may be substituted for the language its, with the approval of the Program Coordinator.

Notwithstanding the course substitutions possible in (i), (v), id (vi) above, all students must complete at least three (3.0) dits non-Commerce electives.

Bachelor of Commerce Degree (Honors - Economics)

Admission Requirements

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

b. Students must make application for admission to the Honors 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 Commerce.

2. Requirements for Continuance and Graduation

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

The specific course requirements of the program are:

Year 1

MSC 205.1(.2) Introduction to Quantitative Methods for Commerce

*MSC 206.1(.2) Introduction to Quantitative Methods for Commerce

MGT 281.1(.2) Introduction to Business Management

MSC 225.1(.2) Introduction to Computers

*ECO 201.1(.2) Principles of Economics: Micro

*ECO 202.1(.2) Principles of Economics: Macro

EGL 201.1(.2) English Composition

EGL 203.1(.2) An Introduction to Literature I or

EGL 204.1(.2) An Introduction to Literature II

One (1.0) credit humanities elective [Classics, History, Philosophy (except PHI 200.0), Religious Studies, English, or Modem Languages]

Year 2

*MSC 207.1(.2) Introductory Statistics for Commerce

ACC 241.1(.2) Introductory Accounting I

ACC 242.1(.2) Introductory Accounting II

MKT 270.1(.2) Introduction to Marketing MGT 383.1(.2) Organizational Behavior I

MGT 384.1(.2) Organizational Behavior II

CML 201.1(.2) Legal Aspects of Business - Part I

COM 293.1(.2) Managenal Communications

*ECO 300.1(.2) Intermediate Microeconomic Theory I

*ECO 301.1(.2) Intermediate Macroeconomic Theory I

Year 3

ACC 332.1(.2) Planning and Control

FIN 360.1(.2) Business Finance I

FIN 361.1(.2) Business Finance II

*ECO 302.1(.2) Mathematical Economics

*ECO 303.1(.2) Intermediate Economic Statistics

*ECO 400.1(.2) Advanced Microeconomic Theory

*ECO 401.1(.2) Advanced Macroeconomic Theory

*One-half (0.5) credit Economics elective

One (1.0) credit social science (excluding Economics) elective [Anthropology, Geography, Political Science, Sociology, or Psychology]

MGT 489.1(.2) Strategic Management

*ECO 403.1(.2) Econometrics

*ECO 404.1(.2) Special Topics in Microeconomics

*ECO 405.1(.2) Special Topics in Macroeconomics *ECO 498.1(.2) Research Seminar in Economics

*ECO 499.1(.2) Honors Project in Economics or another one half (0.5) credit advanced economics course approved by the chairperson

*Two and one-half (2.5) credits Economics electives

- For courses marked with an asterisk (*), no grade below a C is acceptable and at least eight (8.0) credits must have a grade of B or higher.
- With the approval of the Chairperson of the Economics

Department, a student may be permitted to substitute up to two (2.0) credits 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 one and a half (1.5) credits from the Department of Mathematics and Computing Science for ECO 302.1(.2), 303.1(.2), and 403.1(.2).

Minors for Students in the Faculty of Commerce or Offered by the Faculty for Non-Commerce Students

Students in the Faculty of Commerce 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 fulfil the requirements of the degree in which they are registered, including officially declaring and fulfilling the requirements for a major or honors (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 Business is available for students pursuing a Bachelor of Arts or Bachelor of Science degree. This minor consists of the equivalent of five (5.0) credits, namely:

ACC 241.1(.2) Introductory Accounting - Part I

ACC 242.1(.2) Introductory Accounting - Part II

CML 201.1(.2) Legal Aspects of Business - Part I

COM 293.1(.2) Managerial Communications

MGT 281.1(.2) Introduction to Business Management

MGT 383.1(.2) Organizational Behavior I

MKT 270.1(.2) Introduction to Marketing

MSC 225.1(.2) Introduction to Computers

One (1.0) credit elective credit in Commerce subjects

Note: 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 fulfil 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)

Bachelor of Science degree with a Double Major/Honors in Commerce and Geology

The requirements for this program are found in this section in the Faculty of Science offerings.

Co-operative Education Programs

The Faculty of Commerce offers co-operative education options to the Bachelor of Commerce program. Co-operative 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 MacEachem serves as Liaison Officer of the Co-operative Education Programs.

A "Co-operative Education" notation is entered on the parchments and academic transcripts of undergraduate students who successfully complete Co-operative Education requirements in addition to their regular degree requirements.

- Admission Requirements for Undergraduate Co-operative Education Programs
- a. Enrolment in the co-operative education option is limited and admission is on a competitive basis. The requirements listed beliare the normal minimums. Satisfying these requirements does no quarantee admission.
- b. Students are considered for admission to the co-operative education option in the Faculty of Commerce after the completion seven and one half (7.5) credits. Normally, this will occur at the edit of the first semester of the second year. Final decision on admission to the program will be at the end of the second semester.
- c. Candidates should make application for admission to the cooperative education program on a special form obtainable from the Commerce Co-operative Education Program Manager. Students will be admitted to the co-operative education program on the base of their formal academic achievement and interviews with the appropriate departmental Co-operative Education Advisor and/ofthe Commerce Co-operative Program Manager.
- d. The normal prerequisite for admission to the co-operative education program in a regular Bachelor of Commerce program minimum cumulative quality point average of 3.00 and a minimu quality point average of 3.00 in the course(s) of the student's declared major subject(s). Special requirements may apply for some majors.
- e. Candidates will be admitted to a co-operative education program on the basis of their interest, aptitude, and assessed at to combine successfully the academic requirements of a major program together with the special work-term requirements of the program.
- Requirements for Continuance in and Graduation from Co-operative Education Program
- a. Students must complete all of the regular requirements for Bachelor of Commerce (see regulations 1 through 7 in the Bach of Commerce section of the Calendar). Since individual program may have specific additional requirements for co-operative education students, students should consult the appropriate departmental section of this Calendar for a description of these regulations. Students are advised that for some majors, pursuing co-operative education option may complicate course scheduling and therefore delay degree completion. Departments will endeavour to plan and publish a three year listing of course offerings, by semester. It is the student's responsibility to scheduling the courses to satisfy major requirements.
- b. In addition to the above requirements, students must official register for and complete three work experiences as specified by department of their major program (see regulations below and departmental co-operative education regulations).
- c. To continue in and graduate from the co-operative education program, students must earn a minimum cumulative quality point average of 3.00 with a minimum quality point average of 3.00 in courses in their major subject(s).
- Policies and Regulations Governing Co-operative 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 co-operative education students, but require the approval of the Commerce Co-operative Education Program Manager.
- The satisfactory fulfilment of co-operative education work terms require:
- (i) the completion of three terms of work experience in academically related, paid employment situations of 13 to 16 well duration. Under certain circumstances, and with the approval of appropriate department, students may be permitted to satisfy the

terms requirements in an unpaid position. Self-employment will

a satisfactory employer evaluation for each co-operative atton work term (self-employed students will be evaluated by dividual selected by the department);

the satisfactory completion of a written report submitted within the end of each work term detailing the student's work seence in accordance with departmental standards and ediations.

ment of any other requirements specified by the ment, such as the participation in seminars or workshops.

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

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

Sudents may be required to withdraw from a co-operative ation program if:

they are dismissed from, quit, or fail to accept an appropriate approved co-operative work term position;

they fail to submit or successfully complete a work term report; they do not maintain the required quality point average assary for continuance in the co-operative education program;

n the judgement of their department, they are no longer suited particular requirements of the co-operative education

Students who voluntarily withdraw from or who are required to the draw from the co-operative education program may remain and continue with the major or honors degree program beed by their department.

co-operative education students will be expected to attend any seminars or colloquia developed by the Faculty of merce, or the Co-operative Education departments, which deal imployment orientation and the application of formal academic to work experiences.

Academic study during work terms is discouraged.

Istration in any courses during a work term requires the
royal of the Dean of Commerce. No more than one (1.0) credit
be taken during a work term. Up to one (1.0) credit within the
Int's major subject may be taken on a Letter of Permission at
Inter institution. This waiver of normal University policy is
Inted only for study during work terms and only if the courses
not be taken at Saint Mary's University due to program
Intercing.

3. Registration and Fees for Co-operative 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 100.1(.2) Work Term 2 = COP 200.1(.2) Work Term 3 = COP 300.1(.2)

- Students pay for their academic courses and work terms as they take them.
- c. Students pay a fee equivalent to the tuition for one (1.0) credit plus differential fees, if applicable, for each work term they undertake.

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 fulfil 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 fulfilment 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 Faculty of Commerce's programs at the graduate level is found later in this *Calendar*.

aculty of Science

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

meral Information

dents electing to pursue a program leading to the Bachelor of pence degree should consider which of three programs best suits aspirations.

mors

be honors program demands a minimum grade of C in all courses lowed in the honors subject. Particular requirements for the mors in Environmental Studies are found in this Academic leader, Section 5, "Environmental Studies". These honors leader, Section 5, "Environmental Studies". These honors leader work or who wish to obtain professional status in the area the honors subject. Students of above-average ability are urged to lead the Chair of the Department in which they wish to follow an

honors program before the end of Year 3 for application details. Formal application for admission to an honors program must be made on a form available in the Registrar's Office.

Major

The regular 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 honors programs, and students are encouraged to supplement their science studies with courses in the humanities and social sciences.

Faculty of Science - Undergraduate Programs

Bachelor of Science - General (i.e., With a Concentration)

Subject to the regulations set forth in this Calendar, students
must complete fifteen (15.0) credits. 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.

- Students will normally take five (5.0) credits during the regular academic year.
- 3. For the degree of Bachelor of Science, students must successfully complete:
- a. one (1.0) credit in English, normally EGL 201.1(.2) and either 203.1(.2) or 204.1(.2);
- one (1.0) credit in Mathematics: either MAT 210.1(.2) and one of 211.1(.2) or 212.1(.2) or 316.1(.2); or CSC 226.1(.2)/227.1(.2);
- two (2.0) credits in Arts subjects and/or Economics [except ECO 205.1(.2), ECO 206.1(.2), ECO 207.1(.2)] in addition to requirement (a) above;
- d. not less than five (5.0) or more than seven (7.0) science credits in their area of concentration (Biology, Chemistry, Computing Science, Geology, Mathematics, Physics or Psychology);
- four (4.0) science credits not in the subject of concentration and in addition to the required Mathematics or Computing Science courses (see note below); and
- sufficient electives to complete the fifteen (15.0) credits required for a general Bachelor of Science.

Note: As of 1 September 1997, students beginning their studies in the Faculty of Science or returning students officially declaring their major as of the above date, are NOT permitted to use the following courses as "other sciences" in fulfilling the requirements of their academic program:

AST 217.1(.2) Life in the Universe

BIO 203.0 Biology and the Human Environment

CHE 220.1(.2) Chemistry and Industry

CHE 221.1(.2) Chemistry of Life

GEO 202.1(.2) Planet Earth: Atlantic Canada Perspective

GEO 203.1(.2) Atlantic Canada: The Last Four Billion Years

MAT 190.1(.2) Pre-Calculus Review

PSY 200.1(.2) Introduction to Psychology

Bachelor of Science - Major

4. Subject to the regulations set forth in this Calendar, students must complete twenty (20.0) credits. 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.

- Students will normally take five (5.0) credits during the regular academic year.
- 6. To earn a degree of Bachelor of Science with a major, students

must successfully complete:

- a. one (1.0) credit in English, normally EGL 201.1(.2) and e 203.1(.2) or 204.1(.2);
- b. one (1.0) credit in Mathematics or Computing Science: et MAT 210.1(.2) and one of 211.1(.2) or 212.1(.2) or 316.1(.2); CSC 226.1(.2)/227.1(.2). For some science majors, CSC 226.1(.2)/227.1(.2) are not acceptable (see Section 5 in this Calendar);
- two (2.0) credits in Arts subjects and/or Economics [exce ECO 205.1(.2), ECO 206.1(.2), ECO 207.1(.2)] in addition to E 201.1(.2)/202.1(.2);
- d. not less than seven (7.0) or more than nine (9.0) credits i major subject. The Astrophysics major requires seven (7.0) or in Physics and three (3.0) credits in Astronomy, namely, AST plus two (2.0) credits at the 300 level or above (or equivalent). Computing Science major requires nine (9.0) credits with a CS MAT course designation, in addition to the Faculty of Science requirement 6(b);
- e. four (4.0) science credits -- excluding the following cours AST 217.1(.2); BIO 203.0; CHE 220.1(.2) and 221.1(.2); GEO 202.1(.2) and 203.1(.2); MAT 190.1(.2) and PSY 200.1(.2) -- a addition to the required Mathematics or Computing Science of (1.0);
- sufficient elective credits to complete the twenty (20.0) or required for a Bachelor of Science with a major; and
- a second full credit (1.0) in Mathematics and/or Computir Science is required for the major in chemistry.

Double Major

7. With the approval of the departments involved, students pursue a double major program in any two science subjects (e Astrophysics). In addition to satisfying the requirements for the Bachelor of Science major (see above), students must completellowing:

Note:- Students should note that at least 50% of all courses for academic program must be taken at Saint Mary's University.

- a. at least six (6.0) credits in each major subject;
- two (2.0) science credits not in the major subjects and in addition to the required Mathematics or Computing Science or (1.0); and
- sufficient electives to complete the twenty (20.0) credits required for a Bachelor of Science with a double major.

Note: In conformity with academic regulation 7c(i) students m achieve a minimum cumulative quality point average of 1.70 in to qualify for graduation with a Bachelor of Science degree – v concentration, with a major, or with a double major.

- 8. Students programs must be approved by the department 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 Dean of Science who may approve a special program for the student in consultation with the department(s) concerned.
- Students must obtain a cumulative quality point average least 2.00 in the major subject(s).

Degree of Bachelor of Science - Major and Minor

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

- **East seven (7.0) credits in the major subject; Least five (5.0)** credits in the minor subject;
- (2.0) science credits not in the major or minor subjects, in to the required Mathematics or Computing Science credit
- marking to complete the twenty (20.0) credits for a Bachelor of Science with a major-minor;
- addition, students must obtain a grade of not less than C in course in both the major and the minor subjects. A student a grade of less than C in any such course will be permitted manue in the major-minor program only with the approval of the of Science, acting in consultation with the departments
- Students should note that at least 50% of all courses for any memic program must be taken at Saint Mary's University.

egree of Bachelor of Science onors and Double Honors

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

- Students should note that at least 50% of all courses for any memic program must be taken at Saint Mary's University.

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

ten (10.0) to twelve (12.0) credits in the honors subject, or in honors [see Science Regulation 12(d)]. The exceptions are: bohysics at least nine and one half (9.5) credits in Physics and and one half (3.5) credits in Astronomy, namely, AST 202.0 two and a half (2.5) credits in Astronomy at the 300 level or or equivalent); and Computing Science, in which a total of sen (13.0) CSC and MAT credits are required, in addition to the sulty of Science requirement 6(b);

four (4.0) science credits not in the honors subject [one (1.0) in the honors, three (3.0) in Astrophysics and Computing Science] totion to the required Mathematics and Computing Science (1.0);

pufficient electives to complete the twenty (20.0) credits wired for a Bachelor of Science with honors.

For a double honors program, students must complete eight credits in the subject in which they are completing their thesis. sincludes the thesis and seminar course where relevant.) lents must complete seven (7.0) credits in their second honors ject, one (1.0) credit in another science, two (2.0) credits in Arts, as the required credits for English [EGL 201.1(.2) and either 1(.2) or 204.1(.2)], Mathematics or Computing Science [MAT (.2) and one of 211.1(.2) or 212.1(.2) or 316.1(.2); or CSC (.2)/227.1(.2) as stipulated in the departmental regulations] for himum of twenty (20.0) credits. Entry into this double honors ram requires approval by the Chairs of the two departments.

Students' academic programs must be approved by the involved.

For a Bachelor of Science degree with honors, students must in a cumulative quality point average of at least 3.00.

melor of Science (Major in Computing Science and iness Administration)

details on this program, please consult the "Computing Science

and Business Administration" entry under Mathematics and Computing Science in Section 5 of this Calendar.

Bachelor of Science (Major in Geography)

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

Bachelor of Science (Geology/Commerce)

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

Combined Co-operative Education Program in Commerce/Geology

Students enrolled in the combined commerce/geology major/honors 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/honors programs.

Bachelor of Science (Major/Honors in Geology/Geography) For details on this program, please consult the "Geology" entry in Section 5 of this Calendar.

Bachelor of Science (Major/Honors in Environmental Studies) For details on this program, please consult the "Environmental Studies" entry in Section 5 of this Calendar.

Dual Bachelor Degree Programs

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 fulfil 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.

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 fulfil the requirements of the degree in which they are registered, including officially declaring and fulfilling the requirements for a major or honors (or in the case of Science, a

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 Faculty of Commerce is available for students pursuing a Bachelor of Arts or Bachelor of Science degree. This consists of the equivalent of five (5.0) credits, namely:

ACC 241.1(.2) Introductory Accounting - Part I

ACC 242.1(.2) Introductory Accounting - Part II

CML 201.1(.2) Legal Aspects of Business - Part I

COM 293.1(.2) Managerial Communications

MGT 281.1(.2) Introduction to Business Management

MGT 383.1(.2) Organizational Behavior I

MKT 270.1(.2) Introduction to Marketing

MSC 225.1(.2) Introduction to Computers
One (1.0) elective credit in Commerce subjects

The regular "Declaration of Major/Minor/Concentration" form is to be used to declare a minor. Students must fulfil 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 fulfilment of a second undergraduate degree must have been taken at Saint Mary's after the confeming 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.

Co-operative Education Programs (Major and Honors)

Mary Ellen MacEachem, Liaison Officer, Co-operative Education Programs

The Faculty of Science offers Co-operative Education programs in Biology, Chemistry, Environmental Studies, Geology, and Computing Science. Co-operative 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 "Co-operative Education" notation is entered on the parchments and academic transcripts of undergraduate students who successfully complete Co-operative Education requirements in addition to their regular degree requirements.

Admission Requirements for Undergraduate Co-operative 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 Co-operative 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 Cooperative Education Programs, and the appropriate departmental Co-operative Education Advisor.
- c. The normal prerequisite for admission to the Co-operative Education program in a regular Bachelor of Science program is a minimum cumulative quality point average of 2.50 and a minimum quality point average of 3.00 in the course(s) of the student's declared major subject(s).
- d. Students will be admitted to the Co-operative Education program on the basis of their interest, aptitude and assessed ability to combine successfully the academic requirements of a major or honors science program together with the special work term requirements of the Co-operative Education program they wish to enter.

Requirements for Continuance in and Graduation from the Cooperative Education Program

- a. Students must complete all of the regular requirements for a Bachelor of Science degree (see regulations 1 through 13 above) Since individual programs may have specific additional requirement for Co-operative 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 four work terms as specific by the department of their major program (see regulations below and departmental Co-operative Education regulations). Official registration is on the regular registration forms available from the Registrar's Office.
- c. To continue in and graduate from the Co-operative Education program, students must earn a minimum cumulative quality point average of 2.50 with a minimum quality point average of 3.00 in all courses in their major subject(s).

Policies and Regulations Governing Co-operative 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 Co-operative Education students, but require the approval of the Liaison Officest Co-operative Education Programs, in consultation with the appropriate departmental Co-operative Education Advisor.
- b. The satisfactory fulfilment of Co-operative Education work terms require:
- (i) the completion of four terms of work experience in academically related, paid employment situations of 13 to 16 weed 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 Co-operative Education work term;
- (iii) the satisfactory completion of a written report submitted with 30 days after the end of each work term detailing the student's wol experience in accordance with departmental standards and expectations.
- 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 "Co-operative Education" notation will be printed on their parchments.
- Students may be required to withdraw from the Co-operative Education program if:
- they are dismissed from, quit, or fail to accept an appropriate and approved Co-operative work term position;
- ii) they fail to submit or successfully complete a work term repo
- (iii) they do not maintain the required quality point average necessary for continuance in the Co-operative Education program (iv) in the judgement of their department, they are no longer suit for the particular requirements of the Co-operative Education program.
- f. Students who voluntarily withdraw from or who are required withdraw from the Co-operative Education program may remain enrolled in and continue with the major or honors degree program offered by their department.
- g. Co-operative Education students will be expected to attend a special seminars or colloquia developed by the Co-operative 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,

Dean of Science or appropriate departmental Co-operative Advisor. If approval is granted, no more than one (1.0) may be taken during a work term.

for Co-operative Education

Sudents are required to register for all work terms at the leader's Office, according to normal registration procedures, adding all stipulated deadlines. Work terms will be officially unated on students' transcripts as:

Term 1 = COP 100.1(.2) Term 2 = COP 200.1(.2) Term 3 = COP 300.1(.2)

Term 4 = COP 400.1(.2)

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

Students pay a fee equivalent to the tuition for one (1.0) credit

plus differential fees, if applicable, for each work term they

A sample Co-operative Education study program for Science majors is presented below:

Year	Fall	Winter	Summer
1	AT1	AT2	
2	AT3	AT4	WT1
3	WT2	AT5	WT3
4	AT6	WT4	
5	AT7	AT8	

In general, the Co-operative 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 Co-operative Education program to the non Co-operative Education program.

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

Division of Engineering

D. Swingler, Director

neral Information

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

Trance Requirements

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

English 12 academic

he-calculus Mathematics 12 academic

mysics 12 academic

hemistry 12 academic

One other Grade 12 academic or an approved open course. For the information, please consult "Admissions" in Section 2 of this lander.

Definitions:

rements for the Diploma in Engineering

Cradit:

Cleuit.	Deminuons.
(0.5)	Math I
(0.5)	Math II
(1.0)	University General Chemistry
(0.5)	University Physics I
(0.5)	University Physics II
(0.5)	Humanities/Social Sciences I
(0.5)	Humanities/Social Sciences II
(0.5)	Humanities/Social Sciences II
(0.5)	Graphics (Design I)
(0.5)	Statics (Mechanics I)
(0.5)	Computer Methods for Engineers
(0.5)	Engineering Economics
	(0.5) (1.0) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5)

ar Two:

elents must declare their chosen discipline at the end of year one.

Lecond year curriculum is specialized for each discipline. The
len choices are listed below, followed by a complete list of
lenses. Each course is followed by the numbers, one to seven, for
lenses that requires it.

Environmental Engineering Biosystems Engineering Chemical Engineering (Note that Saint Mary's does not provide all courses agguired)

- 4. Electrical Engineering
- 5. Civil Engineering
- 4. Industrial, Metallurgical & Mining Engineering
- Mechanical Engineering

Courses:	Defir	nitions:	Disciplines:
Mathematics 301	(0.5)	(Linear Algebra)	All
Mathematics 303	(0.5)	(Math III)	All
Mathematics 311	(0.5)	(Math IV)	3, 4, 5, & 6
Hum./Soc.Sci. III	(0.5)	Free Elective	1, 2, 3, 6, 7,
Hum./Soc.Sci. IV	(0.5)	Free Elective	7 only
Biology 200	(1.0)	Principles of Biology	1 & 2
Geology 200	(1.0)	Intro. To Earth Science	1 & 5
Chemistry 344	(0.5)	Intro. To Organic Chem.	1, 2, & 3
Computing Science	(0.5)	Data Structure	
Engineering 301	(0.5)	Mechanics II	2, 5, 6, & 7
Engineering 303	(0.5)	Fluids	1,2,3,5,6,& 7
Engineering 304	(0.5)	Strength of Materials	2, 5, 6, & 7
Engineering 305	(0.5)	Digital Circuits	4 only
Engineering 306	(0.5)	Thermodynamics	3, 4, 5, 6, & 7
Engineering 307	(0.5)	Design II	4 & 7
Engineering 308	(0.5)	Electric Circuits I	All
Engineering 309	(0.5)	Probability and Statistics	All
Engineering 310	(0.5)	Technical Communication	ns 1, 2, 4, 5, & 6
Engineering 311	(0.5)	Circuit Analysis II	4 only
CSC 301	(0.5)	Data Structure s and	
		Numerical Methods	4 only
Motoci			

Notes:

(a) Chemical Engineering requires 3 more half (0.5) courses, i.e., one and one half credits (1.5), (Chemical Process Industries, Fundamentals of Chemical Engineering, and Fundamentals of Environmental Engineering) which are offered only at DalTech 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 Calendar.

(b) To qualify for the Diploma in Engineering, a student is required to achieve a minimum quality point average of 1.70.

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

This program entails an extra year of five (5.0) credits as listed below:

one (1.0) Mathematics elective credit at the 400-level one (1.0) Chemistry elective credit at 300 level or above

one (1.0) Physics or Biology elective credit at 300 level or above two (2.0) Humanities or Social Sciences elective credits at 200 level

48

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 twenty (20.0) credits consistent with the requirements for the Bachelor of Science degree. Students who anticipate taking this option are advised to substitute CSC226 and 227 for EGN 204, and consult with the Department of Mathematics and Computing Science before registering for any 300 math course or EGN 309.

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 DalTech

With a Saint Mary's University Diploma of Engineering and without additional examination students may enter DalTech, the technical college of Dalhousie University, and obtain the degree of Bachelor of Engineering on successful completion of the DalTech 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 DalTech 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. DalTech will treat students from the Associated University programs in the same manner as students who entered the program as freshmen at Dalhousie University. Academic met will be the only deciding factor on admission to disciplines.

Objectives

Saint Mary's University offers Engineering programs accredited to the Associations 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

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 [FOR 300.1(.2)].

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

Admission

Entry to this Diploma program is by permission of the Coordinator. To be admitted, students must be enroled in a Saint Mary's University degree program in the Faculty of Arts, Commerce, or Science; have completed five (5.0) credits with a minimum cumulative quality point average of 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.

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.

Police officers and mature students with previous work-related experience 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 enroled concurrently in a degree program.

Continuance and Graduation

In order to be eligible to continue in this program and to qualify graduation, ALL students must have a minimum cumulative que point average of 3.00.

Two-Year Diploma in Forensic Sciences (10.0 credits) Year 1 (5.0 credits)

- FOR 200.1(.2) Basic Sciences for Forensics and FOR 201.1(.2) Basic Sciences for Forensics II
- 2. BIO 200.0 Principles of Biology
- 3. CHE 202.0 General Chemistry for Life Sciences
- 6. One (1.0) credit from the following:
 PHY 230.0 Physics for Life Sciences
 BIO 322.1(.2) General Physiology I
 BIO 323.1(.2) General Physiology II
 - BIO 327.1(.2) Anatomy and Functional Morphology of Vertebrates
- 5. One (1.0) credit from the following:

MAT 210.1(.2) Introductory Calculus and either MAT 211.1(.2) Calculus or MAT 316.1(.2) Introduction to Mathematical Statis BIO 308.1(.2) Biostatistics

EGN 310.1(.2) Technical Communications

or EGL 201.1(.2) English Composition

POL 330.0 Introduction to Public Administration

PSY 230.1(.2) Memory

PSY 316.1(.2) Social Cognition and Emotion

CRM 303.1(.2) Crime and Society, (entry to this course may be restricted)

GPY 206.1(.2) Computers and G.IS. in Geography

Year 2 (5.0 credits; diploma students may qualify for up to credits based on prior training)

1. FOR 300.1(.2) Application of Forensic Techniques

307.1(2) Genetics and BIO 419.1(.2) Molecular Biology

east two and a half (2.5) but not more than three (3.0) at least one (1.0) credit above 200 level from the

1 (.2) Forensic Anthropology I

12.1(.2) Forensic Anthropology II

322.1(.2) General Physiology I

323.1(.2) General Physiology II

327.1(.2) Anatomy and Functional Morphology of Vertebrates

427.1(.2) Introductory Entomology

332.1(.2) Introductory Analytical Chemistry: Wet Methods

333.1(.2) Introductory Analytical Chemistry: Instrumental

hods

344.1(.2) Organic Chemistry I

E 345.1(.2) Organic Chemistry IIA

CHE 346.1(.2) Organic Chemistry IIB

€ 451.1(.2) Introductory Biochemistry

EGN 310.1(.2) Technical Communications

or EGL 201.1(.2) English Composition

PHY 230.0 Physics

4. Up to one (1.0) credit from the following:

MAT 210.1(.2) Introductory Calculus and either MAT 211.1(.2)

Calculus or MAT 316.1(.2) Introduction to Mathematical Statistics

BIO 308.1(.2) Biostatistics

BIO 408.1(.2) Embryology

PSY 230.1(.2) Memory

PSY 320.1(.2) Psychology and Law

GPY 316.1(.2) Map and Photo Interpretation

GPY 386.1(.2) Concepts in Geographical Information Systems (G.I.S.)

CRM 304.1(.2) Canadian Criminal Justice System (entry to this course may be restricted)

Faculty of Education

Dean
Dean
Dean

Michael J. Larsen B. Davis

pently Saint Mary's University is not admitting students to any of programs in the Faculty of Education. Students who have been perfect and are currently pursuing their studies will continue to the rules and regulations delineated in the Academic program. In addition,

the Acting Dean of Education is available for consultation as required.

Undergraduate Elective Courses

A number of courses are now available as electives to undergraduate students interested in exploring aspects of education. These are described in Section 5 of this Academic Calendar.

Study Abroad Opportunities

Mary's University believes that exposure to other cultures in mational and international community is an important part of a tersity education. Graduates with international and cross-cultural barience will be well placed to participate in the global economy.

S. Saint Mary's students are encouraged to take advantage of terminational programs to gain such experience and to undertake art of their study in another country or another part of Canada. In a semester-residence at another institution, or a volunteer work opportunity. The programs are open to students from any academic program of the country of the country

make the most of these opportunities students are encouraged

Begin with some of the many courses available at Saint Mary's ch focus on global issues or which develop foreign language

Plan well in advance, to allow time for academic, logistical, not travel arrangements.

Investigate the options available. Each program is unique, and range of opportunities for students is different each year. All abroad materials and information bulletins are on display at international Centre. Students should consult these materials as step, and then meet with the appropriate program coordinator.

Opportunities to enrich Saint Mary's programs of study are made possible through agreements with institutions such as:

- University of Western Sydney, Australia
- Bermuda College, Bermuda
- Business School, Sao Paolo, Brazil
- Pontifical Catholic University of Parana, Brazil
- Xiamen University, People's Republic of China
- Université Catholique de l'ouest, France
- Konstanz University, Germany
- Constance University of Applied Sciences, Germany
- Gujarat Vidyapith, India
- Hokkaido University of Education, Japan
- Josai International University, Japan
- Kumamoto Gakuen University, Japan
- Sapporo University, Japan
- Universidad Autonoma de Campeche, Mexico
- Universidad La Salle, Mexico
- Sun Yat-sen University, Taiwan
- Nova Scotia/New England Student Exchange Program, USA

The list of Saint Mary's University partner universities and opportunities for study abroad continues to grow. Please check the Saint Mary's Home Page for updated information.

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 honors 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 a B+ 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 matunty, motivation, life expenence,

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 the 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 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, Statistic 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 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 a they are received or in the month of June.

Pre-Architecture/Environment Design Studies

Saint Mary's University offers the first two years of study for studinterested in pursuing a Bachelor of Environmental Design Studies and Enviro

- two years (10.0 credits) of university study in any academid program with a minimum GPA of 2.5;
- one full-year class (or equivalent) in mathematics; Calculusterecommended, 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, precis drawings, paintings, furniture, sculpture, craft objects, creative photography, construction projects, etc.). Photographs should be used for larger items.

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 equivalence 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 rangel 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.

re-Education

intending to pursue a career in teaching must apply to a Bachelor of Education program after completing a Bachelor's Arts, Science, or Commerce. Those persons who wish to at the secondary school level should undertake a program in Bachelor's degree that will develop sound academic pration in a subject area normally taught at the secondary byel. Students wishing to teach at the elementary level develop a program in the first Bachelor's degree which has a n 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.

Student Counselling for Pre-Professional Programs

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

Fraduate Programs

eral Requirements

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

- of Arts in Atlantic Canada Studies
- of Arts in Criminology
- ser of Arts in Education
- of Arts in History
- of Arts in International Development Studies
- ser of Arts in Philosophy
- ser of Arts in Women's Studies
- duate Diploma in International Development Studies
- duate Diploma in Chminology
- mutate Courses in Geography
- ster of Business Administration
- ester of Education
- ster of Science in Astronomy
- ster of Science in Applied Psychology
- cor of Philosophy in Business Administration (Management)
- program of each student is administered by the academic boncemed. Each student shall comply with the general mations, the degree requirements, and any additional irements of the appropriate academic unit.

Qualifications for Admission

Admission is limited and at the discretion of the Department berned. General, as well as program-specific admission pirements have been established as a guide to applicants.

Session of these minimum requirements does not establish ight of the applicant to be admitted or readmitted to the mersity. The University reserves the right to accept or reject applicant. An acceptance is valid only for the two summer basions preceding an academic year (i.e., May to August) and bcademic session (i.e., September to May). It cannot be inred. An applicant who does not register in this twelve month frame must reapply for admission. Admission is not ranteed. Once admitted to the University, the student agrees abide by any and all rules and regulations affecting students cially passed and duly promulgated. The student agrees that ure to abide by such regulations and rules may result in bulsion from the University without refund of tuition or any other es paid by the student to the University. To be considered, an plicant shall hold a bachelor's degree or its equivalent from an stitution recognized by the Senate and shall have a knowledge the proposed field of specialization satisfactory to the partment concerned (or Departments, when interdisciplinary y is intended).

Preference will be given to applicants who hold an honors gree. In addition, admission will be granted only to those dents who show a high promise of success in post graduate dy as demonstrated by the results of appropriate tests and pir records of previous academic accomplishment. See the Mations listed under each graduate program for specific ditional minimum requirements for admission to that program.

Applicants whose mother tongue is not English may be. quired to demonstrate an appropriate level of proficiency in

Procedure for Admission

- Application for admission shall be made to the Director of Admissions. Applicants shall arrange to have forwarded to the Director of Admissions 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. Normally application forms and all supporting documents must be on hand by February 1 of the academic year prior to the one for which admission is sought. Because some academic units have an earlier deadline, applicants are advised to check carefully the material below pertaining to the particular program in which they are interested.
- Successful applicants will be notified by the Director of Admissions.

Registration

- Registration of students in graduate studies shall take place at times indicated in this Calendar and the Registration Book, published
- Students are not permitted to register until they have received notification of acceptance.
- Students can register on either a full or part-time basis depending on the terms of acceptance to their graduate program and with the permission of the Department Chairperson/Director. The normal academic and fiscal-definitions of full-time and part-time, as delineated in the Academic Regulations in Sections 2 and 6 of this Calendar, apply except in the instance where official verification has been received by the Registrar from a student co-signed by the Department Chairperson/Director indicating that the individual is working on a fulltime basis on a dissertation, thesis, major research paper/project, or is employed on an official Co-operative Education work term for which the student has officially registered. The verification is valid only for a single academic term but can be extended on the authorization of the Department Chairperson/ Director/Coordinator.

Program of Study and Research

- Students entering with an honors degree (or equivalent) must complete four (4.0) credits and submit an acceptable thesis. On the recommendation of the Department concerned, a three (3.0) credit program is permissible for a student undertaking a proportionately more demanding thesis. In Departments authorized by the Committee on Graduate Studies, a five (5.0) credit program, without thesis, is also acceptable for the degree. Courses in all programs must be at the 500 or 600 level, but where advisable, courses at the 400 level may be included in a program, provided that the requirements applying to graduate students in such courses be of a graduate standard.
- On the recommendation of the appropriate Department or Graduate Council, a maximum of twenty percent of the credits required for a graduate degree in Education, 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 fulfilment of the requirements for another degree. In the case of the MBA program, the maximum number of such transfer credits is five
- 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 Department in which research has been conducted under the direction of a supervisor appointed by the appropriate Department(s). An oral defense in the presence of an Examining Committee appointed by the Department is mandatory.
- e. Changes in either the program of courses or the topic of the thesis require the approval of the Department.

5. Period of Study

- The maximum period of a Master's degree program in Astronomy. Education, History, and Women's Studies shall be five years, and six years in Atlantic Canada Studies, Criminology, International Development Studies, and the MBA. For Philosophy and Psychology. the maximum period is three years for students with full-time admission status and five years for students with part-time admission status. Extensions may be granted. In order to establish a uniform standard across the University for the extension of Senate deadlines for completion of graduate degrees and for the re-admission of those graduate students who did not complete their graduate degree during the specific period of time. Department Chairpersons and/or Program Coordinators concerned must make their recommendations on either of the above matters to the Graduate Studies Committee which will consider the matter and communicate its final decision to the Chairperson of the Department or the Coordinator of the Program.
- b. Students may apply to the Committee on Graduate Studies through their Department Chairperson/Director for official withdrawal, for non-academic reasons, from their graduate program. If granted, students would then be required to reapply for admission at the point in time when they are in a position to resume their studies. If readmitted, the Department Chairperson/Director would be responsible for delineating the terms of readmission, including the outstanding academic requirements and the deadline for completion of the entire graduate program.
- Not later than the deadline for regular registration in an academic year or summer sessions, a student in a graduate program who has completed all of the program requirements except their thesis, dissertation or major research paper may apply for "inactive status" for a fixed and limited period of time. An "Application for Inactive Status Re: Research in a Graduate Program" is to be completed and filed with the Director/ Coordinator/Chairperson of the academic unit in which the student is enrolled. Requests must be documented demonstrating exceptional personal circumstances which would prevent research being undertaken in a specific period of time. The decision of the Chairperson/Director/Coordinator is final. If granted, the student is considered to be inactive in the program during the period of exemption but must pay an administrative fee of \$25.00 for each session (i.e. September to December; January to April; First Summer Session; Second Summer Session.) for which the exemption applies. All periods of exemption count towards the maximum period of study defined previously. The maximum period of exemption provided under this policy is twelve (12) months. To reactive their status, a student must file a Date Sheet with the Registrar.

Note: Students who withdraw officially from a graduate program for one or more academic years instead of applying for an exemption will continue to be governed by the policies delineated in this section of the *Academic Calendar*.

6. Evaluation

In order to qualify for a Master's degree a student shall obtain a quality point average of 3.00. Failure of any full course (or the equivalent) ordinarily will require withdrawal from the program. In exceptional circumstances, the Department and the Dean of the Faculty concerned may allow the student to remain in the program. In such a case, failure of a second full course (or equivalent) will require withdrawal from the program.

a. Letter grades and quality points for graduate courses will be assigned as follows. These are the quality points for full (i.e.

designed .0) courses. Half courses (i.e. designated 0.5) carry 50% of the quality points.

At= 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

IP = — = In Progress (Applicable for graduate level courses, thesis, dissertation, major research paper/project, and practicum courses; also for Co-operative Education work terms; and undergraduate honors courses. For all graduate thesis, dissertal major research paper/projects and practicum courses, this grade remain in effect until the expiration of the timeline for the complet the individual student's entire graduate program. The IP grade is calculated in quality point averages. Thereafter, it becomes an F ("failure") which is calculated into the calculation of a student's que point averages. For all other graduate courses, the IP grade is we only for a maximum of twelve months beyond the last day of class the semester in which the course was taught.)

The following grades shall be given when appropriate but wi
be calculated in the quality point or cumulative quality point avera
Aegrotat

AE

Authorized withdrawal

from a course W
In progress IP

Grades earned on advanced standing and transfer courses are a not included in the calculation of averages.

 In the case of advanced standing and transfer courses, cred not be awarded for less than a grade of B (or the equivalent).

7. Thesis/Major Research Project (if required)

- a. To be eligible for graduation at Spring Convocation, the stud finished thesis/major research project must be submitted to the Department no later than the last day of classes of the regular academic year and by 30 September for Fall Convocation.
- b. The thesis/major research project must be ruled acceptable the Examining Committee appointed by the Department. Any suggestions by the Committee concerning corrections, additional other necessary changes must be either carried out or formally reby the students before the thesis/major research project can be accepted.

c. The Student's Responsibilities

- (i) The thesis/major research project must be submitted in following form:
 - (a) Paper: Good quality bond paper, 21.5 cm (8 1/2") x 28 (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: approximately 150 words
- Must be in typescript
- Should bear the title "Abstract/Executive Summary" a include the name of the author, the title of the thesis/m research project and the date of submission.
- (e) Signature Page: A page designed to contain the signal all members of the Examining Committee, including an external examiners, if applicable.
- (ii) The student must also meet any additional requirement the Department concerned.
- (iii) The student must submit one original and two (2) copi the accepted thesis/major research project with the binding fee p

siness Office at the current rate. The original of this receipt is to be a the Registrar when the requisite number of copies of major research project are submitted. A duplicate receipt for mount must accompany the unbound thesis/major research delivered to the library, as proof of payment.

ampleted "Permission to Microfilm" form must also accompany This form, from the National Library of Canada, Canadian Division, is available from Information Services in the Library. It permission for the microfilming of the thesis/major research and the sale of the microfilm.

The Library's Responsibilities

The Library arranges for the binding of all accepted Major research projects.

Original copies of Master's theses/major research are sent to the National Library in Ottawa for microfilming e they are bound and placed in the archives.

- Copies of the theses/major research projects are bound stributed as follows:
- One copy is sent to the student's Department;
- One copy is catalogued and made available through the General Collection of the library; and
- One copy (the original) is placed in archives and remains as non-circulating material.

The Library will accept for binding additional copies of a strajor research project only if the student provides the extra and pays the additional binding fee. (Proof of payment in of a duplicate receipt must accompany additional

Academic Regulations

on 2 of this Calendar contains the University's academic infions. While many of these pertain primarily to graduate students, the attention of students in graduate ams is specifically directed to the following regulations:

Number of Courses in an Academic Session **Ruditing Courses**

- **Grading System**
- Undergraduate Rating, Grades and Quality Points (all except 5. subsections a. and c.)
- 6. **Quality Point Average**
- 7. Standing Required
- **Examinations**
- 9 **Evaluations**
- **Special Examinations**
- 11. Academic Appeals
- 12. Credit without Final Examination
- Course Changes
- 16. Withdrawing from a Course
- 17. Retaking a Course
- Withdrawal for Academic Reasons
- 19. Academic Responsibility
- 20. Advanced Standing
- 21. Transfer Credit
- 27. Convocation Dates, Degrees, Diplomas, and Certificates
- Degree, Diploma, or Certificate in Absentia
- Students' Academic Records and Transcripts 32.
- 33. Safety and Responsibility in Officially-Sanctioned University
- 34. University Research Ethics Board (REB)

Graduate students are also advised that the information in the registration portion of Section 2 of the Calendar applies, in most instances, to them. Academic advising for graduate students is provided in the first instance by the thesis supervisor or program director/coodinator. If problems cannot be resolved within the program, then advice may be sought from the Dean of Faculty or the Director of Graduate Studies and Research.

Specific Requirements of Academic Units

In addition to the above requirements, students must comply with any additional requirements of the Department concerned. These are delineated below and also in Section 5 of this Calendar.

10. Financial Regulations

Please consult Section 6 of this Calendar for details on all applicable

aculty of Arts - Graduate Programs

Faculty of Arts offers graduate programs in six areas rtic Canada Studies, Criminology (both a Master's degree a Graduate Diploma), History, International Development bes (both a Master's degree and a Graduate Diploma), beophy, and Women's Studies.

aster of Arts in Atlantic anada Studies

mmittee on Atlantic Canada Studies

larry, Coordinator arrett yme hamard harles hristiansen-Ruffman

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osper

lavis

Reid

bwell

issekamp

English Sociology Management

Finance and Management

Science Sociology Biology Sociology **Anthropology** French History

History

M. MacDonald K. MacKinnon

R. McCalla H. McGee

H. Millward J. Morrison D. Naulls P. O'Siadhail

D. Perrier J. Reid B. Robinson

A. Seaman R. Twomey M. Vance M. VanderPlaat

H. Veltmeyer T. Whalen M. Wiles

T.B.A.

Economics English

Geography Anthropology Geography History

Political Science Insh Studies Sociology History Geography **English** History History

Sociology Sociology English Biology

graduate student representative T.B.A. undergraduate student representative

Saint Mary's University offers an interdisciplinary program in Atlantic Canada Studies (ACS) that integrates the teaching and research expertise of 30 faculty members in thirteen 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.

The general requirements for the Master's degree apply to the graduate program in ACS.

Specifically, the Master's degree in ACS involves the following considerations and includes the following requirements:

- 1. The normal qualification for entry into the one-year Master's program is an honors degree in ACS, or a degree which the ACS Committee deems to be equivalent. 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 12 months, although in some cases thesis work may extend beyond this time period. The degree may also be taken through part-time study.
- The ACS 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 Paculty Advisor for the duration of a given student's participation in the program.
- 3. For the Master of Arts in ACS, 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 ACS Graduate Studies Coordinator (or appointee), and a third reader acceptable to the thesis supervisor and the ACS Committee.
- Students must complete four (4.0) credits at the 600 level approved for the ACS graduate program. Two (2.0) of these credits must be selected from the following ACS seminars:

ACS 620.0 Culture of Atlantic Canada

ACS 630.0 Seminar on Atlantic Canada Ecology and Resources ACS 640.0 Atlantic Canada Political Economy Seminar

ACS 660.0 History and Society: The Atlantic Provinces Seminar

7. All students, as part of their four (4.0) credit program, must complete ACS 690.0. 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 prograf Detailed course descriptions are found in Section 5 of this Calendar.

620.0 Culture of Atlantic Canada

630.0 Seminar on Atlantic Canada Ecology and Resources

640.0 Atlantic Canada Political Economy Seminar

650.0 Directed Reading

660.0 History and Society: The Atlantic Provinces Seminar

690.0 Thesis Research

S. Bell

Master of Arts in Criminology

Graduate Criminology Committee

D. Perrier, Coordinator Sociology/ Criminology

J. McMullan, Sociology/
Graduate Coordinator Criminology

S. Boyd Sociology/Criminology
D. Crocker Sociology/Criminology
A. Day Psychology
P. Erickson Anthropology

P. Erickson Anthropology
E. Keeble Political Science
R. Konopasky Psychology

E. Lee Finance & Management Sciel
G. Rigakos Sociology/Criminology
A. Schulte-Bockholt Sociology/Criminology

Sociology/Criminology

V. Stinson Psychology

The purpose of the Master of Arts program in Criminology is to edistudents for careers in teaching or research in criminology as well-for employment in agencies in the criminal justice system and relatifields. The Department of Sociology at Saint Mary's University has established an excellent scholarly and professional reputation in the field of criminology. The Master of Arts degree in criminology will provide graduates with analytical and research skills necessary follopolicy, research and administrative jobs in the field, as well as prothe scholarly basis for students to pursue doctoral studies in sociolegal studies, criminal justice, and criminology.

Students may be admitted to a qualifying year prior to making an application to the Master of Arts degree program. In exceptional circumstances, students who have earned an honors baccalaurea undergraduate degree; a baccalaureate undergraduate degree in criminology; or a baccalaureate undergraduate degree with a concentration in criminology may be admitted to a five (5.0) credit qualifying year for consideration into the Master of Arts degree program.

1. Admission Requirements

The following conditions must be satisfied to be eligible for admiss to the Master of Arts degree program in criminology or a qualifying year.

- a. Students who have earned an honors baccalaureate undergraduate degree in criminology (or equivalent), an honors baccalaureate undergraduate degree with a concentration in criminology (or equivalent), or on advanced major undergraduate degree (i.e., a minimum of 20.0 University credits) in Criminology (cequivalent) may be admitted to a four (4.0) credit Master of Arts deprogram.
- All applicants must have achieved a minimum cumulative quapoint average of 3.33 (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 written work and three letters of recommendation from individuals we 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 fulfil the language requirement as set out in the Academic Regulations and Information section of the Calendar.

Graduate Criminology Committee of the Department of and Criminology will review the files of all applicants final decisions about admission into the Master of Arts program or a qualifying year.

addition, applicants admitted to the qualifying year must their courses approved by the Criminology Graduate Studies cinator.

student in the five (5.0) credit qualifying year must make application to the Master of Arts degree program by 1 of their qualifying year and have attained a minimum thative quality point average of 3.33 (B+) to be considered for to this Master of Arts degree

Degree Requirements

imments for continuance in and graduation with a Master of imagree:

Sudents must earn at least four (4.0) credits.

Sudents must receive credit for the following:

- CRM 600.0 Advanced Seminar in Criminology;
- CRM 601.1(.2) Advanced Criminological Theory;
- (iii) CRM 602.1(.2) Advanced Research Methodology in linelogy;
- one (1.0) credit at the 600 level, relevant to the hit's area of interest from among the following courses: 603.1(.2); CRM 604.1(.2); CRM 605.0, CRM 606.1(.2); CRM (2); CRM 608.0; CRM 609.1(.2); CRM 610.1(.2); and CRM
- (v) CRM 615.0 Thesis Research.

Students must attain a minimum grade of B+ in each course an overall cumulative quality point average of 3.33 to the function of the state of the st

Each student must meet the following thesis (CRM 615.0) Terments:

- (i) to produce a thesis which shows both originality and the scal/critical skills of research and interpretation;
- (ii) to form a Thesis Committee which will consist of a sis Supervisor and one faculty member.
- (iii) to have a thesis proposal submitted to and approved by Thesis Committee and Criminology Graduate Studies indinator prior to commencement of the research;
- (iv) to defend the thesis before an Examining Committee string of the Thesis Committee, the Criminology Graduate Coordinator, and one outside reader chosen by the Committee in consultation with the Criminology Graduate Coordinator and the student. In instances where the Coordinator is a member of the Committee, the Criminology Graduate Studies Coordinator Coordina
- (v) to defend the thesis publicly.

All degree requirements must be completed within five years of yinto the Master of Arts degree program.

duate Courses

Tollowing constitute the offerings in this graduate program. ailed descriptions are found in Section 5 of this Calendar.

 M 600.0 Advanced Seminar in Criminology
 M 601.1(.2) Advanced Criminological Theory
 M 602.1(.2) ■dvanced Research Methodology in Criminology

CRM 603.1(.2)/604.1(.2) and 605.0 Advanced Topics in Criminology CRM 606.1(.2)/607.1(.2) and 608.0 Directed Readings in Criminology CRM 609.1(.2)/610.1(.2) and 611.0 Selected Topics in Criminology CRM 615.0 Thesis Research

Master of Arts in History

Chairperson, G. Young **Professors** E. Haigh, C. Howell J. Morrison, J. Reid. R. Twomey **Associate Professors** B. Kiesekamp, W Mills M. Vance **Assistant Professors** L. Paris, B. Sewell, L. Wamer Adjunct Professor R. Perrins **Professors Emeriti** S. Bobr-Tylingo, O. Carrigan. J. MacCormack

Graduate students of History learn techniques of research and analysis which enable them to make critical evaluations, whether in reading a newspaper, studying a report, or in many other fields. Someone with an historical background will be able to look beneath the surface, to question and analyze what is written.

History is a discipline in which students learn to declare themselves after preparing and arguing the best case they can. The ability to evaluate evidence and make a judgement about it is important for everyone, but especially for people who may later be dealing with evidence in a legal context. It is also useful in business or journalism, where judgements must often be based, as in historical analysis, on evidence that is less than complete.

Graduate training in History can also be invaluable for more specialized purposes. In addition to working as university scholars, historians are needed in the teaching profession and are employed by such government departments as Parks Canada. There are also opportunities for contract work writing historical articles and books on commission.

The University's general requirements for admission to graduate studies and for the Master's degree apply to the Department of History. Applicants for admission to the graduate program in History must submit a succinct statement of their anticipated field of study and anticipated choice of a thesis topic. The following are the research interests of members of the Department of History.

Northeastern North America, 1480-1725

American Revolution and Early National Eras

Atlantic Canada (particularly Sport, Leisure and Medicine)

Higher Education in Canada

History of Science (particularly in the Maritimes)

Marriage and Family in Canada

Modern Europe (Germany, France, Italy, Spain)

Latin America since Independence

19th and 20th Century South Africa

Immigrant Colonial Experience (particularly within the British Empire)
The Age of Democratic Revolution

18th and 19th Century Radicalism and Social Change Scottish and Irish Emigration (particularly to Eastern Canada)

World History South East Asia

Historiography

Religion in Canada

Canadian Nationalism and Politics

The particular requirements of the Department, which include a thesis as well as course work, are as follows:

 Students with a general Bachelor of Arts must satisfy the course requirements of the honors program in History or its equivalent before entering a one-year Master's program. Candidates must then complete two (2.0) additional history credits at the 600 level in addition to HIS 650.0 and 690.0. The program of each student must be approved by the Department.

- All Masters of Arts candidates in History, whether studying on a full or part-time basis, must register for HIS 650.0 and 690.0 in their first semester.
- Each 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 200-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
- The subject of the thesis must be decided in consultation with the thesis advisor.
- Upon completion of the thesis, an oral defence will be required. Two months prior to this defence, the student will be invited to select an examination board, subject to the approval of the Department. While the Department will make every attempt to meet individual requests, it cannot guarantee full compliance.

The following constitute the offerings in the graduate program. Detailed course descriptions are found in Section 5 of this Calendar.

610.0 Global History: History and Historians

611.0 Modem East Asia, Selected Problems in Modernization

612.0 Selected Problems in Post-Confederation Canadian History

615.0 Seminar in Histonography

617.0 Seminar in Modern British History

619.0 Seminar in Modern European History

620.0 The Two World Wars

622.0 Seminar in American History

624.0 The U.S.S.R.

625.0 Seminar in Irish and Scottish Immigration

635.0 Northeastern North America, 1480-1720

650.0 Seminar in Advanced Historiography

660.0 History and Society: The Atlantic Provinces Seminar

689.1(.2) Reading Course in History - Selected Topics in Irish History

690.0 Thesis Research

695.1(.2)-699.1(.2) Reading Courses in History

Master of Arts in International Development Studies

Executive Committee on International Development Studies

S. Dansereau, Coordinator

C. Beaupré

G. Cameron J. Chamard

T. Charles

A. M. Dalton

E. Keeble

D. Leclaire

H. McGee

R. McKinnell

J. Morrison N. Sharif

E. Tastsoglou

L. Vasseur

H. Veltmeyer

S. Wein

International Development Studies

Modem Languages

International Development Studies

Management

Finance and Management Science

Religious Studies Political Science

International Activities

Anthropology

International Development Studies

History

Economics

Sociology

Environmental Studies

Sociology Philosophy

Adjunct Professors

K. Ahooja-Patel, C. Amaratunga,

G. Cameron, D. Fletcher,

J. Kirk, R. McKinnell,

A. O'Malley, J. Parpart,

S. Patel, R.J. Sacouman,

R. Sargent, P. Scholey. B. Suso, T. Shaw, J. Tellez

Note: In addition to the above IDS Executive Committee members Adjunct Professors, there are several other Saint Mary's faculty members teaching IDS related courses.

The graduate degree program is an interdisciplinary program inclua core program of policy-oriented courses in the field of Internation Development Studies in addition to offerings by associated acade departments primarily Economics, Political Science, Sociology and History, as well as Anthropology, Geography, and International Business (Management and Marketing).

This interdisciplinary program has as its primary focus an analysis the problems experienced by developing countries in the Caribbe Latin America, Asia and Africa; and of the social, cultural, econom historical and political structures and forces that underlie and prod these problems. Another concern of the program Is with the development strategies pursued by groups of people and govern in these developing countries. An evaluation of the different mode and strategies for national development in an increasingly global context is an important feature of the program.

The program currently has 5 areas of specialization:

- Development Paradigms: Theory and Practice of International Development
- Gender and Development
- 3. Popular Approaches to Development
- 4. **Environment and Development**
- **Enterprise and Development**

The graduate program of study will be useful to those seeking employment in national and international settings, as knowledge of Third World is increasingly needed in many departments of the Fe Government (CIDA, External Affairs, International Trade), international development agencies and immigration services, non-government organizations and professions such as teaching, journalism, development planning, administration and business.

Graduate courses are available to students registered in the Maste degree program; other students must have approval of the Coordi of International Development Studies.

Requirements

The general requirements for the Master's degree delineated above in this section of the Calendar apply to the graduate program in International Development Studies (IDS). The specific requirements and conditions of the Master's degree in International Development Studies are as follows.

For further information, please consult the Coordinator of the IDS Program.

CATEGORY I (4.5 credits)

Students who have earned an honors baccalaureate undergraduate degree with a major concentration in International Development (or its equivalent) may be admitted directly into a four and one half credit (4.5) program (Category I).

(a) THESIS OPTION:

I Theory Requirement (1.5 credits)

IDS 601.1(.2) Dynamics of Development: Framework of Analysis and Practice; and IDS 602.1(.2) Dynamics of Development: Critical Issues; and

b. one half credit (0.5) theory course at the 600 level in the Departments area of specialization.

II Methodology Requirements (0.5 credit)

III Electives (1.0 credit)

Any IDS related course at the 500 or 600 level.

IV Thesis (1.5 credits)

IDS 692.1(.2) Proposal Design; and

IDS 690.0 Thesis Research.

APPLIED OPTION:

Theory Requirement (1.5 credits)

a. IDS 601.1(.2) Dynamics of Development: Framework of

and Practice:

- one half credit (0.5) theory course at the 600 level in the
- one half (0.5) theory course at the 500 or 600 level.

Applied or Methods Requirement (2.0 credits)

ISD 520.1(.2) Research Methodology or

Cycle; and

one and one half (1.5) credits to be chosen from the session of the session one and one half (1.5) credits to be chosen from the session of t

Applied Research Project (1.0 credit)

IDS 692.1(.2) Proposal Design; and

IDS 693.1(.2) Applied Project.

TEGORY II (7.0 credits)

conts who have earned an honors baccalaureate praduate degree (or its equivalent) with a minor santration [four (4.0) relevant credits] or practical experience field of International Development must take an additional and one-half credits (2.5), for a minimum total of seven (7.0) (Category II).

THESIS OPTION:

ory Requirements (2.5 credits)

a. IDS 543.1(.2) Seminar in Development

Conceptual Foundations; and IDS 544.1(.2) Seminar in IDS 544.1(.2) S

 b. IDS 601.1(.2) Dynamics of Development: Framework of and Practice; and IDS 602.1(.2) Dynamics of adaptment: Critical Issues; and

One half (0.5) theory credit at the 600 level in the

ethodology Requirements (1.0 credit)

IDS Research Methodology (or equivalent);

. IDS 620.1(.2) Research Method.

Area Studies Requirement (Asia, Africa, or Latin America) (0.5 credit)

Elective Course Requirements (1.5 credits)

IDS related course at the 500 or 600 level.

Thesis (1.5 credits)

IDS 692.1(.2) Project Design; and IDS 690.0 Thesis Research.

APPLIED OPTION:

eory Requirements (2. 5 credits)

- a. IDS 543.1(.2) Seminar in Development Studies Conceptual andations; and IDS 544.1(.2) Seminar in Development Studies temporary Issues. [These must be taken prior to IDS 601.1(.2)];
- b. IDS 601.1(.2) Dynamics of Development: Framework of mysis and Practice;
- one half (0.5) theory credit at the 600 level in the partment's area of specialization; and
- d. one half (0.5) theory course at the 500 or 600 level.

Applied or Methods Requirements (2.5 credits)

a. IDS 520.1(.2) Research Methods or Project Cycle; and
 (2.0) credits chosen from the Applied or Methods courses.

Area Studies Requirement (Asia, Africa, or Latin America) 5 credit)

Elective Course Requirements (1.5 credits) IDS related course at the 500 or 600 level.

All students must receive credit for a minimum of four and one f credits (4.5) and a maximum of eight and one-half credits (8.5). At st one-half of the students' credits must be from Saint Mary's iversity course offenings.

A minimum average of B (or equivalent) is required for duation.

- 3. All degree requirements must be completed within six years of the date of first registration in the program.
- 4. 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 their academic or professional competence and/or interest in pursuing graduate training in International Development.
- A minimum score of 550 on the TOEFL is required of all international applicants whose native language is not English and whose undergraduate education was conducted in a language other than English.
- 6. The Graduate Committee of the IDS Program will review the files of all applicants and determine, on a competitive basis, final admission into the program. Successful students will be advised of the category of their admission and the credit requirements of their program in the letter of acceptance.
- Selected courses offered by associated academic units departments at Saint Mary's University will be chosen from an approved list in consultation with the International Development Studies Coordinator.

Master of Arts in Philosophy

Chairperson, Associate Professor Professor, Undergraduate Advisor Professor, Graduate Officer Associate Professor Assistant Professors

S. Crooks W. Grennan S. Wein

P. March R. Ansell, J. Blair, J. MacKinnon,

M. Mercer R. Beis, A. Monahan,

W.A. Stewart, S.J.

The University's general requirements for admission for graduate studies and for the Master's degree apply to the Department of Philosophy. The particular requirements of the Department are as

follows. They are currently under review and are subject to revision.

Professors Emeriti

1. Admission Requirements

- a. Only students who have earned an honors degree in Philosophy, or the equivalent, will be admitted to the one-year program. Other students must first obtain the equivalent of an honors degree in Philosophy.
- Applicants must submit academic transcripts, a statement specifying areas of preparation, and three letters of reference. In addition, applicants must have identified a topic for their research.
- c. 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 three (3.0) credits at the 600-level, and in addition will write a thesis (696.0 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 defense, to which members of the academic community will be invited. Following the thesis defense, 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.

601.1(.2) Honors/Graduate Seminar

602.1(.2) Philosophy of Language: Meaning 603.1(.2) Philosophy of Language: Speech Acts

606.0 Theory of Knowledge 607.0 Philosophy of Perception 610.0 Political Philosophy

616.1(.2) Advanced Logic and Methodology

625.1(.2) International Justice

640.1(.2) Medieval Philosophy: Early Period to 12th Century

641.1(.2) Medieval Philosophy: 13th; 14th Genturies 642.1(.2) Early Modern Philosophy: The Rationalists 643.1(.2) Early Modem Philosophy: The Empiricists

644.1(.2) Later Modem Philosophy: Kant

645.1(.2) Greek Philosophy: The Presocratics and Plato 646.1(.2) Greek Philosophy: Aristotle and the Hellenists 647.1(.2) Later Modem Philosophy: The German Idealist

648.1(.2) Aesthetics: The Classical Tradition

649.1(.2) Aesthetics: Contemporary Debates

Phenomenology 650.0 652.1(.2) Philosophy of Science

654.1(.2) Philosophy of History

655.1(.2) Existentialism: The 19th Century: Kierkegaard, Nietzsche 656.1(.2) Existentialism: The 20th Century: Jaspers, Marcel, Camus,

Analytic Philosophy

671.1(.2) Meta-ethics 672.1(.2) Foundation of Ethics

679.0 Senior Seminar

Philosophical Issues in Feminism 680.0

685.1(.2)-689.1(.2); 690.0-695.0 Reading Courses in Philosophy

Master's Thesis

Master of Arts in Women's **Studies**

(offered jointly by Mount Saint Vincent University, Dalhousie University, and Saint Mary's University)

Co-ordinator of Graduate Program in Women's Studies (Saint Mary's) L. Christiansen-Ruffman

The following faculty members across the three universities are available to serve as student supervisors in the Master of Arts in Women's Studies:

J. Auger (Acadia)

Sociology P. Baker (MSVU) Sociology/Social Anthropology

J. Bankier (Dal)

Sociology/Social Anthropology P. Barber (Dal)

Women's Studies

S. Batt (MSVU)

B. Bednarski (Dal) French Sociology S. Bell (SMU) W. Bernard (Dal) Social Work S. Boyd (SMU)

C. Brown (Dal) S. Bruhm (MSVU) S. Gampbell (Dal) L. Carbert (Dal)

J. Cauville (SMU) L. Christiansen-Ruffman (SMU) S. Crooks (SMU)

J. Crowley (Dal) A. Dalton (SMU)

J. Deleas (MSVU) J. Downie (Dal) F. Early (MSVU)

D. Evenden (MSVU) J. Fingard (Dal)

S. Finson (AST) P. Fitzgerald (SMU) B. Frank (MSVU) D. Ginn (Dal)

D. Glowacha (Kings)

J. Gordon (MSVU) R. Hulan (SMU)

J. Jarman (Dal) L. Jackson (Dal)

W. Katz (SMU) B. Keddy (Dal)

E. Keeble (SMU) T. Laidlaw (Dal) C. Luckyj (Dal)

M. MacDonald (SMU) A. MacNevin (SMU) C. Mathieson (MSVU)

S. Medjuck (MSVU)

R. Neal (Dal) L. Neilsen (MSVU) D. Norris (MSVU) I. Oore (Dal)

J. Parpart (Dal) E. Phipps (Dal) H. Ralston (SMU)

M. Ralston (MSVU) B. Richard (Dal) J. Scrimger (MSVU)

S. Sherwin (Dal)

K. Side (MSVU) M. Stone (Dal)

E. Tastsoglou (SMU) G. Thomas (SMU) G. Thomas (SMU)

J. Thompson (Dal) E. Thomhill (Dal)

S. Tillotson (Dal) E. van Roosmalen (Dal)

M. VanderPlaat (SMU)

D. Varga (MSVU) R. Warne (MSVU)

J. Wark (NSCAD) R. Zuk (MSVU)

Sociology/Criminology

Social Work English Philosophy Political Science Modem Languages Sociology/IDS Philosophy

History **Religious Studies** Modern Languages/Fine Arts

Health Law History History History

Pastoral Theology Management Education Law English

Sociology/Anthropology

English

Sociology/ Anthropology

Health English Nursing

Political Science Medical Education

English Economics Sociology **Psychology**

Sociology/Anthropology

Social Work Education **Human Ecology** French History/IDS **Economic** Sociology

Women's Studies Social Work **Public Relations** Philosophy Women's Studies

English Sociology/IDS Classics **English English** Law

History Sociology/Social Anthropolog Sociology

Child and Youth Studies

Religious Studies Art History

English

Consult the Academic Calendars of the three cooperating institutions.

This degree is offered jointly by Mount Saint Vincent University Dalhousie University, and Saint Mary's University. The degree be granted jointly by the three cooperating universities, and ea 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 linka and the emerging body of feminist theories and methodologies Drawing on the collective resource of faculty members across three universities, the program has the following areas of specialities: Feminism and Global Issues; Feminism and Cultur Studies; Feminist Environmental Issues; Feminist Literary The and Literary History; Feminist Studies of Language and

Feminist Theory and Methodology; Gender and Gender and Education; Lesbian/Bisexual/Queer North American Women's History; Women and Health; and Sexuality; Women and Social Change; Women and Spituality; Women and Work; Women, Human Rights Justice; Women, Race and Ethnicity; Women's

Requirements

to following normal university procedures for the graduate programs, students must submit official topts, three letters of reference, and a supplementary aton form. Application can be made to any of the three stees. Decisions on admission are made by the states of the graduate Admissions and Program will also be based on the availability of Women's faculty with the expertise to supervise in the student's area of research

gram Requirements

(5.0) credit program includes both course work and thesis and pursued either full-time or part-time. It may be completed in months but often requires two years.

the five (5.0) credit program will consist of:

one and one-half (1.5) credits from core courses (Theories of mism, Ferninist Methodologies, Graduate Seminar);

two (2.0) credits from thesis;

one (1.0) credit from electives oriented toward the thesis (its plance, theories, or methodologies);

one-half (0.5) credit from elective courses.

electives can be chosen from graduate level courses offered by a of departments at the three universities, in consultation with the lent's faculty advisor.

following constitute the offerings in this graduate program.
 ited course descriptions are found in Section 5 of this

\$601.1(.2) Theories of Feminism

602.1(.2) Feminist Methodologies

\$ 603.1(.2) Graduate Seminar (half-credit, meets throughout both semesters)

\$ 604.1(.2)-605.1(.2) and 606.0 Contemporary Issues in Feminism

S 609.1(.2)-611.1(.2); 612.0-613.0 Directed Study

\$ 614.1(.2)-615.1(.2) and 610.0 Directed Readings in Women's Studies

620.1(.2)-621.1(.2) Seminar on Women's Studies

\$ 698.0/699.0 Thesis

raduate Diploma in riminology

Perrier, Coordinator

Rell

Boyd

Day Erickson

Lee

Crocker

Keeble

Rigakos

Konopasky

Sociology/Criminology

McMullan, Graduate Coordinator

Sociology/Criminology Sociology/Criminology Sociology/Criminology Sociology/Criminology

Psychology Anthropology Political Science

Psychology

Finance and Management Science Sociology/Criminology Sociology/Criminology

Schulte-Bockholt Sociology/C Stinson Psychology **Admission Requirements**

To be eligible for admission to this graduate diploma program, applicants must satisfy the following criteria:

- a. have an honors baccalaureate undergraduate degree in criminology (or equivalent); an honors baccalaureate undergraduate degree with a concentration in criminology (or equivalent); or an advanced major undergraduate degree (minimum of twenty 20 credits) with a concentration in criminology (or equivalent);
- b. have achieved a minimum cumulative quality point average of 3.33 in their overall academic record;
- submit official transcripts from recognized post-secondary academic institutions; and
- 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 fulfil 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 four (4.0) credits;
- b. achieve a minimum grade of B+ in all courses required of their program; and
- complete the course requirements within five years of formal admission to the program.

Program Requirements

The Graduate Diploma in Criminology requires a minimum of four (4.0) credits: two (2.0) core courses (as designated below) and two (2.0) elective courses (also so designated):

a. Core Courses - two (2.0) credits:

CRM 600.0 Advanced Seminar in Criminology CRM 501.1(.2) or CRM 601.1(.2) Advanced Criminological Theory CRM 502.1(.2) or CRM 602.1(.2) Advanced Research Methodology in Criminology

b. Elective Courses - two (2.0) credits:

CRM 603.1(.2)/CRM 604.1(.2) Advanced Topics in Criminology CRM 605.0 Advanced Topics in Criminology CRM 606.1(.2)/CRM 607.1(.2) Directed Readings in Criminology CRM 608.0 Directed Readings in Criminology CRM 609.1(.2)/CRM 610.1(.2) Selected Topics in Criminology CRM 611.0 Selected Topics in Criminology

Graduate Courses

The following constitute the offerings in this graduate program. Details descriptions are found in Section 5 of this Calendar.

CRM 600.0 Advanced Seminar in Criminology CRM 601.1(.2) Advanced Criminological Theory

CRM 602.1(.2) Advanced Research Methodology in Criminology

CRM 603.1(.2)/604.1(.2) Advanced Topics in Criminology

CRM 605.0 Advanced Topics in Criminology

CRM 606.1(.2)/607.1(.2) Directed Readings in Criminology

CRM 608.0 Directed Readings in Criminology

CRM 609.1(.2)/610.1(.2) Selected Topics in Criminology CRM 611.0 Selected Topics in Criminology CRM 615.0 Thesis Research

Graduate Diploma in International Development Studies

Executive Committee on International Development Studies

International Development Studies S. Dansereau, Coordinator Modem Languages C. Beaupré G. Cameron International Development Studies J. Chamard Management T. Charles Finance and Management Science A. M. Dalton **Religious Studies** E. Keeble Political Science D. Leclaire International Activities H. McGee Anthropology R. McKinnell International Development Studies J. Morrison History N. Sharif **Economics** E. Tastsoglou Sociology

L. Vasseur Environmental Studies
H. Veltmeyer Sociology
S. Wein Philosophy

Adjunct Professors

K. Ahooja-Patel, C. Amaratunga, G. Cameron, D. Fletcher, J. Kirk, R. McKinnell, A. O'Malley, J. Parpart, S. Patel, R.J. Sacouman, R. Sargent, T. Shaw, B. Suso, J. Tellez

Program

The graduate diploma program is based on a core of policy and practice oriented courses offered in International Development Studies and associated academic departments. It is aimed at professionals who do not require an advanced research program leading to the production of a thesis. It consists of four credits (4.0) and can usually be completed in a nine month period. This interdisciplinary program of courses will be useful to practitioners at the level of government, international and non-government organizations, including business.

Admission Requirements

- a. Either an undergraduate degree and practical experience as a development practitioner or an undergraduate honors degree (or its equivalent) in International Development Studies or a closely-related field.
- an official transcript from a recognized post-secondary academic institution;
- at least two letters of reference attesting to the applicant's academic and/or professional competence, suitability, and relevant experience; and
- d. for applicants whose first native language is not English and whose undergraduate education was conducted in a language other than English, a minimum score of 550 on the TOEFL (or its equivalent).

A committee of IDS faculty members will review the completed files of each applicant and will make the final determination of admission to the program.

Program Requirements

Each candidate must complete the following requirements:

- a. The two (2.0) credit core program, namely,
- (i) IDS 543.1(.2) Seminar in Development Studies: Conceptual Foundations, or
 IDS 601.1(.2) Dynamics of Development: Framework of Analysis and Practice
- (ii) IDS 544.1(.2) Seminar in Development Studies: Contemporary

Issues, or IDS 602.1(.2) Dynamics of Development: Critical Issues

- (iii) IDS 545.1(.2) The Project Cycle
- (iv) Any other IDS Applied or Methods half (0.5) course at the 500 level or 600 level.
- b. The elective program, consisting of at least two (2.0) credit from the IDS graduate offerings. Permission to register for these courses must be received in writing in advance of registration from the Director of the Graduate Diploma Program. Courses must be selected to create an area of concentration from one of the program's five areas of specialization:
- Development Paradigms: Theory and Practice of International Development
- 2. Gender and Development
- 3. Popular Approaches to Development
- 4. Environment and Development
- 5. Enterprise and Development
- A minimum cumulative quality point average of 3.00 is required for graduation.

Note: Courses taken to fulfil the requirements of an undergraduate program cannot be used again to fulfil the requirements of the Graduate Diploma in IDS.

The offerings of this graduate program are found in the description of the Master of Arts (International Development Studies) and also in the I.D.S. Handbook, available from the Coordinator of this program

Graduate Courses in Geograph

Although the Department of Geography does not offer a graduate program, a number of graduate level courses are available. These

GPY 602.0 Directed Studies in Urban/Regional Geography

GPY 603.0 Directed Studies in Environmental Geography

GPY 604.0 Directed Studies in Marine Geography

GPY 605.0 Directed Studies (General)

GPY 612.1(.2) Directed Studies in Urban/Regional Geography

GPY 613.1(.2) Directed Studies in Environmental Geography

GPY 614.1(.2) Coastal Zone Planning

GPY 615.1(.2) Directed Studies (General)

GPY 624.1(.2) Directed Studies in Marine Geography

GPY 632.1(.2) Social Geography of the City

GPY 636.1(.2) Advanced Remote Sensing

GPY 639..1(.2) Urban Historical Geography

GPY 642.1(.2) Urban Planning

GPY 652.1(.2) The Geography of Urban Transportation

GPY 686.1(.2) Concepts in GIS

GPY 696.1(.2) Applications in GIS

For further information, please consult the Chairperson of the Department of Geography.

aculty of Commerce - Graduate Programs

of Commerce offers two programs of study leading to Business Administration degree; also a program a Doctor of Philosophy in Business Administration

kecutive Master of Business dministration (EMB)

Professors

Sanjay Sharma Timothy O'Neill, Maurice Tugwell Bonnie Kirby

Manager

- Rogram

moutive MBA is a four-semester program designed to meet moue needs of both mid-career managers who have histrated the potential to reach senior management and senior managers who want to increase significantly be sonal and organizational effectiveness. The Executive structured as an integrative program that will enhance that ability to think across functional lines and understand the "whole enterprise" in its global competitive situation.

mance of Program

pogram administration is under the direction of the EMBA

This Council consists of one member representing each pepartments in Commerce; the EMBA Director; a pentative from the MBA Graduate Council; and pentatives from the Alumni, the EMBA students, and

matters of course scheduling and required withdrawal of this, the EMBA Council will make the decisions and municate these to appropriate administrative bodies through EMBA Director. In the matter of recruiting, faculty members becommended to the Dean by the EMBA Council.

year the EMBA Council will constitute a subcommittee
the "Admissions Committee". This Committee shall have
EMBA Council members, both of whom are instructors in the
man at Saint Mary's and the EMBA Director. The Dean of
merce may also opt to sit on this Admissions Committee.

EMBA participant who fails in a course will be required to be draw from the program. No credit will be recognized for the courses which the student may have successfully lated

EMBA student who is required to withdraw may, after the of one calendar year, seek re-admission. The application admission shall be evaluated by the EMBA Council (and he Admissions Committee alone). The Council may deny re-bission or re-admit subject to stipulated conditions. A student withdraw voluntarily and seek admission in later years. After use of three years, credit for previous EMBA courses will not be considered.

alifications for Admission

EMBA Admissions Committee will consider an applicant's academic record, scores on the GMAT, military or work mience, extracurricular activities, letters of recommendation, the written application. While each of these general criteria is

partant, the applicant's entire profile will be evaluated, where particant strengths in one area may help compensate for the session another.

scores and scademic records will be evaluated as evidence

of academic quality; 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;
- sponsorship by an employer who agrees to pay all or part of the fees and guarantees the involvement of the employer to facilitate successful completion of the program; or the ability to pay the fees independently;
- 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);
- taken the Graduate Management Admissions Test (GMAT), or its equivalent, such as the GRE;
- two letters of reference from work-related or academic sources.

Upon acceptance, each student will be provided, as appropriate, with orientation materials designed to upgrade skills in Quantitative Methods, Computer Literacy and/or Appreciation of Financial Statements. Where necessary, courses will be run on campus prior to the commencement of classes, so that students are fully conversant in a computerized-learning environment and possess the quantitative skills expected.

Program Highlights

- 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.
- An understanding of economic, social, political, and environmental forces that affect the organization and influence managenal 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.

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 10:00 p.m. and Saturdays from 8:30 a.m. to 6:00 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 Year1.

Curriculum

First Year: Required Courses

EMB 511.1(.2) Managerial and Financial Accounting

EMB 512.1(.2) Organizational Behaviour and Theory

EMB 513.1(.2) Strategic Marketing

EMB 514.1(.2) Business Research Methods

EMB 521.1(.2) Corporate Finance

EMB 522.1(.2) Managerial Economics

EMB 523.1(.2) Operations Management

EMB 524.1(,2) Human Resource Management

Second Year: Required Courses

EMB 631.1(.2) Management Information Systems

EMB 632.1(.2) International Capital Markets EMB 633.1(.2) Policy I - Business Strategy

EMB 634.1(.2) Business Research Project I

EMB 641.1(.2) International Business

EMB 642.1(.2) Policy II - Public Policy in Business

EMB 646.1(.2) Business Research Project II

EMB 690.1(.2) Seminar in Business Studies

EMB 691.1(.2) Directed Study

Elective Courses

EMB 643.1(.2) Industrial Relations

EMB 644.1(.2) Financial Innovations

EMB 645.1(.2) International Marketing

EMB 647.1(.2) Entrepreneurship and Family

Business

Summary: 15 required courses; 1 elective.

In order to qualify for a Master's degree, a student shall obtain a minimum cumulative quality point average of at least 3.00. Failure of a course requires the withdrawal from the program. Letter grades and quality points for graduate courses will be assigned as follows:

A+ = 4.00 = Excellent

= 4.00 = Excellent

A- = 3.67 = Very Good

B+ = 3.33 = Good

= 3.00 = Satisfactory

B- = 2.67 = Below graduate standard

= 2.00 = Marginal Pass

= 0.00 = Failure

= In progress (Reserved for Research Projects.)

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)

Director

Ramesh Venkat

Program Manager

Jennifer Johnson

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 I flexibility to design a program of study that is general in orientation or more focused and specialized.

Qualifications for Admission

Admission to the program is open to students with a bachelod degree from a recognized university, whose academic record indicates that they should be successful in studying manager and administration at the graduate level, and who obtain a satisfactory score in the GMAT.

Application Procedures

Applications for admission to the MBA program should be ma as early as possible. The normal deadline for the receipt of all application material is May 31, for entry the following Septemb except for international students whose applications and all supporting documents must be received by April 1.

Application material and program information may be obtained contacting the Director of Admissions at the following address

Director of Admissions

Saint Mary's University

Halifax, Nova Scotia B3H 3C3

Tel: 902-420-5415

Fax: 902-496-8100

e-mail: admissions@stmarys.ca or the international e-mail; admit.international@stmarys.ca

To be considered for admission, students will be required, will applicable, to submit the following to the Director of Admission

- completed application forms;
- two official transcripts for all previous post-secondary courses undertaken:
- two letters of recommendation;
- a typed, detailed resume of work experience;
- GMAT results (Note: 0958 is the appropriate code for the MBA program at Saint Mary's University);
- for students whose native language is not English, a so of at least 4.5 on the CanTest with a score of at least 4.0 on each component (oral, listening, reading, and writing) or a so of at least 550 on the Test of English as a Foreign Language (TOEFL - the TOEFL-CAT minimum score is 213) with a sco at least 5.0 on the Test of Written English (TWE) or 5.0 on the essay rating in the TOEFL-CAT is required;
- a non-returnable application fee of \$35.00.

Note: Inquiries regarding the documentation supporting an application for admission are to be addressed to the Directol Admissions. Inquiries concerning the program itself and deal on applications for admission should be made to the MBA Program Manager.

Financial Aid

In addition to Canada Student and other loans, financial aid available through University scholarships and assistantships number of scholarships is limited and they are granted base information provided in the student's application. Students d apply for scholarships. Applications for assistantships should made to academic departments in the Faculty of Commerca Section 6 for additional information).

Registration

A non-refundable confirmation of acceptance deposit of \$10 Canadian is applicable to the MBA program. This deposit was applied to tuition fees on registration.

Part-Time Basis

The program is available on a part-time basis for students wish to complete it in part, or whole, while remaining in fullemployment. If possible, at least two courses from each year the program will be offered in evening classes each semes Subject to satisfactory enrolment, courses will also be offend during the summer sessions.

ching Methodology

program is neither discipline nor case oriented, but courses sace combinations of lectures, case discussions, seminars, assignments according to the requirements of the individual tasts. Since the Faculty has extensive business as well as mic experience, attention is focused on both the practical academic aspects of the materials covered during the

ing at Other Institutions

sents may use a Letter of Permission to enrol in graduate universities and receive credit for the courses in IBA degree. This flexibility enhances the opportunity for the to develop a program that best serves their careers and on the course offerings of other universities. Credit for universities completed using this option will only be granted for uses for which a B or better grade is obtained. In completing IBA degree, for students enrolled in the regular program below) a minimum of six (6.0) credits must be completed at Mary's.

gram Features

Saint Mary's MBA provides an integrative foundation in segment principles as well as the opportunity for specialized in traditional functional areas of accounting, finance, human were management, marketing, or information technology, or ardisciplinary subjects such as global sustainable segment, international development, or entrepreneurship.

andation Year

week of September: team building and orientation.

Semester: analytical and managerial skill development;

502.1	Managerial Economics and Decision Analysis
506.1	Statistics for Managers

521.1 Managing Information and Technology

540.1 Financial Accounting
Marketing Management

586.1 Leadership and Behavioural Processes

mier Semester: external focus: global economy, hands-on

SC 515.2 Operations Management

501.2 Economics of the Enterprise Environment

548.2 Managerial Accounting
561.2 Business Finance
585.2 Organization Behavior
Business Research Methods

(second week of formal examinations in April): integrative competition

mer: (optional)

mship (for Canadian and Permanent Residents only), or

exchange/study, or

Entive courses

Executive Speaker Series

lughout the first and second year of study, students are sted to participate in the Executive Speaker Series. National regional leaders from the public and private enterprises will be students on current management issues.

menced Study Year

bbjectives of the second year are to foster further integration thational studies, to develop research skills, and to provide apportunity for specialized study in a functional or disciplinary field of management.

econd year consists of a minimum of five (5.0) credits.

MBA 601.1(.2) Integrative Management Exercise

MGT 689.1(.2) Strategic Management

MBA 698.1(.2) Management Consulting Project (MCP) or XXX 699.0 Management Research Project (MRP)

This full credit course can be taken in one of the following subject areas: ACC, ECO, FIN, MGT, MKT, or MSC.

In addition, six or seven (3.0-3.5 credits) 600-level elective half courses, (depending upon whether the student opts for the Management Research or Management Consulting Project), are selected to support generalist or specialist study in a functional or interdisciplinary area of management.

Students are permitted to register in an area of concentration or pursue a program of general studies. A concentration consists of a minimum of two (2.0) credits of approved courses in one of the areas listed below:

- Accounting
- 2. Finance
- 3. Human Resource Management
- Marketing
- 5. Global Sustainable Development
- 6. International Business
- 7. Information Systems
- 8. 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.

Note: Second year students are expected to participate in the Executive Speaker Series. Career planning and development workshops are offered to graduating students.

Exemptions

Students with significant academic preparation in functional business subjects may be eligible for exemption from selected foundation year courses. Candidates should contact the MBA Program Manager for details.

Doctor of Philosophy in Business Administration (Management)

Director K. Kelloway

The primary objective of this doctoral program is to develop successful researchers for academe, the public sector, and private industry. Research success requires an understanding of context, in addition to discipline-based and research expertise. Entering students are expected to be familiar with accounting, finance, marketing and management prior to commencing the program. What is lacking from the typical MBA is an understanding of the research paradigms. Most doctoral graduates aspire to academic careers. For this reason, it is important that students are introduced to teaching pedagogy. Since students will come from varied backgrounds and it is desirable to tailor the program to the students and the research program, curriculum requirements must allow for this.

This program has primary focus on human resource management and organizational behavior. Programs specializing in areas such as accounting, finance, marketing, international business, and information management, may be offered in the future.

Each student's program consists of six components:

1. Foundation Courses:

four compulsory half-credit (2.0) courses in management thought and research paradigms:

- a. Management Thought and the Management Environment
- b. The Nature of Management Research
- c. Qualitative Research Methods
- d. Quantitative Research Methods

2. Functional Courses:

a minimum of four half-credits (2.0) doctoral courses in management, selected and/or designed jointly by the student and the student's Ph.D. supervisory committee. Depending upon the student's background and research focus, the committee may require additional courses.

3. Comprehensives:

Two comprehensive examinations that verify that the student possesses:

- a. the depth of knowledge in management necessary to support original research; and
- b. mastery of the research methodology and technical skills necessary to support the chosen topic.

These comprehensives will take the form of a set of written examinations, set by the Ph.D. Supervisory Committee, followed by an oral examination before the Committee within six months. This will be followed within six months with the presentation and defense of a research proposal. 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".

- Participation in regular graduate seminars presented by faculty and students on both current research topics and research methodologies.
- 5. Participation in a teaching workshop and supervised teaching, or equivalent demonstration of effective communication, motivation, and assessment skills.

6. Thesis:

An original doctoral thesis worthy of publication in reputable academic journals, defended orally before authorities in the discipline, appointed by the Office of Graduate Studies and Research. The oral defense will be public.

Admission Requirements

Decisions regarding admission to the doctoral program will be made on the basis of the applicant's academic qualifications and achievements, as well as the fit with the program's areas of specialization and available faculty. Students entering the doctoral program must have a Master's degree from a recognized university and some minimal breadth in business studies. Suitable qualifications include: (i) an undergraduate degree in any area of study, plus an MBA degree; or (ii) an undergraduate commerce degree plus a Master's degree in any area.

Students with a Master's degree, but without previous degrees in management education [i.e., without a Bachelor of Commerce or an MBA (or equivalent), or a business professional designation] are also invited to apply. These may be admitted as "qualifying" students. The program will provide such students with a basic knowledge of business administration and allow them to pursue their research interests in an area related to business, economics, management and/or administration. They will normally take the equivalent of one-half of the first year of the MBA program in addition to the normal requirements of the Ph.D. program.

All applicants are required to submit three letters of

recommendation from persons capable of assessing the candidate's academic ability and research potential; a state of career objectives; scores from the Graduate Management Admission Test (GMAT) or Graduate Record Examination (Gland official transcripts from all universities attended (sent distributed to submit official scores on the CanTest of English are required to submit official scores on the CanTest of English as a Foreign Language (TOEFL), or recognize equivalent test of written and oral English language proficien

Normal minimum requirements for admission are a grade/quipoint average of 3.6 on a 4.0 scale (high B+ to A-), GMAT at 600, and TOEFL above 217 on the new 300 scale or 550 on previous scale. These would be the normal minimum requirements, but each case would be evaluated on its own merits.

The Admissions Committee will short-list candidates based the submitted documentation. Faculty approved to supervise review the short-listed candidates. No candidate will be administration the support of an advisor in the student's planned are specialization. This advisor may be the candidate's future the supervisor. Subject to funding, full-time students may obtain employment as the advisor's research assistant. For these reasons, admission will be limited by the availability of potent supervisors in the candidate's chosen area of specialization.

Recommended candidates will be assessed by the Office of Graduate Studies and Research and final recommendations made to the Admissions Office of the University.

For Management Specialization, it is presumed that entering students will have a background "equivalent" to the following course listings. These are from the Saint Mary's MBA Progrand are offered for illustrative purposes only.

MGT 683.1(.2) Management of Interpersonal Relations MGT 684.1(.2) Management of Organizational Design and

Development
MGT 685.1(.2) Strategic Human Resource Management
MGT 689.1(.2) Strategic Management

In addition, candidates should be competent in the statistical inference, including analysis of variance and categorical data analysis.

Required Courses

THE FOUNDATION COURSES

MGT 701.1(.2) Management Thought and the Management Environment

MGT 702.1(.2) The Nature of Management Research

MGT 703.1(.2) Qualitative Research Method

MGT 704.1(.2) Quantitative Research Method

THE FUNCTIONAL CORE

MGT 710.1(.2) Doctoral Seminar in Human Resource
Management

MGT 720.1(.2) Doctoral Seminar in Organizational Theory at Design

MGT 730.1(.2) Directed Readings in Management I

MGT 740.1(.2) Directed Readings in Management II

In addition, two special topics courses (MGT 7xx and 7yy) Winoffered each year.

THE THESIS

MGT 899 Thesis (externally assessed)

Special Requirements

1. Supervision - Advisor

At admission each student will be assigned a Ph.D. Advisor in

student in course selection and other aspects of the of the program. The Ph.D. Advisor agrees to take on with the understanding that there is a significant that the Ph.D. Advisor will be the student's Ph.D.

D. Advisor and the Ph.D. Supervisor need not be Saint Landty, but must be tenured faculty members at a post-day institution in Atlantic Canada. Such faculty must be landed by the Office of Graduate Studies as Adjunct lassors at Saint Mary's University.

Emprehensive Examinations

28 months of admittance to the program, students must plate a set of comprehensive examinations in research adology and the chosen area of specialization. The phensive examinations are designed to verify that the date has the academic preparation to pursue research in chosen area of specialization. The comprehensive mations will be set by the Ph.D. Supervisory Committee the supervision of the Office of Graduate Studies and match.

Supervision - Thesis Committee

The practical and well in advance of writing the prehensive Examinations, the Supervisor will be selected. In pervisor will be the student's principal guide for the inder of doctoral studies. In consultation with the Ph.D. Supervisory writtee of at least four members, at least one which must be and to Saint Mary's University. At least two members of this writtee must be tenured Saint Mary's faculty. The bership of the Committee must be approved by the Office of the Studies and Research. The Ph.D. Supervisory writtee will define the course requirements in the area of selization and will have considerable input to the prehensive Examinations.

Thesis Defense

lessor Emeritus

48 months of successfully completing the comprehensive mations, the candidate must successfully defend the thesis mations guidelines established by the Office of Graduate Studies Research. The thesis must be defended before a panel

consisting of the Ph.D. Supervisory Committee and a distinguished authority in the field from outside Atlantic Canada and the defence will be open to the public. The Director of Graduate Studies and Research will chair the panel and prepare the final report of the panel's decision.

5. Method of Delivery

An essential feature of the proposed program is accessibility and residency flexibility. Although it is envisioned that most students will opt to remain at Saint Mary's on a full-time basis, residency must be flexible to make the program accessible to non-traditional doctoral students. Students will be required to fulfil the equivalent of two semesters of full time residency. Normally, these semesters will be in the summer and are composed of intensive classes in the months of June and August, with July devoted to the writing of major papers.

Although it is possible that a course may be taught over a continuous four week period, the preferred format is two weeks of face to face interaction, a six week break for the writing of a major paper, followed by a second two week period of face to face interaction.

For entering students, MGT 701 will be offered each year in the first two weeks of June and concluding in the first two weeks of August. Similarly, MGT 702 would be offered in the last two weeks of June and conclude in the last two weeks of August. This would leave all of the month of July for the writing of major papers for each course. MGT 703, MGT 704, MGT 710 and MGT 720 would each be offered in alternating years, following the same format. Two additional special topics courses (MGT 7xx and 7yy) will be offered each year. At least one of these special topics courses will be taught by an invited visiting faculty member and would be open to any full time business school academic in Atlantic Canada. The intent is to invite a noted authority from Canada, the US or Europe that could expose faculty from across the region to leading-edge research in a manner that conference presentations cannot achieve.

The directed readings course can be completed through distance education during the academic year for students enrolled on a part-time basis.

Within 28 months from admission to comprehensives, students have three summers in which to complete the residency requirements.

aculty of Science - Graduate Programs

Estronomy and Applied Psychology.

laster of Science in stronomy

person, Professor G. Mitchell, D. Turner ssor watory Director, G. Welsh ciate Professor ergraduate Coordinator, ociate Professor M. Butler, duate Coordinator; Associate Professor G. Guenther ociate Professors D. Clarke, M. West stant Professors A. Sarty, F. Marleau A. Coley, and Professors

D. Forbes, T. Harriott, M. Jain W. Lonc

many years. In 1974 Saint Mary's became the first and only lersity in Atlatic Canada to offer a program of instruction in

Astronomy, a distinction it still holds. Two years earlier a 40-cm reflecting telescope had been installed in an observatory atop the newly-completed Loyola high-rise residence complex on campus, and was opened for a regular weekly program of observing tours of the heavens. Named in honor of Michael W. Burke-Gaffney, S.J., the very enthusiastic and respected astronomer, engineer and educator who had popularized astronomy at Saint Mary's over the previous three decades, the Burke-Gaffney Observatory has played an important role in widening the public appreciation of the universe and our place in it. During the academic year the Observatory is also used heavily by undergraduate and graduate students, supporting projects which range from sketching surface features of the Moon and planets to imaging stellar spectra and solar prominences.

Formal introductory Astronomy courses have been offered at Saint Mary's since 1957. Prior to 1971 these were taught by Father Burke-Gaffney. Between 1971 and 1974 three astronomers joined the Faculty in response to the University's decision to build on the tradition established by him. With the founding of the Astronomy Department in 1974, Saint Mary's launched its first graduate program in the sciences, a two-year program leading to the Master of Science degree. Increasing student interest over the years stimulated a gradual expansion of undergraduate offerings, culminating in 1989 with the Astrophysics major program offered in cooperation with the Department of Physics. In 1993 the Astronomy and Physics Departments at Saint Mary's united into one Department, and a

new program of study was created to provide students with a strong undergraduate expenence in astronomy and physics and a more comprehensive graduate education in astronomy and astrophysics.

Research and Facilities

The complement of the Department includes a balanced mix of observational/experimental and theoretical interests. Observational and experimental research includes interstellar chemistry and gas outflows from young stellar objects, the study of open clusters and associations of various ages, the evolution of massive stars and pulsating variables, globular clusters, the cluster distance scale. interstellar reddening in the galactic disk, the origin and structure of early-type galaxies, radio interferometric observations of extragalactic radio sources and their environs, and large-scale structure of the universe. Theoretical research includes particle physics and the solar neutrino problem, the modelling of stellar pulsation modes, magnetohydrodynamical modelling of the interstellar medium, the study of supernova remnants and extragalactic radio sources, and the propagation of cosmic rays and their associated emissions. Observational research utilizes change-coupled device (CCD) imaging and spectroscopy obtained from various sites, the Sudbury Neutrino Observatory, the Very Large Array radio interferometer in the U.S., and the James Clerk Maxwell and other mm - wave radio telescopes. Theoretical research makes use of a powerful internal computer network recently funded by the Canadian Foundation for Innovation as well as Cray-class supercomputers accessed remotely from internal workstations. Graduate student projects are normally initiated on the basis of student research interests and the identification of an appropriate faculty supervisor.

The Burke-Gaffney Observatory, situated on the roof of the 23-story Loyola academic/residence building on campus, houses a computer-controlled 40-cm reflecting telescope equipped for direct imagery and spectroscopy with CCD cameras. The 40-cm reflector is the largest professional telescope in Atlantic Canada and is used for public tours, undergraduate and graduate training in observational astronomy, and less frequently for astronomical research. Faculty members and graduate students normally make use of other observatory sites around the world to obtain the scientific data used for their research, with the facilities at Saint Mary's being used to analyze the observational material gathered in this manner.

The Patrick Power Library on campus and the city-wide NOVANET system provide students and faculty with access to extensive library collections of books and journals in physics and astronomy. These resources are supplemented by faculty subscriptions to additional key ioumals, and a variety of electronic preprint services. The Saint Mary's community has high-speed Internet access (Web home page http://www.stmarys.ca) and connections from students and faculty offices to central DEC-alpha servers. The Department operates its own computing network (http://apwww.stmarys.ca) based on a multiprocessor Sun SPARC server, with a number of UNIX - and WINDOWS NT-based workstations for students and faculty. Peripherals include a large format high-resolution scanner, several color and b/w laser printers, and a growing electronic library of catalogs and sky surveys. Available data reduction and analysis software includes IRAF, VISTA, SPECX, CLASS, AIPS, SUPERMONGO, and IDL.

Admission Requirements

Full-Time Students

Graduate students in Astronomy come from diverse university backgrounds. Some have previously had no exposure to Astronomy at the undergraduate level, although such exposure is clearly desirable. Admission to the two-year Master of Science program at Saint Mary's normally requires an honors degree in astronomy, mathematics, physics, or the equivalent, with a minimum graduating average of B. Students who have not completed such a program, or who have weak backgrounds in mathematics or physics, may be admitted into a qualifying year in which they take additional courses in these areas prior to attempting graduate courses in astronomy. Prospective students who are in doubt about their qualifications should write to the Chairperson of the Department, enclosing an up-to-date transcript with their inquiry. Applications for the graduate program received by May 1 will be given the highest priority.

Part-Time Students

Under special circumstances, students may enrol in the program on a part-time basis. In addition, full-time students may change their status to part-time should circumstances warrant the change. While entrance requirements are the same for all students regardless of their registration (i.e., full- or part-time), part-time students are not normally eligible to receive financial assistance from the department.

Degree Requirements

The Master of Science program is normally of two years duration and involves course work, seminars, an oral comprehensive examination, and an original thesis on an astronomical topic. If desired, course work may be concentrated in the first two or three semesters so that students may work almost exclusively on their thesis during the summers and the final one or two semesters.

Full-time students must complete at least three (3.0) credits per year, for a total of six (6.0) credits over two years. Of these six (6.0) credits, students must take AST 695.1 (.2) (Graduate Seminar II), AST 696.1 (.2) (Graduate Seminar II), AST 697.0 (Research Project in Astronomy), AST 698.0 (Thesis), and three (3.0) additional credits drawn from the AST half courses number 430 or greater or from the upper-year courses offered in Physical Mathematics, or Chemistry (where recommended by the student supervisor). Normally, AST 695.1 (.2) is taken in the first year and AST 696.1 (.2) in the second year. AST 697.0 may be taken in either the first or second year, while AST 698.0 is taken when the student has passed the oral comprehensive examination. To be eligible for graduation, students must achieve an overall grade of at least B (qpa = 3.00) on courses taken for credit. In all cases, the student's program must be approved by the Department.

Students must also pass an oral examination in which they are expected to demonstrate comprehensive knowledge of basic areas in Astronomy, including first-year undergraduate Physics. The examination is normally taken at the end of the first year of study. Students must also prepare and defend an original thesis on a topic selected by the student and the student's supervisor. The thesis shall be examined by a committee of no fewer than three faculty from Saint Mary's University plus, when available, one member external to the University and competent in the subject area of the thesis. The student will be examined on the thesis by the committee in a formal oral thesis defence normally scheduled near the end of the second year of study.

Full-time students are normally accepted into the program with provisions for support from various sources, including graduate scholarships, University teaching assistantships, and research assistantships drawn from faculty grants. The normal level of support is usually sufficient to cover living expenses and tuition fone person.

Graduate Scholarships for Students in Astronomy

Qualified students are eligible for a variety of graduate awards, including NSERC postgraduate scholarships and Saint Mary's University graduate scholarships. Certain named graduate awards are restricted to full-time students in the Astronomy Master of Science program. These include the Father Burke-Gaffney Memorial Scholarship, which was established by the Saint Mary's University Alumni Association in memory of Father Michael Walter Burke-Gaffney, S.J., one of the original group of who came to the University in 1940, and the John Despard del Scholarship, which was established by Marcia Watts deBlois in memory of her late husband, a former professional photographs employed by the National Research Council of Canada who had long-time interest in Astronomy. Graduate students in Astronomy also eligible for the Reuben and Helen Hornstein Bursary, whi was established by Mr. and Mrs. Reuben Hornstein in 1982. Re. Homstein, a former meteorologist for a local television station, is honorary degree recipient of Saint Mary's University.

Graduate Courses

The following constitute the offerings in this graduate program. Detailed descriptions are found in Section 5 of this Calendar.

AST 435.1(.2) Data Analysis in Astronomy

- 1(2) Solar System Astronomy
- (.2) Galactic Astronomy
- **1(.2)** The Interstellar Medium
- 1(.2) Binary and Variable Stars
- 1(.2) Selected Topics in Astronomy and Astrophysics
- 1(.2) Galaxies Beyond the Milky Way
- 1(.2) Directed Readings in Current Literature
- 1(.2) Stellar Astrophysics I
- 515.1(.2) Stellar Astrophysics II
- 1(.2) Astronomical Instruments and Techniques
- 9.1(.2) Cosmology
- 1(.2) Clusters of Galaxies
- 695.1(.2) Graduate Seminar I
- 696.1(.2) Graduate Seminar II
- E#97.0
 - Research Project in Astronomy

laster of Science in Applied sychology

Professor

te Professors ant Professors

Professors sor Emeritus V. Catano

D. Bruce, J. Darley, K. Hill,

R. Konopasky, I. Lenzer

P. Street, B. Vulcano

J. Cameron, A. Day,

S. Smith, V. Stinson

L. Methot, S. Newsome

J. Chadwick-Jones

Department of Psychology offers a Master of Science in Applied alogy in two fields: Clinical and Industrial/Organizational logy. Students are admitted with either full-time or part-time Full-time status students will need at least two years to the all degree requirements, and must finish these within three whereas part-time status students must complete all bements within five years. Normally, part-time students are mently employed in an occupation related to Applied Psychology. ents completing Master of Science degree requirements in this are eligible to apply for registration as a psychologist in Nova and may pursue careers in public organizations, independent ice or consulting. They may also continue their graduate mion in a Ph.D, program. Further information can be obtained the Graduate Program Coordinator.

mical program is designed on the scientist-practitioner model ms to educate students in the assessment and treatment of a of psychological problems ranging from normal developmental to severe and chronic forms of distress. Students will acquire a etical and practical understanding of applied research. The chology Department at Saint Mary's is a member of the Colive Ph.D. program in Clinical Psychology at Dalhousie sity and students may take graduate courses in this gram with permission of both Departments.

Admission to this Clinical Program has been ended. Please contact the Graduate Program dinator or the Chairperson of the Department for further nation.

Estrial/Organizational Psychology

program in Industrial/Organizational Psychology prepares ents to examine and understand the behaviour of individuals groups in organized environments. Since mal/Organizational psychologists may perform a variety of in Industry, business and the public service, students in the gram are expected to have a solid understanding of tative and research methods, acquire skills which will help in the training and selection of personnel, the design of jobs, places and habitats, and the development of social skills and Hearn structures. Students in this program may also be itted access to courses and supervisors in the MBA program **Baint Mary's.**

ssion Requirements

ission to the program requires an honors degree in

Psychology or its equivalent (the equivalent of ten (10.0) credits in Psychology including an independent research project). Admission materials are available from the Director of Admissions, Saint Mary's University. A completed application form, official transcript(s), letters of reference, and Graduate Record Exam scores (verbal, quantitative, analytical, and psychology) must be forwarded to the Director of Admissions no later than February 1st. Within recent years the minimum quality point average (hereafter gpa) of successful applicants has been 3.25. Consideration will also be given to relevant work and volunteer experience. First year students who wish to change their admission status (full-time or part-time) after they have received notice of their acceptance must make this request to the Chairperson before July 1st. Change in status is not guaranteed and must be approved by the Department.

Program Requirements

Students are required to take the equivalent of four (4.0) credits. in addition to completing a supervised 500-hour practicum (PSY 690.0) and preparing a thesis (PSY 695.0). The following first year courses are required for all students: PSY 601.0 (Advanced Psychological Statistics) and PSY 603.1(.2) (Advanced Assessment). Graduate students in the Industrial/Organizational Psychology program are also required to take PSY 605.1(.2) (Personnel Psychology) and PSY 625.1(.2) (Organizational Psychology) in their first year. Graduate students in the Clinical program must take one of the following: PSY 604.1(.2) (Clinical Assessment) or PSY 606.1(.2) (Neuropsychological Assessment).

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 [three (3.0) credits]. Notwithstanding students' quality 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 their Thesis Committee, which shall consist of the student's advisor, one other member of the Department, and one person from outside the Department, recommended 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-(3.0) credits by a part-time student. Each thesis must be approved by the student's Thesis Committee, after which it will be presented orally to the Department and interested scholars from the community.

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 qpa, GRE scores, research experience, and letters of reference. Graduate 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 Calendar.

601.0 Advanced Psychological Statistics and Research Design

603.1(.2) Advanced Assessment

604.1(.2) Clinical Assessment

605.1(.2) Personnel Psychology

606.1(.2) Neuropsychological Assessment

610.1(.2) Applied Multivariate Analysis

615.1(.2) Social Skills and Mental Health

620.1(.2) Topics in Engineering Psychology

625.1(.2) Organizational Psychology

640.1(.2) Field Research Methods

650.1(.2) Community Psychology

655.1(.2) Counselling and Psychotherapy

660.1(.2) Behaviour Therapies

670.1(.2) Special Seminar: Topics

680.1(.2) Psychological Disorders

Practicum and Directed Readings 690.0

695.0

Faculty of Education - Graduate Programs

Acting Dean

Michael J. Larsen

Saint Mary's University Faculty of Education is not admitting students to either of its Master of Arts (Education) or Master of Education programs. Students who are currently pursuing their studies will continue to follow the rules and regulations delineated

in the Academic Calendar in existence when they began their in addition, the Acting Dean of Education, Dr. Michael J. Larse available for consultation as required.

Master's Level Education courses are provided for students int in Teaching English as a Second or Foreign Language. These described in Section 5 of this Academic Calendar.



Science Students hard at work in one of the University's Chemistry labs.



Dr. Robert J. Konopasky, Professor of Physchology, using state-of-the-art equipment in his lecture.

Continuing Education

Section

4

THE PERSON NAMED IN

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 in extension centres, information technology programs, and professional development programs. As well, in cooperation with the Frank H. Sobey Faculty of Commerce 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 Arayle Street.

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, 902-420-5492. For details of the mature and nondegree 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. A brochure detailing all of the summer session course offerings is published each year in early March.

Saint Mary's at the World Trade Centre

Our downtown office at the World Trade Centre draws upon the academic resources of the University to deliver programs and courses for the benefit of the workplace, the business sector, and the local economy. Through its initiative at the World Trade Centre, Saint Mary's University recognizes its commitment to developing innovative managerial practices that promote business success. Recognizing that learning is lifelong, Saint Mary's University at the World Trade Centre offers a variety of courses for career and professional development. In partnership with the Division of Executive Development, York University, Saint Mary's offers advanced management seminars to the business community of Atlantic Canada. More extensive programs for managers are the Certificate in Business Communications, the Certificate in Financial Management, and the Certificate in Leadership Development.

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: Sackville, Dartmouth downtown Halifax. Several credit courses are now available of the internet using the world wide web. These courses allow a time and mature learners to begin or continue their university studies without having to leave their community or place of w For information on courses being offered during the academi year and the summer sessions contact the Division of Contin Education.

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 Management and Psychology option.

These Certificate programs are beneficial to both individuals currently working in the human resources departments and the 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 (3.5 credits) and eleccourses (4.5) for a total of eight (8.0) credits (in which case the designator is HRM) or the compulsory management and psychology courses (4.0 credits) and elective courses (4.0) (delineated in two categories -Psychology and Business, as found in Section 5 of this Calendar, Department of Psychological for a total of eight (8.0) credits (in which case the designator HRP). It is possible to complete the certificate program alon with the Bachelor of Commerce, Bachelor of Arts, or Bachelo Science degree programs. It is also possible to receive the Certificate in Human Resource Management by itself.

Compulsory Core Courses - Management Option (3.5 credits)

Introduction to Business Management

MGT	383.1(.2)	Organizational Behavior I
MGT	384.1(.2)	Organizational Behavior II
MGT	385.1(.2)	Human Resource Management
MGT	386.1(.2)	Industrial Relations
MGT	485.1(.2)	Wage & Salary Administration
MGT	486.1(.2)	Personnel Staffing, Training and

MGT 281.1(.2)

Development

MGT 499.1(.2)

MSC 225.1(.2)

PSY 309.1(.2)

PSY 327.1(.2)

Elective Courses	- Management Option (4.5 credits)
ACC 241.1(.2)	Introductory Accounting - Part I
ACC 242.1(.2)	Introductory Accounting - Part II
CML 201.1(.2)	Legal Aspects of Business - Part I
COM 293.1(.2)	Managerial Communications
COM 394.1(.2)	Oral Communications and Presentation
	Techniques
COM 475.1(.2)	Advanced Managerial Communications
ECO 201.1(.2)	Principles of Economics (Micro)
ECO 202.1(.2)	Principles of Economics (Macro)
ECO 339.1(.2)	Labor Economics
ECO 340.1(.2)	Human Resource Economics
MGT 388.1(.2)	Business and Society
MGT 391.1(.2)	Women in Management
MGT 392.1(.2)	Occupational Health and Safety
MGT 481.1(.2)	Organization Theory: Structure Process
	Analysis & Design
MGT 483.1(.2)	Interpersonal Behavior I
MGT 484.1(.2)	Interpersonal Behavior II
MGT 488.1(.2)	International Business Management
MGT 493.1(.2)	Business-Government Relations in Cana
MGT 496.1(.2)	Collective Bargaining
MGT 497.1(.2)	Issues in Industrial Relations

Senior Management Perspectives

Industrial/Organizational Psychology

Introduction to Computers

Human Factors

399.1(.2)	Special Topics in Psychology
417.1(.2)	Interpersonal Relationships
425.1(.2)	Psychology of Organizational Development
125.1(.2)	Personnel Training & Development
427.1(.2)	Organizational Psychology
428.1(.2)	Personnel Psychology
441.1(.2)	Psychological Tests
445 1(.2)	Seminar in Psychology

metsory Core Courses - Management & Psychology on (4.0 credits)

7281.1(.2)	Introduction to Business Management
327.1(.2)	Industrial/Organizational Psychology
385.1(.2)	Human Resource Management
386.1(.2)	Industrial Relations
426.1(.2)	Training and Development
427.1(.2)	Organizational Psychology
428.1(.2)	Personnel Psychology
485.1(.2)	Wage & Salary Administration

Two Courses – Management and Psychology Option (4.0 is: 2.0 from Psychology Electives and 2.0 from issess Electives)

chology Electives (2.0 credits)

309.1(.2)	Human Factors
399.1(.2)	Special Topics in Psychology
417.1(.2)	Interpersonal Relationships
425.1(.2)	Psychology of Organizational Development
432.1(.2)	Attitudes and Persuasion
441.1(.2)	Psychological Measurement
445.1(.2)	Directed Research in Psychology
446.1(.2)	Seminar in Psychology HRM Topics

Course must be directly related to the field of Human wurce Management.

siness	Electives	(2 0 c	redits)
3	FIGCELA 62	14.0	a guita)

BESS CIRCLIAG	s (z.v credits)
241.1(.2)	Introductory Accounting - Part I
242.1(.2)	Introductory Accounting - Part II
201.1(.2)	Legal Aspects of Business - Part I
293.1(.2)	Managerial Communications
394.1(.2)	Oral Communications and Presentation
	Techniques

	Techniques
475.1(.2)	Advanced Managerial Communications
201.1(.2)	Principles of Economics (Micro)

201.1(.2)	Timospico di Edonomico (misco)
202.1(.2)	Principles of Economics (Macro)
339.1(.2)	Labor Economics

340.1(.2)	Human Resource Economic
399 4/ 2)	Pusiness and Society

400 ()	Dubilities and business,
391.1(.2)	Women in Management
T 302 1/ 2)	Occupational Health and Sa

392.1(.2)	Occupational Health and Safety
T 481.1(.2)	Organization Theory: Structure Process
	Analysis & Design

	Alialysis a Design
T 484.1(.2)	Interpersonal Behavior II
T 488.1(.2)	International Business Management

400.1(.2)	ilitelliational publicas Managemen
T 493.1(.2)	Business-Government Relations

	III Callada
496.1(.2)	Collective Bargaining

497.1(.2)	Issues in Industrial Relations
499.1(.2)	Senior Management Perspective

225.1(.2) Introduction to Computers

indemic Requirements

Community courses also apply to students enrolled in this Certificate param.

quirements for Graduation

Inimum cumulative quality point average of at least 2.00 in human Resource Management Certificate Program courses equired for graduation with the certificate.

wanced Standing

ments with courses from previous post-secondary study will be messed 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 two credits (2.0) of the compulsory courses and two credits (2.0) 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.

Sales Certificate Program

In cooperation with the Canadian Professional Sales Association (CPSA), the Division of Continuing Education is offering CPSA Sales Institute courses and the national sales certification exam at Saint Mary's campus. 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 Skills for Sales Success and Sales Management.

Payroll Courses

In partnership with the Canadian Payroll Association, Saint Mary's University offers the Introduction to Payroll course. This is the first level of the Payroll Management Program. For more information, contact the Division of Continuing Education at 902-420-5492 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 Information Technology Solutions (ITS)

The ITS program is designed for workers and students who want to increase their computer technology expertize and problem-solving skills. In contrast to other programs that offer IT training for a career change, the ITS program is aimed at people who want to take charge of the computer technology around them to make their own work more efficient, and often more interesting. The program consists of a Foundations Course and eight "handson" course modules covering a broad range of topics including Operating Systems, Local Area Networks, Database Management, and Troubleshooting. The ITS program is a 14-week full-time program (with a part-time option) that begins each September, January, and May. Please call 902-420-5492 for further information.

Computer Training

The Division of Continuing Education offers an extensive program of computer courses for professionals, managers, office administrators, and other computer users. All courses feature "hands-on" instruction on computers using the "Windows" operating system. For a brochure describing current courses, times and prices contact the Division of Continuing Education, 902-420-5492.

Diploma in Marketing and International Business

This diploma program is designed for managers, professional, and individual business owners who have an in-depth practical knowledge of the principles and strategies of marketing and international business. Of the eight program modules, four focus on marketing and four on international business. For further information, please contact Saint Mary's at the World Trade Centre, 902-420-5638.

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 indepth assignments. For information please contact Saint Mary's at the World Trade Centre, 902-420-5638.

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

fourteen full day seminars over a six month period covering topics as finance, marketing, human resources, negotiation, leadership and strategic management. To help apply the concepts and techniques featured in the program, the programiculudes ten hours of individual coaching by course instructors.

University Preparatory Courses

The Division of Continuing Education offers an upgrading coin writing skills. Preparation and review courses are offered tooth the General Management Admissions Test (GMAT) and Law School Admissions Test (LSAT). For a descriptive cour brochure please contact the Division of Continuing Education 902-420-5492.

General Interest Courses

Each year a variety of general interest courses for personal development and enjoyment are offered. In past years, these courses have included ElderLeamers and Slide Photography For more information on current course offerings please continuing Education, 902-420-5492.

Information

Descriptive pamphlets, summer session brochures, and ever program schedules are available from the Division of Continul Education, Saint Mary's University, Halifax, Nova Scotia, B3H 3C3. Telephone 902-420-5492; Fax 902-420-5103.



Coach Roy Clements, Kathy Mullane, and Mickey Fox, Saint Mary's University Sport Hall of Fame Inductees. 14 October 2000.

Description Of Courses

This section includes all courses approved for offering by academic units. Some of the courses will not be offered in 2001-2002. Students are therefore advised to consult the academic timetable for those courses which will be taught in the 2001-2002 academic year and the time(s) and location(s) at which they will be offered. Courses are normally offered for three hours per week. Any variations to this are noted below the relevant course description. Students' attention is directed to the fact that those courses carrying double numbers, i.e., HIS 517.0 (617.0), will require additional work and a higher level of academic performance for students registering for the higher number. If students are unsure about the requirements, they should check with the faculty member offering the course. In some academic units, some courses are listed only with a number and title but no description. These are approved courses which are not being taught on a regular basis. Full course descriptions for these courses can be found in previous years' Academic Calendars on the web at http://www.stmarys.ca.

Section 5

Accounting (ACC)

Chairperson, Associate Professor

Professors

Associate Professors

Assistant Professors

T. Cheng, R. Chesley

D. Bateman. B. Gorman, P. Secord,

N. Young

W. Hamby

G. Ansong, J. Power,

X. Song K. Mader

F. Dougherty

Professor Emeritus

Adjunct Professor

The Department of Accounting offers a program for accounting majors which will prepare students for careers in professional accounting, industry, government and institutions. The Department also offers courses in financial and managerial accounting and information systems for all Commerce students.

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 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.

ACC 323.1(.2) Management Information Systems

ACC 333.1(.2) Cost Management: Measurement Systems

ACC 334.1(.2) Cost Management: Systems Evaluation

ACC 341.1(.2) Intermediate Financial Accounting

ACC 342.1(.2) Intermediate Financial Accounting

ACC 345.1(.2) Financial Accounting Theory

FIN 360.1(.2) Business Finance I FIN 361.1(.2) Business Finance II

One (1.0) credit free elective

ACC 455.1(.2) Financial Accounting Seminar, or ACC 470.1(.2) Management Accounting Seminar

One (1.0) Accounting elective - see note (i) below

MGT 489.1(.2) Strategic Management

Two (2.0) credits non-Commerce electives

One (1.0) credit free elective at 200-level or above (1.0) - see note (ii) below

Notes:

- MSC 324.1(.2), MSC 326.1(.2), or MSC 435.1(.2) as well as ACC 357.1(.2) or any 400 level course in Accounting except ACC 455.1(.2) and 470.1(.2) may be used to satisfy this requirement.
- CML 202.1(.2) is normally required by professional accounting associations in order to receive an exemption for commercial law.

Students with a grade of D in ACC 242.1(.2), ACC 341.1(.2) or ACC 342.1(.2) are advised against pursuing an accounting major.

241.1(.2) Introductory Accounting

Prerequisite: ECO 201.1(.2) or 202.1(.2); MGT 281.1(.2); or

appropriate work experience, determined in advance of registration by the Chairperson of the Department.

This course is concerned with a study of basic accounting concepts and principles, their application to business transaction and financial statements, and an introductory consideration of t balance sheet and income statement. This course is to be followed by Introductory Accounting - Part II.

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

242.1(.2) Introductory Accounting

Prerequisite: ACC 241.1(.2); ECO 201.1(.2); ECO 202.1(.2); or appropriate work experience, determined in advance of registration by the Chairperson of the Department.

This course deals with accounting for intercorporate investmen analysis of financial statements, the statement of changes in financial position, introduction to manufacturing accounting and managerial uses of accounting data.

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

323.1(.2) Management Information Systems Prerequisite: ACC 242.1(.2).

The study of computer-based data processing and information systems, management problems of computers in business sud as organization, control and feasibility.

332.1(.2) Planning and Control Prerequisite: ACC 242.1(.2) and MSC 225.1(.2).

This course covers both the concepts and techniques of planni and control. Topics may include financial decision making, activity management, performance measurement and analysis, cost allocation, and management control systems. A major foci is the enhancement of teamwork, analytical, and other decision making skills.

333.1(.2) Cost Management: Measurement Systems Prerequisite: ACC 242.1(.2); FIN 360.1(.2) and MSC 207.1(.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.

Notes: (i) Students cannot receive credit for both ACC 332.1(.2) and 333.1(.2).

(ii) Students may substitute ACC 333.1(.2) for ACC 332.1(.2) in the requirements for a major.

Classes 3 hours and labs 1 1/4 hours.

334.1(.2) Cost Management: Systems Evaluation Prerequisite: ACC 332.1(.2) or 333.1(.2) and 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).

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

341.1(.2) Intermediate Financial Accounting Prerequisite: ACC 242.1(.2) and MSC 225.1(.2).

This course, together with ACC 342.1(.2) provides a

thensive study of financial accounting and financial This course is to be followed by Intermediate Financial Part II.

Intermediate Financial Accounting ACC 341.1(.2).

because together with ACC 341.1(.2) provides a management of financial accounting and financial

3 hrs. and lab 1 hr. a week. 1 semester.

Financial Accounting Analysis

Financial Accounting Analysis

Financial Accounting Analysis

Accounting Analysis is focused on the form and content bancial information disclosed by organizations to external together with the development of skills needed to analyze together. The primary audience for this course is non majors in their third or fourth year.

Students cannot receive credit for this course if they have credit for ACC 341.1(.2) and 342.1(.2).

(2) Financial Accounting Theory

Special Control of the Control of

of objectives of financial accounting, major accounting see, evolution of financial accounting theory and practice, of contemporary accounting practice with emphasis on developments and issues. This course should be taken examently with ACC 342.1(.2) or after the completion of ACC (2).

International Accounting Equisite: ACC 242.1(.2).

Introduction to accounting in the international environment, aing on introductory financial (and to a lesser extent, legerial) accounting to provide the requisite background to lessand accounting issues facing multinational firms. Topics ladde: international accounting standards; foreign exchange, on currency transactions, and translation of financial lements; intercorporate investment, including consolidation of sudiaries, both foreign and domestic; inflation and current leaccounting; transfer pricing; as well as information systems audits.

1(.2) Accounting Information Systems and Control equisite: ACC 323.1(.2), 332.1(.2) and 341.1(.2); also MGT 1(.2).

boduced in ACC 323. Accounting transaction processing, the of accounting information systems (AIS), and their design construction are analyzed. Internal controls within AIS, bluation techniques, and techniques for developing, commenting, and monitoring the effectiveness of AIS are estigated.

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

11(.2) Small Business Accounting Information Systems requisite: ACC 323.1(.2).

scourse examines issues relating to the role, selection, sign, and implementation of commercially-developed counting information systems in small business. The course bovides students with an opportunity to gain practical experience utilizing a decision support system to assist in the software function process for a local small business. Students will also that to use at least one commercially-developed accounting butware package.

25.1(.2) Management Information Systems II Ferequisite: AGC 323.1(.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.

429.1(.2) Seminar in Management Information Systems Prerequisite: ACC 323.1(.2) and one of ACC 423.1(.2), ACC 425.1(.2), or MSC 425.1(.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.

443.1(.2) Advanced Financial Accounting - Corporate Accounting

Prerequisite: ACC 342.1(.2).

This course covers long term investments in equity securities, international operations, non-business and not-for-profit organizations, and fund accounting.

Classes 3 hrs. and lab 1 hr. a week. 1 semester.

444.1(.2) Advanced Financial Accounting - Special Topics Prerequisite: ACC 345.1(.2) and 443.1(.2).

This course includes extended consideration of topics in ACC 443.1(.2), fiduciary accounting, corporate liquidation, alternatives to historic cost, financial instruments, and government accounting.

445.1(.2) Financial Statement Analysis Prerequisite: FIN 361.1(.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.

449.1(.2) Management Control Systems
Prerequisite: ACC 332.1(.2); MGT 383.1(.2) and MGT 384.1(.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.

450.1(.2) Auditing Prerequisite: ACC 342.1(.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 material.

453.1(.2) Taxation - Part I Prerequisite: ACC 342.1(.2) or FIN 361.1(.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.

454.1(.2) Taxation - Part II

Prerequisite: ACC 453.1(.2) or permission of instructor.

This course examines in greater depth the topics covered in ACC 453.1(.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.

455.1(.2) Financial Accounting Seminar Prerequisite: ACC 342.1(.2) and 345.1(.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.

460.1(.2) Internal/Operational Auditing Prerequisite: ACC 332.1(.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.

470.1(.2) Management Accounting Seminar Prerequisite: ACC 334.1(.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 behavioral consequences of using the data.

475.1(.2) Business Consultancy

Prerequisite: ACC 332.1(.2), ACC 341.1(.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. One semester.

480.1(.2) Accounting and Small Business

Prerequisite: ACC 323.1(.2), ACC 332.1(.2), and FIN 360.1(.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.

490.1(.2) Selected Topics in Accounting

Prerequisite: ACC 332.1(.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 instructed and are subject to departmental approval.

492.1(.2) Directed Study

Prerequisite: permission of The 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 ments. 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.

540.1(.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 placed on providing the student with a fundamental knowledge of how to interpret and analyze financial statements and also will an appreciation of the limitations inherent in published financial information.

548.1(.2) Managerial Accounting Prerequisite: ACC 540.1(.2).

The primary objective of this course is to provide the student will 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.

624.1(.2) Small Business Accounting Information Systems Prerequisite: completion of all 500-level MBA 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 courservoides students with an opportunity to gain practical experiency 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.

626.1(.2) Management Information Systems: Strategy and Practice

Prerequisite: completion of all required 500-level MBA courses of permission of 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

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macronically, and handle continuous and discontinuous change. concept of information as a corporate resource which must **exectively planned, developed, managed and controlled is** mohasized.

1.1(.2) Financial Reporting and Statement Analysis Paguisite: completion of all required 500-level MBA courses or mission of MBA Director.

course examines financial statements from the perspective both preparers and users of financial information. mencing with analytical models of information production, course focuses on various mechanisms of information maction. Techniques such as ratio analysis, signal extraction, seasting are used to establish functional relations between the process and the economic position of a firm. sequently, the course provides a framework for using mounting information to evaluate a firm.

1(.2) Management Control Systems

Figrequisite: completion of all required 500-level MBA courses or mission of MBA Director.

signed to provide the student with an understanding of the mure of management control systems, this course places impoular emphasis on organizational structure and the control bocess. Various applications of the 'responsibility center' ncept are examined as well as planning, budgeting and informance appraisal. The emphasis is on the design of stems suitable to the organization and its objectives and es consideration of both profit-oriented and non-profit manizations.

(50.1(.2) Managerial Decision Analysis and Information prequisite: completion of all required 500-level MBA courses or mission of MBA Director, an accounting major undergraduate pree including a quantitative managerial accounting course, permission of Department.

This course will explore formal decision analysis to assess the poroach and the requirements it places on the information system. Focus will be on formal rational models of decision palysis under certainty and uncertainty including decision poport systems and computerized analysis.

852.1(.2) Integrative Managerial Accounting Perequisite: ACC 650.1(.2) and permission of the Chairperson the Department.

parent developments in managerial accounting and integrative poblem analysis will be emphasized in the course and modem mariagement thinking and analysis approaches will be included.

653.1(.2) Taxation

Perequisite: completion of all required 500-level MBA courses or mission of instructor.

An introductory study of federal corporate and personal taxation. with particular emphasis on the managenal decision making and vestment implications of taxation. The course will also introduce mudents to the basic federal sales tax system.

654.1(.2) Advanced Financial Accounting Theory Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director, an accounting major undergraduate magree including an accounting theory course, and permission of The Chairperson of the Department.

accounting theory involves conceptual, historical, and empirical evelopments. Exploration of these issues in light of recent evelopments will be made in this course. Included are meoretical issues surrounding advanced accounting topics such as not-for-profit organizations, foreign currency, business pombinations, non-going concerns, partnerships, and resource **adustries**.

656.1(.2) Integrative Financial Accounting

Prerequisite: ACC 654.1(.2) and permission of the 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.

657.1(.2) International Accounting

Prerequisite: ACC 540.1(.2) and 548.1(.2).

An introduction to accounting in the international environment and especially within multinational enterprise, which will involve indepth examination of international accounting issues. Topics will include: international accounting standards; foreign exchange, foreign currency transactions, and translation of financial statements; intercorporate investments; accounting for changing prices; transfer pricing; international aspects of taxation; culture and accounting; as well as accounting in developing countries.

658.1(.2) Computer Based Auditing

Prerequisite: completion of all required 500-level MBA 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.

660.1(.2) Integrative Public Auditing

Prerequisite: Completion of all required 500 level MBA courses or permission of the 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.

662.1(.2) Integrative Internal Auditing

Prerequisite: Completion of all required 500 level MBA 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.

664.1(.2) Advanced Taxation Legislation - Corporate and

Prerequisite: completion of all required 500-level MBA 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.

666.1(.2) Taxation and Financial Planning

Prerequisite: ACC 664.1(.2) and permission of the Chairperson of the Department.

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.

668.1(.2) Advanced Management Information Systems (MIS) Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director, an Accounting MIS course, and permission of Department.

This course analyzes advanced lopics 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.

680.1(.2) Environmental Accounting

Prerequisite: completion of all required 500-level MBA 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.

Classes and seminars 3 hrs. a week. 1 semester.

690.1(.2) Seminar in Accounting

Prerequisite: completion of all required 500-level MBA courses permission of MBA Director and instructor.

The course deals with selected topics in the accounting area. I topics to be covered will vary depending on the interests of the students and instructor.

692.1(.2) Directed Study

Prerequisite: completion of all required 500-level MBA 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 student a particular subject in detail and requires from the student som measure of independence and initiative.

699.0 Research Project

Corequisite: MBA 697.1(.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.

Anthropology (ANT)

Chairperson, Professor Professors

Associate Professor Assistant Professor Adjunct Professors S. Davis

P. Erickson.

H. McGee

M. Daveluy

S. Walter

J. Dayle,

M. Zelenietz

Departmental Policy

To obtain a minor in Anthropology, students are required to have completed at least four (4.0) credits. One (1.0) credit must be selected from among ANT 202.1(.2), 271.1(.2), 280.1(.2), or 290.1(.2). Two of the remaining credits must be from courses at the 300 level or above.

- 2. To obtain a major concentration, a student is required to have completed at least six (6.0) credits in anthropology. These must include ANT 202.1(.2), 271.1(.2), 280.1 (.2), and 290.1(.2). The remaining credits must be at the 300 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.
- 3. To obtain an honors concentration 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 ten (10.0) credits in anthropology including the following obligatory core: ANT 202.1(.2), 271.1(.2), 280.1(.2), 290.1(.2), 381.1(.2), 382.1(.2), 391.1(.2), 392.1(.2), 501.1(.2), and 502.1(.2); one (1.0) credit from among upper-level archaeology courses; one (1.0) credit from among upper-level socio-cultural courses; one half (0.5) credit from either ANT 451.1(.2) or 452.1(.2); and one half (0.5) additional credit from among ANT 411.1(.2), 412.1(.2), 413.1(.2), 462.1(.2), 463.1(.2), 466.1(.2) and 491.1(.2). To graduate from the program, students must also receive minimum grades of B (3.0) in ANT 501.1(.2) and 502.1(.2).

4. 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 ment. 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.

202.1(.2) Introduction to Ethnology and Social Anthropological 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 a will the expressive aspects of culture such as the arts, myth, and ritual

271.1(.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.

280.1(.2) Introduction to Biological Anthropology

A survey of human biological evolution. The principal topics an evolutionary theory, human genetics, the nature of race, living primates, and the fossil record of humanity.

290.1(.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 behavioral linguistic diversity. The emergence of ethnolinguistics as a subdiscipline of anthropology is also discussed.

301.1(.2) Nature of Culture

302.1(.2) Social Organization

Prerequisite: ANT 202.1(.2) or SOC 210.1(.2).

course introduces the student to the basics of social course and anti-structure. Emphasis is placed upon the course of kinship, politics, economics, beliefs, and the arts anderstanding of human socio-cultural life.

Women: A Cultural Perspective

1(.2) Egalitarian Societies Esquisite: ANT 202.1(.2).

course provides a survey of selected egalitarian societies bring foragers, horticulturalists, and pastoralists located in a. North and South America, Asia and Oceania. A number feoretical issues are raised related to the cultural variations similarities noted.

Chiefdoms
Sequisite: ANT 202.1(.2).

egalitarian societies (societies emphasizing inherited rank)

Europe d in this course. Consideration is given to

Hanations of cultural diversity and to theories of socio-cultural station.

1(.2) Foraging Adaptations equisite: ANT 202.1(.2).

unans have spent more of the past as foragers than they have being other subsistence strategies, and foraging has beported a wide range of cultural traditions. This course buildes a survey of selected foraging societies that have been becribed by ethnologists. Both egalitarian and non-egalitarian pagers are discussed, and examples are drawn from a wide large of environments and regions. Consideration is given to bories aimed at accounting for recurring cultural patterns as as the diversity exhibited by foragers.

387.1(.2) Applied Anthropology

188.1(.2) Anthropology and Development

399.1(.2) Peasant Society and Culture Ferequisite: ANT 202.1(.2).

rumber of substantive studies of peasant society and culture recamined. Examples are drawn from diverse regions reduding Mexico, India, China, Japan, Europe, and Southeast Theories relating to similar and contrasting features of peasant cultures are considered.

\$11.1(.2) Ethnology: Melanesia

312.1(.2) Ethnology: Polynesia and Micronesia

316.1(.2) Native Peoples of Canada Perequisite: ANT 202.1(.2) or one (1.0) credit in HIS or a social

bience.

This course provides a survey of the varied Native cultures of

course provides a survey of the varied Native Collides of Canada. Some of the socio-cultural changes associated with contacts between indigenous peoples and Europeans are considered. Variation in roles assumed by men and women are also discussed.

317.1(.2) Native Peoples of the United States and Mexico

323.1(.2) Traditional Culture of Micmac and Maliseet Peoples Prerequisite: ANT 202.1(.2).

An examination of the "traditional" culture of the Micmac and Maliseet peoples with emphasis upon the relationship between mythology and social organization.

324.1(.2) Contemporary Culture of Micmac and Maliseet Peoples

326.1(.2) Ethnology: East Asia

Prerequisite: ANT 202.1(.2) or ASN 300.1(.2).

A survey of the peoples of East Asia. Special attention is given to the socio-cultural integration of community and the state.

327.1(.2) Ethnology: Japan

Prerequisite: ANT 202.1(.2) or ASN 300.1(.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.

329.1(.2) The Arctic Culture Area

333.1(.2) The Anthropology of Law

336.1(.2) Foundations of Psychological Anthropology

337.1(.2) The Individual and Culture in Psychological Anthropology

338.1(.2) Medicine as Culture

339.1(.2) Medicine in Culture

341.1(.2) Cross-listed as IRS 340.1(.2) and REL 367.1(.2) The Early Christian Church in Britain and Ireland

342.1(.2) Folklore and Anthropology: An Introduction

351.1(.2), 352.1(.2), 353.1(.2), 354.1(.2) Directed Independent Study in Anthropology Prerequisite: at least two (2.0) credits in ANT.

Directed independent study on a reading or research program agreed to by the student and the instructor. The student must obtain the instructor's and chairperson's written approval of the proposed study plan prior to registering for the course. A student is limited to two (2.0) credits of Directed Independent Study in Anthropology in fulfilling departmental requirements for a major or honours degree.

365.1(.2) Myth: Anthropological Approaches [REL 365.1(.2)/465.1(.2)]

Prerequisite: ANT 202.1(.2), ANT 290.1(.2), REL 201.0 or REL 202.0.

The student is exposed to a number of theoretical approaches employed by anthropologists in the study of myth. While examples may come from a number of societies, there is a concentration on the myth corpus of a single society.

366.1(.2) Worldview: Anthropological Approaches [REL 366.1(.2)/466.1(.2)]

371.1(.2) Prehistory of Canada Prerequisite: ANT 271.1(.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.

372.1(,2) Prehistory of the United States

373.1(.2) Fieldwork in Archaeology

374.1(.2) Archaeology Laboratory

375.1(.2) World Prehistory

Prerequisite: ANT 271.1(.2) or one (1.0) credit in a social science.

This course investigates the earliest known tools and their associated activities. The development of technology is traced

from the early stone age through the iron age in a world-wide setting.

379.1(.2) Cross-listed as IRS 379.1(.2) and GPY 379.1(.2) Irish Material Culture

381.1(.2) Advanced Biological Anthropology 1 Prerequisite: ANT 280.1(.2).

A sophisticated examination of human biological evolution. The principal topics are evolutionary theory, human genetics, the nature of race, human growth, and non-human primates.

Students have an opportunity to do considerable laboratory work.

382.1(.2) Advanced Biological Anthropology 2 Prerequisite: ANT 381.1(.2).

A sophisticated examination of human biological evolution. The principal topics are human skeletal analysis and the fossil record of humanity. Students have an opportunity to do considerable laboratory work.

391.1(.2) Linguistic Anthropology [LIN 391.1(.2)]

Prerequisite: ANT 290.1(.2) or one half (0.5) credit in LIN.

The study of the relationships between linguistics and anthropology through the understanding of the nature of language. Concepts and methods used by anthropologists to analyse linguistic data. Training in the manipulation of linguistic tools in the analysis of languages other than English.

392.1(.2) Language, Culture and Society [LIN 392.1(.2)]

Prerequisite: one half credit (0.5) in either ANT or LIN.

Survey of different approaches and concepts in linguistic anthropology (ethnoscience, ethnosemantics, ethnolinguistics). Exposure to main topics of interest in the field (the relationships between language, culture and thought, for example). Characteristics of an anthropological perspective on language(s).

395.1(.2) Language Use and Issues in Northern Canada [LIÑ 395.1(.2)]

Prerequisite: one half credit (0.5) in either ANT or LIN.

The main focus of the course is Inuktitut, the language spoken by the Inuit. The linguistic situations in Nunavut and Nunavik (northern Quebec) are compared. Topics discussed include linguistic identity, language status, language maintenance and official languages of Canada. Although some formal exposure to Inuktitut is provided, this is not a language course.

411.1(.2) Data Collection in Socio-cultural Anthropology

412.1(.2) Explanation in Socio-cultural Anthropology

413.1(.2) Ethnohistory

446.1(.2) Evolution and Human Behavior 1

447.1(.2) Evolution and Human Behavior 2

451.1(.2) History of Anthropological Theory 1 Prerequisite: ANT 202.1(.2), 271.1(.2), 280.1(.2), 290.1(.2) and one (1.0) additional credit in ANT.

A history of anthropological theory from antiquity through the 19th century emphasizing the cultural context of influential intellectual trends.

452.1(.2) History of Anthropological Theory 2
Prerequisite: ANT 202.1(.2), 271.1(.2), 280.1(.2), 290.1(.2) and one (1.0) additional credit in ANT.

A history of anthropological theory in the 20th century

emphasizing American, British, and French intellectual traditions

462.1(.2) Method and Theory In Historical Archaeology Prerequisite: ANT 271.1(.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

463.1(.2) Method and Theory In Precontact Archaeology Prerequisite: ANT 271.1(.2).

Concepts and methods of precontact archaeology, survey techniques, data collection, and laboratory analysis. These topics are examined with emphasis on the archaeology of First Nations People of North America.

464.1(.2) Advanced Fieldwork in Archaeology

465.1(.2) Advanced Archaeology Laboratory

466.1(.2) Researching Halifax Heritage

Prerequisite: ANT 271.1(.2) and at least one (1.0) additional credit in ANT; ACS; or HIS above the 200 level.

In this course students learn how to conduct research on the archaeological potential and historical significance of sites and buildings within the Halifax Regional Municipality. A significant portion of the research will be conducted off-campus. Students will prepare and present reports on the archaeological potential a site and on the historical significance of a building.

Seminar 3 hours a week. 1 semester.

471.1(.2) Forensic Anthropology 1 Prerequisite: ANT 382.1(.2)

An introduction to forensic anthropology. The principal topic is the recovery and identification of human skeletal remains. The course consists almost entirely of laboratory work, so the number of students is restricted.

472.1(.2) Forensic Anthropology 2 Prerequisite: ANT 471.1(.2).

An introduction to forensic anthropology. The principal topic is human skeletal analysis. The course consists almost entirely of laboratory work, so the number of students is restricted.

475.1(.2)-478.1(.2); 479.0; 480.0 Seminar In Anthropology Prerequisite: one (1.0) 200 level university credit.

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.

491.1(.2) Ethnography of Communication [LIN 491.1(.2)]

Prerequisite: ANT 290.1(.2) or one half (0.5) credit in LIN.

Introduction to communication description as developed by Dell Hymes and John J. Gumperz. Observation and practical analysi (fieldwork) of communicative events in diverse situations. Cross cultural comparison of communication activities.

Classes 1 hr. and lab 1 1/2 hrs. a week. 1 semester.

492.1(.2) Anthropological Analysis of Linguistic Communities
[LIN 492.1(.2)]

Prerequisite: ANT 290.1(.2) or one half (0.5) credit in LIN.

Language as a criterion to delimit group boundaries. The

between cultural and linguistic norms. Comparative sis of linguistic behavior. One case study or geographical

chosen at each offering of the course (either one language selected social contexts, or the interacting ethnolinguistic coups in one region).

lesses 1 hr, and lab 1 1/2 hrs. a week. 1 semester.

.1(.2) Honors Thesis Research

Exequisite: restricted to students who have been accepted by bepartment into the honors program.

application of anthropological theory and methods to a welllined 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.

502.1(.2) Honors Thesis Writing

Prerequisite: ANT 501.1(.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.

Asian Studies (ASN)

Immittee on Asian Studies

- Beaupré, Coordinator
- Bowlby
- Das
- Rarvey
- **E** Keeble
- McGee
- Milward
- Morrison
- Robinson
- Becord
- Walter
- Wein
- Laffey
- Fung

Asian Studies/ Modem Languages and Classics Religious Studies Management Economics Political Science Anthropology Geography

History Geography Accounting Anthropology

Philosophy Adjunct Professor Adjunct Professor

Asian Studies degree program at Saint Mary's University has sen in operation for over twenty years. In that time frame, the and Commerce faculties have played a vital part in helping ant Mary's students understand Canada's changing role in a ball society and especially in defining its relationship with Asia. Informed knowledge of Asian languages and cultures is an bential component to this program and every effort is made to sist students of the program to travel to Asia and experience is vast continent themselves. Students are encouraged to usue a double major in Asian Studies and a related discipline.

cademic background in Asian Studies will help to prepare udents for careers in the diplomatic service, in international ade and industry and in the secondary and university teaching uts.

Desirt Mary's University is the only institution in the Atlantic
Devinces offering a comprehensive degree-granting program in
Desire Studies. In addition to the programs of study described
Desire, your attention is directed to the descriptions of the
Destricted of Chinese Studies and the Certificate of Japanese
Dudies found in the Faculty of Arts (Undergraduate) entry,
Dection 3 of this Calendar.

Engulations for Majors

Though it is possible to complete a major in Asian Studies with 5.0 credits, extra time and additional credits will often be be sirable and necessary. Facility in an Asian language is portant and possible participation in cultural exchange programs in Asia will provide a deeper understanding of Asian beities. Students intending to complete a major in Asian budies are required to complete 7.0 credits. These 7.0 credits sust include the following with a minimum of 4.0 credits at the 300 level or above.

- 2.0 consecutive Asian language credits (Introductory and Immediate).
- ASN 300.1(.2) and ASN 400.1(.2).
- 4.0 additional core credits from at least two different

disciplines other than language. The list of core courses is given below.

For first year students interested in completing an honors or major in Asian Studies, the following introductory courses will meet three of the four General Arts requirements, namely:

Requirement 3b

JPN 100.0 Introductory Japanese
CHI 100.0 Introductory Modern Chinese

Requirement 3c

HIS 208.0 Global History: 1450 to the Present

HIS 209.0 East Asia: From Prehistory to Modern Times

REL 202.0 Introduction to Comparative Religion

Requirement 3d

One (1.0) credit from:

ANT 202.1(.2) Introduction to Ethnology and Social Anthropology

ANT 280.1(.2) Introduction to Biological Anthropology

ANT 290.1(.2) Introduction to Human Communication

ECO 201.1(.2) Principles of Economics: Micro

ECO 202.1(.2) Principles of Economics: Macro

GPY 203.1(.2) Physical Geography: Global Patterns

GPY 204.1(.2) Demographics and Culture

GPY 213.1(.2) Physical Geography: Local and Regional

Patterns

GPY 214.1(.2) Environment and Livelihood

POL 200.0 Introductory Political Science

SOC 210.1(.2) Introductory Sociology

SOC 212.1(.2) Understanding Society

Regulations for Honors

- Admission to and continuance in the honors program in Asian Studies follows the general regulations of the Faculty of Arts, namely regulations 11, 12, and 13.
- Students seeking an honors 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.
- Students in either an honors or double honors program in Asian Studies must complete at least 10.0 credits and satisfy the following requirements:
- a. at least 3.0 credits in Asian languages, one of which must be at the intermediate level;
- b. core courses ASN 300.1(.2) and ASN 400.1(.2);
- at least 1.0 Asian Studies credit within each of the following departmental groupings:
 - (i) History and Religious Studies;
 - (ii) Anthropology, Economics, Geography, Political Science or Sociology;

- d. An honors thesis (ASN 500.0) 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;
- Annual approval of their program of study by the Chairperson of the Asian Studies Committee.

Regulations for Minors Minor in Asian Studies

Students majoring in another academic discipline may obtain a minor in Asian Studies by completing the equivalent of four (4.0) credits approved for the program:

These must be:

- (a) CHI 100.0 or JPN 100.0;
- (b) ASN 300.1(.2) and ASN 400.1(.2); and
- (c) two (2.0) credits 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: CHI 100.0; ASN 300.1(.2) and 400.1(.2); and two (2.0) other courses on China in at least two different disciplines taken from the following list: ANT 326.1(.2); ASN 305.1(.2); ASN 310.1(.2); ASN 450.0; CHI 200.0; HIS 323.0; HIS 342.0; HIS 396.1(.2); REL 327.1(.2); REL 345.1(.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: JPN 100.0; ASN 300.1(.2) and 400.1(.2) and two (2.0) other courses on Japan in at least two different disciplines taken from the following list:

ANT 326.1(.2); ANT 327.1(.2); ASN 302.1(.2); ASN 303.1(.2); ASN 410.1(.2); GPY 360.1(.2); HIS 354.1(.2); HIS 355.1(.2); HIS 356.1(.2); HIS 396.1(.2); JPN 200.0; REL 327.1(.2); REL 340.1(.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.

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 either 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

326.1(.2) Ethnology: East Asia 327.1(.2) Ethnology: Japan

Asian Studies	
300.1(.2)	Multidisciplinary Study of Asia
301.0; 304.1(.2)-	
306.1(.2)	Selected Topics in Asian Studies
302.1(.2)	Japan in Film and Literature
303.1(.2)	Contemporary Japan: Institutions and Culti
305.1(.2)	Contemporary China: Institutions and Culti
310.1(.2)	Chinese Film and Literature
311.1(.2)	Southeast Asian Popular Culture
400.1(.2)	Seminar in Asian Studies
401.0; 402.1(.2)-	
`406.1(.2)	Selected Topics in Asian Studies
410.1(.2)	Special Topics on Japan
450.0	China, Eternal and Transforming: Travel ar
	Study
490.1(.2)-499.1(.2)	
500.0	Honors Thesis
Geography	
360.1(.2)	Geography of Japan
History	
209.0	East Asia: From Prehistory to Modern Time
323.0	China Before 1800
325.0	Asian Crossroads: Southeast Asia, 1600 to Independence
342.0	Survey of Modern China
354.1(.2)	Traditional Japan: History and Culture
381.1(.2)	East Asia and the West to 1800
382.1(.2)	East Asia and the West Since 1800
396.1(.2)	China and Japan in the 20th Century:
	Ideology, State and Society
511.0	Modem East Asia, Selected Problems in-
	A A A . 1 A1

Modern Languages and Classics - Chinese

100.0	Introductory Modern Chinese
200.0	Intermediate Modern Chinese

Modernization

Modern Languages and Classics - Japanese

100.0	Introductory Japanese
200.0	Intermediate Japanese

Religious Studies

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323. I(.2) [423. I(.2)] The Islamic Religious Tradition
325.1(.2) [425.1(.2)] Myth and Story
326.1(.2) [426.1(.2)] The Hindu Religious Tradition
327.1(.2) [427.1(.2)] The Buddhist Religious Tradition
337.1(.2) [437.1(.2)] Hindu and Buddhist Religious Art

340.1(.2) [440.1(.2)] Japanese Religious Traditions 341.1(.2) [441.1(.2)] Violence and Non-Violence: East and Wed

Introduction to Comparative Religion

345.1(.2) [445.1(.2)] Chinese Religious Traditions

Sociology

447.1(.2) Work and the Empowerment of Women in India

Asian Studies Courses

300.1(,2) Multidisciplinary Study of Asia

This half course will introduce students to the study of Asia final 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.

301.0; 304.1(.2); 306.1(.2) Selected Topics in Asian Studie

The subject matter of these courses will be announced from to time. They will cover various aspects of Asian Studies and be multi-disciplinary in nature. The topics to be examined will determined by the instructor and/or Department.

302.1(.2) Japan in Film and Literature

This course will explore the cultural representation of tradition

modern Japanese culture through film and literature. Focus be on major works of Japanese literature, ranging from predem poetry to modern fiction, as well as their cinematic plations. All selected works of literature are in English station. No knowledge of the Japanese language is required.

- 1(.2) Contemporary Japan: Institutions and Culture course will introduce modern Japan, accentuating the lutions of family, school, and workplace. Emphasis will be loced on values, social participation, and the individual's position the context of contemporary Japanese society. No luttedge of the Japanese language is required.
- 5.1(.2) Contemporary China: Institutions and Culture course will introduce modern China, accentuating the tions of family, school, and workplace. Emphasis will be deed on values, socio-cultural practices, and the individual's within contemporary Chinese society. No knowledge of Chinese language is required.

1(.2) Chinese Film and Literature

course will explore the rich Chinese culture through essentative major works of modern literature, as well as new and contemporary art in China and Taiwan. Major themes to considered include the family, the changing role of women, estem influences, modernization, and national identity. All ested works of literature are in English translation. No contemporary with the chinese language is required.

11.1(.2) Southeast Asian Popular Culture

s course will study the development of fiction and film in the and varied cultural traditions of several Southeast Asian untries, namely Indonesia, Malaysia, the Philippines, Thailand Vietnam. Other aspects of popular culture such as drama, usic and art will be considered as well.

and 1(.2) Seminar in Asian Studies

equisite: ASN 300.1(.2) and 2.0 core credits in Asian Studies.

half course will provide an opportunity for Asian Studies half course their knowledge of Asia in a multidisciplinary station. This course may include case studies, specific area hadies and comparative approaches to regions in Asia. Both half and faculty involved in the Asian Studies program will hadicipate in this course.

401.0; 402.1(.2)-406.1(.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.

410.1(.2) Special Topics on Japan

Prerequisite: 1.0 Asian Studies credit or permission of instructor.

Special Topics on Japan is a seminar to be taught by a Japanese specialist invited to Saint Mary's University.

450.0 China, Eternal and Transforming: Travel and Study Prerequisite: permission of ASN Coordinator.

This course takes place between May and July in China with guided tours of urban centres 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.

490.1(.2)-499.1(.2) Directed Study

Prerequisite: permission of ASN 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.

500.0 Honors Thesis

Prerequisite: admission to final year of the honors 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 (AST and PHY)

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poservatory Director,
posociate Professor
pofergraduate Coordinator,
posociate Professor
professor
professor
professor

Professor

Produate Coordinator,

Professor

Professor

Professors

Issistant Professor

Munct Professors

Professor Emeritus

G. Mitchell

D. Tumer

G. Welsh

M. Butler

D. Guenther D. Clarke,

A. Sarty

P. Bennett, F. Marleau

A. Coley, T. Harriott,

M. Jain

W. Lonc

Astronomy (AST)

Interpretation is an ancient science which can trace some of its interpretationers to the neolithic builders of Stonehenge and Minoan navigators of the third millennium B.C. The modem interpretation of this branch of the physical sciences is interdisciplinary mature, and draws heavily upon its roots in the cognate areas in physics and gathematics as well as in the fields of chemistry,

space science, geology, biology, and computer science. Current research in astronomy and astrophysics relies upon space age detectors and modem computer systems to acquire and analyze large quantities of data, so its graduates are usually familiar with new technological developments as well as with the often-unique analytical approaches used to study objects in the universe. Like physicists, students of astronomy and astrophysics are well qualified to pursue a variety of scientific or teaching careers.

The Department offers programs of study that are designed to provide students with a strong undergraduate experience in both astronomy and physics. In addition to providing courses for degree-seeking students in these areas, the Department offers courses for the non-science major who wants to explore astronomy and physics using a less mathematical and more intuitive approach. AST 215.1(.2), AST 216.1(.2) and AST 217.1(.2) are

non-mathematical half-credit courses (0.5) intended for nonspecialists. AST 202.0 is an introductory course for science students which provides a broad background in all areas of astronomy. The 300- and 400-level courses are half-credit courses in a variety of areas in astronomy and astrophysics, and are suitable as electives for science majors (item 5b of the Faculty of Science requirements for Undergraduate Programs), including students in Co-operative Education programs.

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.

Undergraduate Courses

205.1(.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 AST 206.1(.2), also provides a comprehensive introduction to astronomy for Astrophysics (ASP) 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.

206.1(.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 AST 205.1(.2), also provides a comprehensive introduction to astronomy for Astrophysics (ASP) 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.

215.1(.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.

216.1(.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 AST 215.1(.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 quasa active galaxies, and the universe. Homework exercises consist laboratory and observing exercises that are done outside of regular class times. Students have access to the campus Burkil Gaffney Observatory for exercises involving the use of a telescope.

Classes 3 hrs. and lab/telescope observing 1 hr. a week. 1 semester.

217.1(.2) Life in the Universe

The possibility that life might exist elsewhere in the universe had fascinated human beings ever since our ancestors first gazed in the starry skies. Could life also have arisen on other worlds, or it the Earth unique? Are there other intelligent civilizations in the cosmos with whom 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.

312.1(.2) Foundations of Astrophysics

Prerequisite: AST 202.0, MAT 211.1(.2), PHY 211.1(.2) or permission of instructor.

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-divided telescope. Class discussion will begin with the celestial spherestime in astronomy, and astronomical catalogs. Topics in celestime chanics 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 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.

313.1(.2) Properties of Stars

Prerequisite: AST 312.1(.2) or permission of instructor.

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 to a discussion of spectral classification, and its interpretation, use 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 Sune

412.1(.2) Interstellar Matter and Stellar Evolution Prerequisite: AST 313.1(.2) or permission of instructor.

The course begins by examining the physical processes within neutral and ionized clouds and is followed by a discussion of state formation. Concepts introduced in AST 313.1(.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.

413.1(.2) Galaxies and Cosmology

Prerequisite: AST 313.1(.2) or permission of instructor.

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 feature

galaxies will be summarized, with emphasis on how features may have arisen through evolutionary processes include galaxy interactions. Attention will then shift to the properties and evolution of galaxy clusters, and to the scale structure of our universe. This will lead to a discussion bodern cosmological models and recent observational tests of - models.

1(.2) Data Analysis in Astronomy

Loguisite: AST 312.1(.2) or permission of instructor.

poal of this course is to instruct the student in the analysis of stronomical data. Following a general introduction to errors data reduction, the bulk of the course will consist of the use mputers in data reduction. Student projects will include the sis of images and spectral line maps.

1(.2) Solar System Astronomy

requisite: AST 206.0 and PHY 211.1(.2), or permission of

covered include fundamental data for planets and mattes, orbital mechanics, rocks and minerals, age dating of by radioactive decay, meteorites and tektites, comets, broids and remote sensing techniques, cosmogony and the history of the solar system, planetary and satellite interiors, Maces and atmospheres, and comparative planetology.

Enduate Courses

the 600-level courses are intended primarily for graduate dents in astronomy, fourth year students in either the major or programs may enrol in these courses with the permission the Department if the other requirements for the degree are sfied. Interested undergraduate students should consult the person or Undergraduate Coordinator before enroling in se courses.

1(.2) Galactic Astronomy

s course describes the contents and structure of the Milky Galaxy. Topics covered include: historical highlights, erence frames and stellar astronomy, spectral classification, metric systems, luminosity calibrations, clusters and especiations, star counts and stellar density functions, the mosity function, chemical composition variations in the maxy, solar motion, statistical and secular parallaxes, kinematic sups, galactic rotation and structure, spiral arms, and an duction to galactic dynamics.

14.1(.2) The Interstellar Medium

pics covered include: the phases of the interstellar medium, autral clouds, ionized hydrogen regions, interstellar molecules. grains, shocks, gravitational collapse, bipolar outflows, and bretion disks.

1.1(.2) Binary and Variable Stars

s course is devoted to the study of both binary stars and biable stars. Topics covered under binary stars include: tamentals of orbital motion and the properties of binary star tems, analytical and practical techniques for studying visual, rometric, spectroscopic, and eclipsing binaries, the massinosity relation, and classification of close binaries by Rochebe filling. Topics covered under variable stars include: light aves and variable star classification, eclipsing variables, sating variables and pulsation theory, rotating variables, que types, and the link between variability and stellar lutionary stages.

18.1(.2) Selected Topics in Astronomy and Astrophysics me or more selected specialty areas in astronomy will be Imined in greater detail than is possible within the broader pope of other courses. Topics will be chosen by the Department made available to interested students prior to registration.

minar 3 hrs. a week.

609.1(.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.

611.1(.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.

614.1(.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.

615.1(.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.

616.1(.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.

619.1(.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.

620.1(.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.

695.1(.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 1½ hrs. a week. 2 semesters.

696.1(.2) Graduate Seminar II

A continuation of AST 695.1(.2) normally taken by graduate students in the second year of the Master of Science program.

Seminar 1½ hrs. a week. 2 semesters.

697.0 Research Project in Astronomy

This required course for the graduate program must be taken in either the first or second year of study. Students earn credit for the course in the first year of the Master of Science program by completing a project on a research topic under the supervision of a faculty member. The research topic may, but need not, be related to the thesis project chosen. Students earn credit for the course in the second year of the Master of Science program through concentrated research related to their thesis project or by completion of an independent project with, perhaps, a faculty member other than their thesis supervisor.

698.0 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.

Astrophysics (ASP)

Two Bachelor of Science programs are available to students wishing to study astronomy and astrophysics. These are the major program and honors program in astrophysics. Because astronomy is founded and depends heavily on physics, the astrophysics programs emphasize physics as well as astronomy.

The major program is designed for students who want to obtain a solid introduction to astronomy and physics but who do not plan on continuing to graduate school in astronomy. The honors program is designed for students who intend to continue their education in astronomy at the graduate level. Students in the major program must complete seven (7.0) physics credits and three (3.0) astronomy credits, of which two (2.0) of the astronomy credits must come from astronomy courses at the 300 level or above, and the other astronomy credit (1.0) must be AST 205.1(.2) and 206.1(.2) (or equivalent). Students in the honors program must complete nine and one-half (9.5) physics credits and three and one-half (3.5) astronomy credits, of which two and one-half (2.5) must come from astronomy courses at the 300 level or above, and the other astronomy credit (1.0) must be AST 2Q5.1(.2) and 206.1(.2) (or equivalent). Those courses listed in the respective programs are required courses. Electives fill out both programs to the required twenty (20.0) credits. 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. AST 205.1(.2) and AST 206.1(.2)
- 2. PHY 210.1(.2) and 211.1(.2)
- 3. MAT 210.1(.2) and 211.1(.2)
- 4. EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)
- 5. one (1.0) science elective (CHE 201.0 recommended)

Year 2

- 1. AST 312.1(.2) and 313.1(.2)
- 2. PHY 305.1(.2) and 306.1(.2)
- 3. PHY 326.1(.2) and 335.1(.2)
- 4. PHY 355.1(.2) and one-half (0.5) science elective
- 5. MAT 310.1(.2) and 311.1(.2) [one (1.0) science elective]

Year 3

- 1. either AST 412.1(.2) or 413.1(.2) and PHY 465.1(.2)
- 2. PHY 405.1(.2) and 417.1(.2)
- 3. PHY 435.1(.2) and 436.1(.2)
- one-half (0.5) elective and either PHY 457.1(.2) or one-half (0.5) elective
- 5. one (1.0) non-science elective

Year 4

- one-half (0.5) science elective and either AST 412.1(.2) or 413.1(.2)
- 2. one-half (0.5) elective and either PHY 457.1(.2) or one-half

- (0.5) elective
- 3. PHY 466.1(.2) and one-half (0.5) elective
- 4. one (1.0) non-science elective
- 5. one (1.0) science elective

b. Honors Astrophysics Program

Year 1

- 1. AST 205.1(.2) and AST 206.1(.2)
- 2. PHY 210.1(.2) and 211.1(.2)
- 3. MAT 210.1(.2) and 211.1(.2)
- 4. EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)
- one (1.0) science elective (CHE 201.0 recommended)

Year 2

- 1. AST 312.1(.2) and 313.1(.2)
- 2. PHY 305.1(.2) and 306.1(.2)
- 3. PHY 326.1(.2) and 335.1(.2)
- 4. PHY 355.1(.2) and one-half (0.5) science elective
- 5. MAT 310.1(.2) and 311.1(.2) [one (1.0) science elective]

Year '

- 1. either AST 412.1(.2) or 413.1(.2) and PHY 465.1(.2)
- 2. PHY 405.1(.2) and 417.1(.2)
- 3. PHY 435.1(.2) and 436.1(.2)
- one-half credit (0.5) science elective and either PHY 445.1(.2) or PHY 457.1(.2)
- 5. one (1.0) non-science elective

Year 4

- one-half (0.5) AST at the 600 level and either AST 412.1 or 413.1(.2)
- one half (0.5) science elective and either PHY 457.1(.2) PHY 445.1(.2)
- PHY 466.1(.2) and 1.0 credits from PHY 437.1(.2), PHY 467.1(.2), PHY 472.1(.2), PHY 473.1(.2), PHY 474.1(.2)
- PHY 500.0
- 5. one-half (0.5) science elective

Physics (PHY)

Physics forms the foundation for all other sciences. Consider to be the most fundamental of the natural sciences, physics of with the observation and modelling of phenomena on scales the subatomic to the cosmological. In the broadest sense, physicists seek to enunciate physical laws and develop mathematical models of natural phenomena consistent with experimental evidence.

With their training in understanding complex phenomena, in applying analytical and computational methods, and especial critically analyzing problems, students of physics are uniquely qualified to pursue careers or postgraduate studies in a wide vanety of fields - particularly in a high-technology society who basic and applied science touch every aspect of human life. To aerospace, communications, energy and health care fields an areas of employment for physics graduates at all degree level.

The Department of Astronomy and Physics offers programs designed to provide students with a thorough preparation in physics. Contingent on University and Faculty of Science deg requirements, three Bachelor of Science programs are availal to students wishing to study physics: the general program (physics concentration), the major program, and the honors program. The major program is designed for students who wa to obtain a solid introduction to physics but who do not plan to continue their studies in physics in a graduate program. The honors program is designed for students who do anticipate a continuation of their studies in physics at the graduate level. A students considering a degree program in physics must consumit the Chairperson or the Undergraduate Coordinator.

. Physics Concentration

Year 1

PHY 210.1(.2) and 211.1(.2) MAT 210.1(.2) and 211.1(.2)

201,1(.2) and one of EGL 203,1(.2) or 204,1(.2) 2.0 credits from science or humanities

eight half-credit courses (4.0 credits) in physics (in produnce with science degree requirements and subject to ouisites) from:

PHY 306.1(.2) 305.1(.2) PHY 335.1(.2) 326.1(.2) PHY 405.1(.2) **355.1(.2)** PHY 435.1(.2) 417.1(.2) ¥ 436.1(.2) PHY 437.1(.2) PHY 446.1(.2) 445.1(.2) 457.1(.2) PHY 465.1(.2) 466.1(.2) PHY 467.1(.2) PHY 473.1(.2) 472.1(.2) ¥ 474.1(.2)

Monal elective(s) from science and humanities must be usen to complete the program.

Physics Major

PHY 210.1(.2) and 211.1(.2)

MAT 210.1(.2) and 211.1(.2)

EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)

one (1.0) science elective (CHE 201.0 recommended)

one (1.0) non-science elective

r 2

PHY 305.1(.2) and 306.1(.2)

PHY 335.1(.2) and 326.1(.2)

PHY 355.1(.2) and one-half credit (0.5) elective

MAT 310.1(.2) and 311.1(.2) [one (1.0) science elective]

one credit (1.0) science elective

PHY 405.1(.2) and PHY 417.1(.2)

PHY 435.1(.2) and 436.1(.2)

PHY 445.1(.2) and 465.1(.2)

either PHY 457.1(.2) and one-half (0.5) science elective or

one credit (1.0) elective

one credit (1.0) non-science elective

either PHY 457.1(.2) or one-half credit (0.5) science elective (0.5); or one credit (1.0) elective

PHY 466.1(.2) and one-half credit (0.5) PHY credit at the

400 level or above

one credit (1.0) science elective

one credit (1.0) non-science elective

one credit (1.0) elective

Physics Honors

PHY 210.1(.2) and 211.1(.2)

MAT 210.1(.2) and 211.1(.2)

EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)

one credit (1.0) science elective (CHE 201.0 recommended)

one credit (1.0) non-science elective

PHY 305.1(.2) and 306.1(.2)

PHY 326.1(.2) and 335.1(.2)

PHY 355.1(.2) and one-half credit (0.5) elective

MAT 310.1(.2) and 311.1(.2) [one credit (1.0) science

electivel

one credit (1.0) science elective

PHY 405.1(.2) and PHY 417.1(.2)

PHY 435.1(.2) and 436.1(.2)

PHY 445.1(.2) and PHY 465.1(.2)

PHY 457.1(.2) and one-half (0.5) science elective or one

credit (1.0) elective

one credit (1.0) non-science elective

Year 4

- PHY 457.1(.2) and one-half credit (0.5) science elective or one (1.0) elective
- PHY 446.1(.2) and 466.1(.2)
- one and one half credits (1.5) from PHY 437.1(.2), 467.1(.2), 472.1(.2), 473.1(.2), and 474.1(.2)
- 4 PHY 500.0
- one-half (0.5) science elective

d. **Double Major in Mathematics and Physics**

Year 1

- MAT 210.1(.2) and 211.1(.2)
- CSC 226.1(.2) and 227.1(.2) 2.
- PHY 210.1(.2) and 211.1(.2)
- EGL 201.1(.2) and one of 202.1(.2) or 203.1(.2) or 204.1(.2)
- one credit (1.0) science elective (CHE 201.0 recommended)

Year 2

- MAT 310.1(.2) and 311.1(.2)
- MAT 320.1(.2) and 321.1(.2) 2.
- 3. PHY 305.1(.2) and 306.1(.2)
- PHY 326.1(.2) and 335.1(.2) 4.
- 5. PHY 355.1(.2) and one-half credit (0.5) elective

Year 3

- MAT 405.1(.2) and either 436.1(.2) or 456.1(.2)
- PHY 465.1(.2) and one-half credit (0.5) non-science elective 2.
- 3. PHY 405.1(.2) and PHY 417.1(.2)
- 4. one credit (1.0) elective
- one credit (1.0) non-science elective

Year 4

- two credits (2.0) from MAT courses numbered 404 or above 1.
- PHY 457.1(.2) and one-half credit (0.5) from PHY courses numbered 400 or above
- PHY 466.1(.2) and one-half credit (0.5) non-science elective
- one credit (1.0) science elective

Honors Mathematics and Physics e.

Year 1

- MAT 210.1(.2) and 211.1(.2) 1.
- CSC 226.1(.2) and 227.1(.2) 2.
- PHY 210.1(.2) and 211.1(.2)
- EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2) 4.
- one credit (1.0) science elective (CHE 201.0 recommended) 5.

Year 2

- MAT 310.1(.2) and 311.1(.2) 1.
- 2. MAT 320.1(.2) and 321.1(.2) 3. PHY 305.1(.2) and 306.1(.2)
- PHY 326.1(.2) and 335.1(.2)
- PHY 355.1(.2) and one-half credit (0.5) non-science elective

Year 3

- MAT 405.1(.2) and 406.1(.2) 1.
- either MAT 436.1(.2) and 437.1(.2); or MAT 456.1(.2) and 457.1(.2)
- PHY 405.1(.2) and PHY 417.1(.2) PHY 457.1(.2) and PHY 465.1(.2)
- 5 one credit (1.0) non-science elective

Year 4

- two credits (2.0) from MAT courses numbered 404 or above
- PHY 466.1(.2) or one credit (1.0) from PHY 437.1(.2), 467.1(.2), 472.1(.2), 473.1(.2), and 474.1(.2)
- PHY 465.1(.2) and either PHY 456.1(.2) or 466.1(.2) 3.
- MAT 500.0 or PHY 500.0

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. CHE 201.0 or 202.0 or 203.0
- PHY 210.1(.2) and 211.1(.2)

3. MAT 210.1(.2) and 211.1(.2)

- 4. EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)
- 5. one credit (1.0) non-science elective

Year 2

- 1. MAT 310.1(.2) and 311.1(.2)
- either CHE 322.1(.2) and 324.1(.2); or CHE 332.1(.2) and 333.1(.2); or CHE 344.1(.2) and 345.1(.2);
- 3. PHY 305.1(.2) and 326.1(.2)
- 4. PHY 335.1(.2) and CHE 312.1(.2)
- 5. PHY 355.1(.2); and one-half credit (0.5) science elective

Year 3

- 1. PHY 405.1(.2) and PHY 465.1(.2)
- 2. PHY 435.1(.2) and PHY 436.1(.2)
- CHE 313.1(.2) and PHY 465.1(.2)
- CHE 322.1(.2) and 324.1(.2); or CHE 332.1(.2) and 333.1(.2); or CHE 344.1(.2) and 345.1(.2);
- 5. one credit (1.0) elective

Year 4

- 1. either PHY 457.1(,2) and either 445.1(.2) or 446.1(.2)
- 2. PHY 466.1(.2) and one-half credit (0.5) non-science elective
- 3. one credit (1.0) in CHE at the 400 level or above
- 4. one credit (1.0) in CHE at the 400 level or above
- 5. one credit (1.0) non-science elective

g. Honors Chemistry and Physics

Students should be aware of the specific requirements for double honors in chemistry noted in the Chemistry section of the Calendar.

Year 1

- 1. CHE 201.0 or 202.0 or 203.0
- 2. PHY 210.1(.2) or 211.1(.2)
- 3. MAT 210.1(.2) and 211.1(.2)
- EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)
- 5. one credit (1.0) non-science elective

Year 2

- MAT 310.1(.2) and 311.1(.2) [one (1.0) science elective]
- 2. CHE 322.1(.2) and 324.1(.2); or CHE 332.1(.2) and 333.1(.2); or
- CHE 344.1(.2) and 345.1(.2) 3. PHY 305.1(.2) and 326.1(.2)
- 4. PHY 335.1(.2) and CHE 312.1(.2)
- 5. PHY 355.1(.2) and one-half credit (0.5) non-science elective
- 6. MAT 301.1(.2) (suggested additional science elective)

Year 3

- 1. PHY 405.1(.2) and PHY 465.1(.2)
- PHY 435.1(.2) and 436.1(.2)
- 3. CHE 313.1(.2) and either PHY 445.1(.2) or 446.1(.2)
- CHE 322.1(.2) and 324.1(.2); CHE 332.1(.2) and 333.1(.2); or 344.1(.2) and 345.1(.2)
- 5. one credit (1.0) in CHE at the 400 level or above

Year 4

- 1. CHE 498.0
- PHY 457.1(.2) and one-half credit (0.5) non-science elective, and PHY 445.1(.2)
- PHY 466.1(.2) and one-half credit (0.5) from PHY 437.1(.2), 467.1(.2), 472.1(.2), 473.1(.2), and 474.1(.2)
- 4. PHY 500.0 or CHE 500.0
- 5. one credit (1.0) in CHE at the 400 level or above

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.

210.1(.2) University Physics I

Prerequisite: Nova Scotia Grade 12 physics or equivalent; MAT

190.1(.2) or MAT 210.1(.2) (may be taken concurrently).

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 take PHY 205.0.

211.1(.2) University Physics II

Prerequisite: PHY 210.1(.2) or MAT 210.1(.2)/211.1(.2) (may be taken concurrently).

This calculus-based physics course is a continuation of PHY 210.1(.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 tall PHY 205.0.

235.1(.2) Physics for Life Sciences I

Prerequisite: Nova Scotia Grade 12 Math Pre-calculus and Nd 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 tal PHY 230.0.

236.1(.2) Physics for Life Sciences II Prerequisite: PHY 235.1(.2).

This algebra-based physics course builds on the foundation of PHY 236.1(.2), and considers specific applications, such as thermodynamics, waves and sound, light and optics, electricity and magnetism, atomic physics and radioactivity. These idea are applied to "real world" situations, including biological systems.

Classes 3 hrs. and lab/tutorial 3 hrś./week. One semester.

Note: Credit cannot be given to students who have already tal PHY 230.0.

Note: Grade of at least A in these courses, combined with crefor MAT 210.1(.2) and 211.1(.2), is accepted as a prerequisite advanced courses in physics.

305.1(.2) Newtonian Mechanics

Prerequisite: PHY 211.1(.2), MAT 211.1(.2), and MAT 310.1(.2)/311.1(.2) (may be taken concurrently).

An introduction to the fundamental concepts behind our understanding of dynamical systems. Topics that will be coverinclude vectors, work and potential energy, stability, central formation and orbits, rigid bodies in two dimensions.

306.1(.2) Waves and Optics

Prerequisite: PHY 211.1(.2) and MAT 211,1(.2).

An introduction to the concepts behind the production, propagation and manipulation of waves including light. Topic that will be discussed include: the simple harmonic oscillator wave equation, wave velocity and propagation, wave packet

will lead to a discussion of the techniques of geometrical physical optics.

bases 3 hrs. a week and lab 3 hrs. a week, 1 semester.

(.2) Introduction to Modern Physics equisite: PHY 305.0.

Special Theory of Relativity and early ideas in Quantum chanics are introduced. Topics in relativity include observed chartures from Newtonian theory, Lorentz transformations, see and time dilation, the "Twin Paradox", as well as some centary ideas in relativistic dynamics. Topics in Quantum chanics include the quantum theory of light, the Bohr model of common, the wave nature of particles and the Schrödinger centor is applied to one-dimensional problems.

1(.2) Introductory Mathematical Methods for Physicists equisite: PHY 211.1(.2) and MAT 211.1(.2).

course introduces basic mathematical and computational pariques in Physics. Topics in mathematical techniques: stor calculus, series expansion and function approximation, bert spaces, and eigensystems. Topics in computational indiques include: introduction to programming, solutions of algebraic equations, interpolation, ingegration of functions, incling, eigensystems, lease squares fitting, and the Rungemethod.

1(.2) Electricity and Magnetism equisite: PHY 211.1(.2) and MAT 211.1(.2) and PHY 1(.2) (may be taken concurrently).

ments are introduced to basic concepts describing electric and metic fields, including Gauss' law, Ampère's law, Faraday's conductors and insulators, resistance, inductance, inductance in AC circuits.

lesses 3 hrs. a week and lab 3 hrs. a week. 1 semester.

5.1(.2) Classical Mechanics equisite: PHY 305.1(.2), MAT 311.1(.2), and PHY 335.1(.2).

course introduces the generalized Lagrangian and introduces the generalized Lagrangian and introduces of dynamics and applies them to see of central force problems, rigid bodies in three insions, the motion of tops and the effect of constraints.

11(.2) Thermal Physics equisite: PHY 335.1(.2) and 326.1(.2).

budy of thermodynamics and the underlying foundation of the dy of large systems – statistical mechanics. Both classical buantum mechanical systems are considered.

modit cannot be given for students who have already a credit for 416.1(.2).

1(.2) Mathematical Methods In Physics I sequisite: PHY 305.1(.2), PHY 335.1(.2), PHY 355.1(.2), MAT II(.2).

Ecussion of the techniques used in theoretical physics to baribe complex phenomena, including differential equations appecial functions, complex analysis, Cauchy's theorem and calculus of residues.

1(.2) Mathematical Methods In Physics II equisite: PHY 435.1(.2).

scussion of more advanced methods in theoretical physics, adding the application of statistical methods, Green's functions, adding the applications, transform theory, numerical analysis.

.1(.2) Computational Methods In Physics
equisite: PHY 326.1(.2) and 405.1(.2) and either PHY
1(.2) or MAT 495.1(.2).

The use of the computer as a tool to solve "real" physics problems is inescapable. This course provides the necessary background in computational methods required by all physicists. A quick introduction to the department's Unix platform and its service is given, followed by an overview of Unix, and programming languages such as FORTRAN and C. 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, splinefitting, Romberg integration, random numbers, root-finding, fast Fourier Transforms, data-modelling, integrating, and solutions to partial differential equations.

445.1(.2) Advanced Laboratory I

Prerequisite: PHY 305.1(.2) and MAT 311.1(.2)

Laboratory experience in advanced topics of physics and/or astrophysics. Students will be responsible for assembling, performing and documenting the experiments. NOTE: While this is a half credit course, it will be taught over two semesters.

Lab 3 hrs. a week. 2 semesters.

446.1(.2) Advanced Laboratory II Prerequisite: PHY 445.1(.2).

Advanced topics in physics and astrophysics in the laboratory. Students will be responsible for setting up and performing the experiments, analyzing data, and writing computer programs. There will be a group project for this course, to be 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.

457.1(.2) Electrodynamics Prerequisite: PHY 355.1(.2) and 435.1(.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.

Note: Credit cannot be given for this course if student already has credit for PHY 456.1(.2).

485.1(.2) Quantum Mechanics I Prerequisite: PHY 326.1(.2), 405.1(.2), and PHY 435.1(.2) or MAT 405.1(.2).

This course builds on the foundation set in PHY 326.1(.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.

466.1(.2) Quantum Mechanics II
PHY 465.1(.2), PHY 436.1(.2) or MAT 406.1(.2)/437.1(.2) or MAT 406.1(.2)/457.1(.2) which may be taken concurrently; or permission of instructor.

This course is a continuation of PHY 465.1(.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.

467.1(.2) Quantum Mechanics III Prerequisite: PHY 466.1(.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.

472.1(.2) Fluid Dynamics

Prerequisite: PHY 335.1(.2) and 405.1(.2), and 436.1(.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.

473.1(.2) General Relativity Prerequisite: PHY 405.1(.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.

474.1(.2) Subatomic Physics Prerequisite: PHY 465.1(.2).

An introduction to modern nuclear and particle physics. Topic may include the nucleon-nucleon interaction, the deuteron, the nuclear shell model, dynamical probes of nuclei (electron, phrand hadron scattering), the structure of nucleons and mesonal electroweak interactions, and the implications of quantum field theory

500.0 Research Thesis

Prerequisite: honors standing.

Research project carried out by the student under the supervior a member in the Department. The project should be in the of astrophysics for students in the honors astrophysics progra. The student will submit a thesis and defend it orally.

Directed study 3 hrs. a week. 2 semesters.

Atlantic Canada Studies (ACS)

Committee on Atlantic Canada Studies

M. Harry, Coordinator
G. Barrett
C. Byrne
J. Charmard

English
Sociology
English
Management

T. Charles Finance and Management Science

L. Christiansen-Ruffman Sociology
D. Cone Biology
R. Cosper Sociology
S. Davis Anthropology

K. Flikeid French C. Howell History B. Kiesekamp History M. MacDonald **Economics** K. MacKinnon **English** R. McCalla Geography H. McGee **Anthropology** H. Millward Geography J. Morrison History

Political Science D. Naulls P. O'Siadhail Inish Studies Sociology D. Perrier J. Reid History B. Robinson Geography A. Seaman **English** History R. Twomey M. Vance History M. VanderPlaat Sociology Sociology H. Veltmeyer **English** T. Whalen M. Wiles Biology

graduate student representative undergraduate student representative

Atlantic Canada Studies is an interdisciplinary major, minor, and honors 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, or honors 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 honors.

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 to duration of the program, and to provide the necessary liaison the Committee. The following are the regulations for the major minor, and honors programs. Details concerning the Master of Arts in Atlantic Canada Studies degree are found in Section 3 this Calendar.

Majors

To complete a major concentration in Atlantic Canada Studial student must meet the usual University requirements for the Bachelor of Arts degree, and in particular, obtain eight (8.0) credits from the courses listed below. At least four (4.0) of the eight (8.0)

credits must be at the 300 level or above. Students are require to select courses in accordance with the following criteria:

- The courses must include at least one (1.0) credit from e of three of Groups A, B, C, D and E.
- The courses must include at least one (1.0) credit from e of three different academic disciplines. Interdisciplinary ACS courses do not count as a discipline for this purpose.
- ACS 400.0 must be one of the courses selected.
- 4. No more than three (3.0) credits may be selected from Group E.
- 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 four (4.0) cred chosen from the courses listed below and completed with a quality point average of at least 2.00. At least two (2.0) credit must be at the 300 level or above, and the courses selected include ACS 400.0. The courses must also include one (1.0) credit from each of three different academic disciplines, and more than two (2.0) credits may be selected from Group E.

Honors

To complete an honors program in Atlantic Canada Studies, a student must meet the usual University requirements for the Bachelor of Arts (Honors) degree, and in particular, obtain ten (10.0) credits from the courses listed below. At least eight (8.6 the ten (10.0) credits must be at the 300 level or above. Studiare required to select courses in accordance with the following criteria:

The courses must include at least one (1.0) credit from each four of Groups A, B, C, D, and E.

The courses must include at least one (1.0) credit from each three different academic disciplines. Interdisciplinary ACS assess do not count as a discipline for this purpose.

ACS 500.0 must be one of the courses selected.

No more than three (3.0) credits may be selected from

It is the responsibility of the student to ensure that all requisites have been fulfilled for the courses chosen.

A: Interdisciplinary Courses in Atlantic Canada

2S 300.0; ACS 301.1(.2); ACS 302.1(.2); ACS 303.1(.2); ACS **5**1(.2); ACS 310.0; ACS 400.0; ACS 401.1(.2) to ACS **5**1(.2); ACS 500.0.

boup B: Culture and History

323.1(.2)/324.1(.2); EGL 312.1(.2); EGL 380.0; FRE 1(.2); FRE 405.1(.2); HIS 320.0; HIS 340.0; HIS 346.1(.2); 372.1(.2); HIS 373.1(.2); HIS 535.0; HIS 560.0; IRS 1(.2); IRS 204.1(.2); IRS 307.0.

boup C: Social and Political Economy

DO 324.1(.2); ECO 325.1(.2); SOC 320.0; SOC 327.0; SOC 320.0; SOC 420.0; SOC 453.0; SOC 468.1(.2).

Broup D: Ecology and Environment

DO 361.1(.2); ENV 440.1(.2); GEO 202.1(.2); GEO 203.1(.2); EO 208.1(.2); GPY 304.1(.2); GPY 340.1(.2); SOC 310.1(.2).

Loup E: Cognate Courses

316.1(.2); ANT 317.1(.2); ANT 329.1(.2); ANT 371.1(.2); T 372.1(.2); ANT 395.1(.2); ANT 413.1(.2); BIO 203.0; BIO 1(.2); BIO 331.1(.2); ECO 306.1(.2); ECO 310.1(.2); ECO 5.1(.2); ECO 322.1(.2); ECO 349.1(.2); ECO 366.1(.2); ECO 1(.2); ECO 430.1(.2); EGL 371.1(.2); EGL 372.1(.2); EGL 1(.2); EGL 376.1(.2); EGL 432.0; EGL 463.1(.2); EGL 475.0; **E 412.1(.2)**; FRE 419.0; FRE 434.1(.2); FRE 440.1(.2); GPY 11.1(.2); GPY 319.0; GPY 331.1(.2); GPY 339.0; GPY 364.1(.2); 423.1(.2); HIS 215.0; HIS 231.0; HIS 232.0; HIS 240.0; HIS 1.0; HIS 327.0; HIS 332.0; HIS 347.0; HIS 361.1(.2); HIS 1(.2); HIS 387.1(.2); HIS 513.0; HIS 525.0; IRS 308.0; IRS 27.1(.2); IRS 328.1(.2); IRS 400.0; IRS 525.0; POL 240.1(.2); 304.0; POL 310.0; POL 315.0; POL 317.0; POL 330.0; POL **D.0**; POL 447.1(.2); POL 450.1(.2); POL 455.0; POL 551.0; SY 418.1(.2); REL 347.1(.2); SOC 306.0; SOC 321.0; SOC 3.0; SOC 340.0; SOC 391.0; SOC 405.0; SOC 425.0; SOC 0; SOC 480.0; SOC 481.0; WMS 349.1(.2).

course provides an introduction to the cultural traditions and stations of the various regions and ethnic groups of the three pritime Provinces and Newfoundland. Lectures will cover a wide to group of architectural, artistic, ecclesiastical, educational, ethnic, and static topics. Students will engage in both individual and the projects and be required to write a final examination.

whee: While the same course description is applied to oneinester courses designated I and II, each course is in fact selfintained in content and entirely different each time it is offered.

1.1(.2) Selected Topics in Atlantic Canada Studies I s semester course will provide the student with an opportunity take courses on specific Atlantic Canada topics which do not fit with the standard offerings of other departments of the

12.1(.2) Selected Topics in Atlantic Canada Studies II 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 offenings of other departments of the University.

303.1(.2) Higher Education in Atlantic Canada

This course will examine the role of higher education institutions in Atlantic Canada, from historical and contemporary perspectives, and will thus encourage informed assessment of the needs and responsibilities of higher education in the region.

305.1(.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.

310.0 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 on 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.

400.0 Atlantic Canada Seminar

Prerequisite: student must be a Year 3 ACS major or minor.

This course, intended for majors in Atlantic Canada Studies, will provide an opportunity for students in the program to integrate their knowledge of the region 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. 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.

401.1(.2) to 405.1(.2) Directed Readings Prerequisite: permission of ACS Coordinator.

These courses provide opportunities to study a particular subject in detail. They will normally require a considerable amount of independent, though supervised, study.

500.0 Honors Seminar

Prerequisite: enrolment in ACS honors program.

This course will provide an opportunity for honors students to integrate their knowledge in an interdisciplinary fashion.

Master of Arts in Atlantic Canada Studies

620.0 Culture of Atlantic Canada Prerequisite: enrolment in the Master of Arts in ACS or permission of ACS Coordinator.

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

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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.

630.0 Seminar on Atlantic Canada Ecology and ResourcesPrerequisite: enrolment in the Master of Arts in ACS or
permission of ACS Coordinator.

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.

640.0 Atlantic Canada Political Economy Seminar Prerequisite: enrolment in the Master of Arts in ACS or permission of ACS Coordinator.

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.

650.0 Directed Reading

Prerequisite: enrolment in the Master of Arts in ACS or permission of ACS Coordinator.

Reading courses will be organized by the instructor(s) involved 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 pape will be required at the end of each course.

660.0 History and Society: The Atlantic Provinces Semina Prerequisite: graduate standing or permission of instructor.

This course, intended for master's students in Atlantic Canada Studies and honors and master's students in history, address the nature of historical inquiry into issues relating to the social and economic history of the Atlantic region. Topics to be cove will include regional culture, gender and race, the family, processes of development and underdevelopment, scientism professionalization, health, recreation and sport. Students who have completed ACS 660.0 are not eligible to enrol in HIS 560.

Seminar 3 hrs. a week. 2 semesters.

690.0 Thesis Research

Prerequisite: enrolment in the Master of Arts in ACS or permission of ACS Coordinator.

Students will engage in the research and writing of a thesis un supervision of a thesis committee. The student must satisfy the supervisor that thesis research and all other methodological a 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 appreparation for the treatment of certain thesis topics. Student will publicly defend their thesis, following which a final grade will be determined by the thesis committee.

Biology (BIO)

Chairperson, Professor

Professors

Associate Professors

Assistant Professors

A 41 - 31 D - 6 - - - -

Adjunct Professors

Professor Emeriti

D. Strongman

D. Cone, D. Richardson

T. Rand, L. Vasseur,

M. White

C. Barber, G. Jones,

Z. Dong, G. Sun

G. Anderson, R. Cusack,

R. MacKay

B. Kapoor, A. Rojo

The Biology Department offers programs to fulfil 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 honors in biology, and
- a double major or honors in biology and another science subject.

Students completing a general degree in blology 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 honors degree in blology 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.

A Diploma in Forensic Sciences is also offered by the Department of Biology. Details are found above in the Faculty of Science portion of Section 3. Students should consult the Science Faculty regulations outling in Section 3 of this Calendar.

Major in Biology

(1) BIO 200.0

(2) At least three (3.0) credits from these core courses:

BIO 303.1(.2) Plant Biology

BIO 307.1(.2) Genetics

BIO 308.1(.2) Biostatistics

BIO 321.1(.2) Cell Biology BIO 322.1(.2) Physiology I

BIO 324.1(.2) Ecology

BIO 326.1(.2) Non-vertebrates

BIO 327.1(.2) Anat/Morph-vertebrates

BIO 329.1(.2) Systematics

BIO 398.1(.2) Intro to Microbiology

- (3) at least two (2.0) credits at the 400-level.
- (4) one (1.0) to two (2.0) credits of BIO electives.

Concentration in Biology:

Requirements (1) and (2) and one (1.0) credit at the 400-level required for the BIO concentration.

Double Majors:

Requirements (1) to (3) are necessary to fulfil the requirement for the BIO major. For details on the necessary courses for the second major, see the appropriate departmental section.

Minor in Biology:

Requirements (1) and (2) and one (1.0) credit at the 400-level required for the BIO minor. For details on the requirements for the major subject, see the appropriate departmental section.

nours in Biology:

BIO 200.0

BIO 308.1(.2) and at least two and one half (2.5) credits from the core courses above.

three (3.0) credits at the 400-level.

one (1.0) to three (3.0) credits of BIO electives.

BIO 549.0 (Honors Seminar).

BIO 500.0 (Honors 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.

DTE: It is the student's responsibility to secure a pervisor for the thesis course prior to enrolling in the eners program. It is highly recommended that prospective mors students consult with the Departmental Chair the preceding the academic year they plan to do an honors agram.

buble Honors:

details on the necessary courses for the second honors, see impropriate departmental section. Students MUST consult Chairs of both departments PRIOR to making an application a double honors degree.

(1.0) credit from the following courses may be substituted for a (1.0) biology credit required for a Bachelor of Science degree biology (e.g., Faculty of Science regulation 6d): ANT 471.1(.2), T 472.1(.2), CHE 451.1(.2), CHE 452.1(.2), GEO 320.1(.2), EO 321.1(.2), GEO 335.1(.2), PSY 407.1(.2), and PSY if (.2). This credit cannot be used to fulfil both the biology birement and the other requirements for a Bachelor of Science (e.g., regulation 6e).

murses offered by the Department of Biology fall into three mes (Molecular, Organismal and Ecological) and students ay opt for a course selection which enables specialization in the of the themes or exposure to one or more themes. The murses are listed below with respect to the themes.

Secular: BIO 307.1(.2), 321.1(.2), 329.1(.2), 402.1(.2), 414.1(.2), 417.1(.2), 418.1(.2), 419.1(.2), 420.1(.2), 419.1(.2).

mismal: BIO 303.1(.2), 307.1(.2), 322.1(.2), 323.1(.2), 333.1(.2), 325.1(.2), 326.1(.2), 327.1(.2), 328.1(.2), 329.1(.2), 398.1(.2), 328.1(.2), 402.1(.2), 404.1(.2), 408.1(.2), 411.1(.2), 416.1(.2), 411.1(.2), 421.1(.2), 423.1(.2), 424.1(.2), 426.1(.2), 427.1(.2), 421.1(.2), 430.1(.2).

biogical: BIO 307.1(.2), 308.1(.2), 324.1(.2), 329.1(.2), 1.1(.2), 398.1(.2), 404.1(.2), 412.1(.2), 414.1(.2), 416.1(.2), 2.1(.2), 423.1(.2), 425.1(.2), 428.1(.2), 430.1(.2), 447.1(.2), 4.1(.2), 449.1(.2), 450.1(.2).

of the following courses have a 3 hour per week lab apponent unless otherwise noted. Students must pass both the paratory and the lecture components of a course to pass the se.

10.0 Principles of Biology

requisite: Nova Scotia Grade 12 BIO 441 or equivalent.

Introductory study of the principles and organization of life, Juding molecular and cell biology, heredity, anatomy, form and Judical Cology, life history, and ecology.

3.0 Biology and the Human Environment (for non-science dents)

importance of biology in today's world is discussed with licular 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 course is restricted to non-science students for whom it constitutes a science elective. However, should a student change to a science degree program after taking the course, credit would be granted for the course as an elective (i.e., it does not count toward the biology courses for the major or as a science credit).

Classes 3 hrs. a week. 2 semesters.

303.1(.2) Plant Biology

Prerequisité: BIO 200.0.

An introduction to the study of vascular plants, including plant structure, function, life history, adaptation, and evolution.

307.1(.2) Genetics

Prerequisite: BIO 200.0.

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.

308.1(.2) Biostatistics

Prerequisite: BIO 200.0, MAT 207.1(.2) or MAT 316.1(.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.

321.1(.2) Cell Biology I

Prerequisite: BIO 200.0.

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.

322.1(.2) General Physiology 1

Prerequisite: BIO 200.0.

An introduction to the essentials of vertebrate cellular physiology. Topics discussed will include metabolism, the nervous and endocrine systems, and muscles.

323.1(.2) General Physiology II

Prerequisite: BIO 322.1(.2).

An introduction to the essential physiology of vertebrates including blood, circulation, respiration, water-electrolyte regulation and digestion.

324.1(.2) Ecology

Prerequisite: BIO 200.0.

A study of modem ecology including energy flow, biogeochemical cycles, population biology and community structure. Field trips are an important part of the laboratory component.

325.1(.2) Biology of Protists

Prerequisite: BIO 200.0.

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.

326.1(.2) Diversity of Non-vertebrate Animals Prerequisite: BIO 200.0.

A study of free-living, non-vertebrate animals including the radiates, accelomates, 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.

327.1(.2) Anatomy and Functional Morphology of Vertebrates Prerequisite: BIO 200.0.

The study of vertebrates, with consideration of structural modifications for particular life styles. Laboratory instruction involves dissection of representative animals.

328.1(.2) Plant Taxonomy and Identification

329.1(.2) Principles of Systematics Prerequisite: BIO 200.0.

This course examines the fundamentals of animal and plant systematics including rules of nomenclature, the basis of classification, and the theory of phylogenetics.

331.1(.2) Population and Ecosystem Health

398.1(.2) Introduction to Microbiology Prerequisite: BIO 200.0.

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.

399.1(.2) Biology of Lower Plants Prerequisite: BIO 200.0.

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 BIO 325 and BIO 328 forms a suite of courses of value to biology students interested in ecology as well as those majoring in geography and environmental studies.

402.1(.2) Population Genetics Prerequisite: BIO 307.1(.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.

404.1(.2) Behavioral Ecology Prerequisite: BIO 324.1(.2)

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.

408.1(.2) Vertebrate Embryology Prerequisite: BIO 321.1(.2) and BIO 322.1(.2).

Early developmental processes involved in the transformation of the fertilized egg into a new individual:

411.1(.2) Animal Parasitology I

Prerequisite: BIO 325.1(.2) and BIO 326.1(.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 is vertebrates.

412.1(.2) Animal Parasitology II

Prerequisite: BIO 411.1(.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 the importance of zoonotic and epidemic diseases.

414.1(.2) Environmental Microbiology

Prerequisite: BIO 398.1(.2).

A course in the biology of microorganisms highlighting molecular biology (physiology and genetics), ecology, and the exploita in microorganisms by humans (biotechnology and industrial microbiology).

416.1(.2) Mycology I

Prerequisite: BIO 324.1(.2) and BIO 398.1(.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.

417.1(.2) Mycology II

Prerequisite: BIO 416.1(.2).

The uniqueness of fungal ultrastructure, physiology and genetically will be explored and the human application of this information be discussed under the heading of biotechnology.

418.1(.2) Plant Physiology

Prerequisite: BIO 303.1(.2) and BIO 321.1(.2).

The physiology of higher plants. Topics include photosynthes water and resource allocation, transpiration, photohormones, differential growth, photomorphogenesis, photoperiodism, and flowering.

419.1(.2) Molecular Biology

Prerequisite: BIO 307.1; BIO 398.1(.2), and CHE 344.1(.2).

Chemistry of genes and history of molecular biology. Structual 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.

420.1(.2) Cell Biology II

Prerequisite: BIO 321.1(.2).

An investigation of specific functions of the eukaryotic cell, particularly those that are important in multicellular organis as Topics include cell division, cell signaling, neurons, cells of the immune system, the extracellular matrix, cellular differentiation and cancer.

421.1(.2) Biology of Domesticated Plants

422.1(.2) Applied Ecology

Prerequisite: BIO 308.1(.2) and 324.1(.2).

This course introduces how ecological principles can be applied to human exploitation of natural resources. Topics include time and fish management, pest control, effects of pollution on ecosystems, and landscape ecology. The laboratory component exposes students to methods used in applied ecology.

423.1(.2) Evolution

Prerequisite: BIO 307.0.

The Darwinian natural selection hypothesis. History of biological evolution from the 16th century. The modern synthesis of

makes and natural selection. Laboratory data analysis and selection.

1(.2) Life History of Fishes Enquisite: BIO 329.1(.2).

bution. The laboratory portion of the course familiarizes the alents with representatives of world taxa and the fishes of Nova

5.1(.2) Ecology of Fishes Equisite: BIO 324.1(.2).

with and development, population biology, the role of fishes in patic communities, and the influence of human activities on are studied.

1(.2) Animal Tissues

Requisite: BIO 321.1(.2) and BIO 322.1(.2).

Introduction to the structure and function of animal tissues.

Boratory work will involve the interpretation of histological parations of representative vertebrate tissues.

Introduction to the fascinating world of insects. The anatomy, sology and taxonomy of this group will be examined. Lab will include field trips for collection of insects and exposure bethods for preservation and presentation of insect betions.

1.1(.2) Applied Entomology equisite: BIO 427.1(.2).

ect ecology and the relationship of insects to humans. Topics pered will include: insect biodiversity, morphological and avioral modifications for specific ecological roles and the pact of insects on human activities.

1(.2) Quaternary Palynology and the History of betation

EO 429.1(.2)]

equisite: BIO 303.1(.2) and GPY 203.1(.2) and 213.1(.2).

estudy of pollen grains from peat deposits, lake sediments moss polsters etc. enables the reconstruction of past batation and climates. This course will cover the techniques pollen extraction, the identification of plants from their pollen the reconstruction of plant communities from the discovered than. This will be related to climate change in the past. This will be of special value to ecologists, geographers and to entomologists (especially beekeepers), archaeologists, this is medicine and environmental studies students.

0.1(.2) Ornithology

requisite: BIO 324.1(.2).

bduction to bird biology that covers morphology, classification, listory, and behavior. Labs provide hands-on experience and implement lectures.

18.1(.2) Biology Field Course

requisite: BIO 308.1(.2), BIO 324.1(.2), and permission of pructor.

e design and practice of biological study of communities under donditions at selected sites in Nova Scotia. The main phasis is on how ecologists document the abundance of minisms and quantify the structure of a community.

psses 36 hrs., including lecture and field work in Nova Scotia

Note: Enrolment in this course is limited.

449.1(.2) Aquatic Parasitology

Prerequisite: BIO 411.1(.2) and BIO 412.1(.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.

450.1(.2) Diversity in Forest Ecosystems

Prerequisite: BIO 308.1(.2), BIO 324.1(.2), and prior written permission of instructor.

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.

490.1(.2) - 499.1(.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.

500.0 Research Thesis

Prerequisite: honors 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.

549.0 Honors Seminar

Prerequisite: honors standing.

Seminars followed by discussions based on recent advances in biology. In consultation with the honors advisor, the honors students will select and prepare the topics for presentation to biology faculty and students.

FORENSIC SCIENCES

This diploma program is housed in the Department of Biology with courses being developed for distance education through web-based offerings. Consult the undergraduate Faculty of Science portion of Section 3 of this Academic Calendar for details concerning requirements for admission, the program itself, and graduation. Information can also be obtained from the Program Coordinator.

The following courses are reserved exclusively for students officially accepted in the Diploma in Forensic Sciences Program at Saint Mary's.

FOR 200.1(.2) Basic Sciences for Forensics I

Prerequisite: official acceptance in Diploma in Forensic Sciences

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.

Classes 3 hrs, and lab/tutorial 3 hrs. a week. 1 semester.

FOR 201.1(.2) Basic Sciences for Forensics II Prerequisite: FOR 200.1(.2).

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 forensi

Classes 3 hrs. and lab/tutorial 3 hrs. a week. 1 semester.

FOR 300.1(.2) Application of Forensic Techniques Prerequisite: FOR 200.1(.2) and 201.1(.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, identif 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.

Classes 3 hrs. and lab/tutorial 3 hrs. a week. 1 semester.

Chemistry (CHE)

Chairperson, Associate Professor

Professors

Associate Professors

Assistant Professors

Adjunct Professors

Professors Emeriti

A. Piorko

C. Elson.

K. Vaughan

M. Lamoureux,

R. Singer

B. Bemo,

H. Jenkins,

C, Pye

K. Singfield

R. de Antueno,

D. Gamble

J. Murphy,

J. Young

The program of the Department of Chemistry is designed to satisfy two functions:

Fulfil requirements for the general degree of Bachelor of Science, the degree of Bachelor of Science with major, and the degree of Bachelor of Science (Honors).

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 major in chemistry consists of one of CHE 201.0, 202.0, or 203.0; and CHE 312.1(.2), 313.1(.2), 322.1(.2), 324.1(.2), 332.1(.2), 333.1(.2), 344.1(.2), 345.1(.2); and any two (2.0) 400-level credits in chemistry. Students are required to take a second credit (1.0) in Mathematics above the MAT 210.1(.2)/211.1(.2) level. Students may take two additional chemistry courses of their choice. Major students are also required to complete PHY 210.1(.2) and 211.1(.2) and these courses should normally be taken in Year 1.

The core program for an honors degree in chemistry consists of one of CHE 201.0, 202.0, or 203.0; and CHE 312.1(.2), 313.1(.2), 322.1(.2), 324.1(.2), 332.1(.2), 333.1(.2), 344.1(.2), 345.1(.2), 412.1(.2), 498.0, 500.0, and one of CHE 421.1(.2) or 422.1(.2) or 445.1(.2); one of CHE 432.1(.2) or 433.1(.2); one of CHE 443.1(.2) or 444.1(.2). Students are required to take one (1.0) course at the 400-level and up to two (2.0) additional chemistry courses of their choice. Honors students are also required to

complete PHY 210.1(.2) and 211.1(.2) and these courses should normally be taken in Year 1.

The core program for double majors consists of: one of CHE 201.0, 202.0, or 203.0; three (3.0) of CHE 312.1(.2), 313.1(.2) 322.1(.2), 324.1(.2), 332.1(.2), 333.1(.2), 344.1(.2), 345.1(.2), 373.1(.2), 374.1(.2); and two (2.0) 400-level credits.

The core program for double honors consists of: one (1.0) of CHE 201.0, 202.0 or 203.0; three (3.0) of CHE 312.1(.2), 313.1(.2), 322.1(.2), 324.1(.2), 332.1(.2), 333.1(.2), 344.1(.2) 345.1(.2); and

two (2.0) 400 level credits. In addition, it is strongly recommended that students in both double majors and double honors complete MAT 210.1 (.2)/211.1(.2) to fulfil the mathematics requirement, and PHY 210.1(.2) and 211.1(.2) as one of their science electives. Double honors students who choose to do a research thesis in chemistry will also take CHI 498.0 and 500.0. If they choose to do a research thesis in the other subject, they must take an additional (1.0) chemistry course.

Notes:

- Students who fail the laboratory component of a course will
- (ii) All of the following courses have a 3 hour per week lab component unless otherwise noted, i.e., CHE 220.1(.2)/221.1(... and 498.0.

010.0 Introduction to Chemistry

The fundamental laws and principles of chemistry are explored and applied in the study of selected non-metals, metals and the compounds.

Note: This is a preparatory course. It does not carry a credit value; therefore, it cannot be counted in the number of credit required for a degree, diploma or certificate.

201.0 General Chemistry for Physical Sciences Prerequisite: The equivalent of Nova Scotia Chemistry 12 Academic or CHE 010.0, and MAT 210.1(.2)/211.1(.2) to be taken concurrently.

An introduction to the chemistry of gases, liquids, and solids, Emphasis will be placed upon reaction stoichiometry, gas law chemical equilibrium and application of aqueous equilibria in first semester. In the second semester, an introduction to chemical bonding, thermodynamics, chemical kinetics, electrochemistry and organic chemistry will be presented. This course is designed for students in the physical sciences.

IB2.0 General Chemistry for Life Sciences

demic or CHE 010.0 or equivalent, and MAT 14.2/211.1(.2) or CSC 226.1(.2)/227.1(.2) to be taken currently.

htroduction to the chemistry of gases, liquids and solids.

phasis will be placed upon reaction stoichiometry, gas laws,
mical equilibrium and application of aqueous equilibria in the
semester. In the second semester, an introduction to
mical bonding, thermodynamics, organic chemistry and
chemistry will be presented. This course is designed for
dents in the life sciences.

3.0 General Chemistry for Engineers

Leading to the equivalent of Nova Scotia Chemistry 12 Leadernic or CHE 010.0 or equivalent, and MAT 0.1(.2)/211.1(.2) to be taken concurrently.

Introduction to the chemistry of gases, liquids and solids.

Introduction to the chemistry of gases, liquids and solids.

In phasis will be placed upon reaction stoichiometry, gas laws, amical equilibrium and application of aqueous equilibrium in the semester. In the second semester, an introduction to amical bonding, thermodynamics, reaction kinetics, and apperties of solutions will be presented. This course is designed attudents in engineering.

1(.2) Chemistry and Industry

Libertal Science is intended as an introduction to general chemistry students who have little background in science and libertal science and importance of libertal science will focus on the role and importance of libertal science.

te: This course is for non-science students for whom it stitutes a science elective. Science students cannot use this surse as a science elective.

Tesses 3 hrs. a week. 1 semester.

21.1(.2) Chemistry of Life

students who have little background in science and themselves. The course will focus on the role and importance of mistry in today's world. Topics may include chemistry and the pronment, chemistry and the medical sciences, or chemistry and material science.

Institutes a science elective. Science students cannot use this purse as a science elective.

basses 3 hrs. a week. 1 semester.

12.1(.2) Thermodynamics

requisite: CHE 201.0 or 202.0 or 203.0, and MAT 0.1(.2)/211.1(.2).

this introduction to Physical Chemistry, a study of the derlying physical principles that govern the properties and havior of chemical systems from a macroscopic viewpoint will undertaken. Topics covered will include: Laws of hermodynamics; Temperature; Work, Heat, Enthalpy; Entropy; harnot Cycle; Free Energy, Colligative Properties of Solutions; hase Equilibrium; Phase Diagrams of Pure Substances and himple Mixtures; Chemical Potentials and Chemical Equilibrium.

13.1(.2) Chemical Reaction Kinetics requisite: CHE 312.1(.2).

n this second course in Physical Chemistry, the focus will be on processes by which change occurs in chemical systems and the lates of these changes. The first part of the course examines procedular motion in gases and liquids and the mobility of ions in polytion. 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.

322.1(.2) Inorganic Chemistry I

Prerequisite: CHE 201.0 or 202.0 or 203.0.

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.

324.1(.2) Inorganic Chemistry II

Prerequisite: CHE 332.1(.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.

332.1(.2) Introductory Analytical Chemistry: Wet Methods [GEO 332.1(.2)]

Prerequisite: CHE 201.0 or 202.0 or 203.0.

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.

333.1(.2) Introductory Analytical Chemistry: Instrumental Methods

[GEO 333.1(.2)]

Prerequisite: CHE 332.1(.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.

344.1(.2) Organic Chemistry 1

Prerequisite: CHE 201.0 or 202.0 or 203.0.

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 emphasises the mechanistic approach to the reactivity of organic compounds and provides a thorough introduction to stereochemistry and nuclear magnetic resonance.

345.1(.2) Organic Chemistry IIA Prerequisite: CHE 344.1(.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.

346.1(.2) Organic Chemistry IIB Prerequisite: CHE 344.1(.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 emphasises 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.

373.1(.2) Introduction to Environmental Chemistry I Prerequisite: CHE 201.0 or 202.0 or 203.0.

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; vapor 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.

374.1(.2) Introduction to Environmental Chemistry II Prerequisite: CHE 373.1(.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.

375.1(.2) Marine Chemistry I

Prerequisite: CHE 201.0 or 202.0 or 203.0.

An introduction to chemical oceanography. Tracers in the sea and its sediments are used as an aid to deciphering the chemistry of the ocean. Topics discussed include: pathways (of chemicals) from the river mouth to the sea floor; factors influencing the distribution of sedimentary constituents; cycles of gases within the sea; cycles of metals in the sea; and rates of vertical mixing and sediment accumulation.

376.1(.2) Marine Chemistry II Prerequisite: CHE 375.1(.2).

The ocean is viewed as a chemical system. Chemical information is integrated with information on ocean sediments, ocean currents and organisms living in the sea. Topics discussed include: control mechanisms operating within the sea; movement of water through the deep sea; movement of water through the oceanic thermocline; glacial to interglacial changes in ocean chemistry; and the buildup of fossil fuel CO_2 in the atmosphere and the oceans.

412.1(.2) Quantum Chemistry

Prerequisite: CHE 312.1(.2) and 313.1(.2), MAT 310.1(.2) and 311.1(.2).

The basic principles of quantum physics are used to develop an understanding of atomic and molecular structure.

413.1(.2) Physical Chemistry

Prerequisite: CHE 312.1(.2) and 313.1(.2), MAT 310.1(.2) and 311.1(.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.

414.1(.2) Symmetry and Chemical Applications of Group Theory

Prerequisite: CHE 412.1(.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.

421.1(.2) Organometallic Chemistry Prerequisite: CHE 324.1(.2) (or equivalent).

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 organissynthesis and catalysis. Characterization of organometallic complexes using spectroscopic techniques (IR, Raman, NMR and ESR) and X-ray crystallography will also be covered.

422.1(.2) Advanced Topics in Inorganic Chemistry Prerequisite: CHE 324.1(.2) (or equivalent).

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 inorgan photochemistry.

432.1(.2) Instrumental Analysis I

Prerequisite: CHE 332.1(.2) and 333.1(.2).

Emphasis will be placed on i) separation techniques including high performance and gas chromatography; ii) modem electronical techniques including differential pulse voltammetry stripping analysis; iii) analogue circuits and devices and digital electronics.

433.1(.2) Instrumental Analysis II Prerequisite: CHE 332.1(.2) and 333.1(.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.

443.1(.2) Organic Reaction Mechanisms Prerequisite: CHE 345.1(.2).

A study of the more important mechanisms of reactions of organic molecules and the methods by which they are elucidapplications of kinetic data, isotope effects, linear free energy relationships, orbital symmetry control and acid and base catalysis.

444.1(.2) Synthesis in Organic Chemistry Prerequisite: CHE 345.1(.2).

A study of the principles involved in the planning and execute the synthesis of organic molecules. Laboratory experiments designed so that students learn to identify their products by use of spectroscopic and other techniques.

445.1(.2) Organic Spectroscopy Prerequisite: CHE 345.1(.2).

An introduction to the interpretation of ¹H and ¹³C nuclear magnetic resonance spectra. Infrared spectroscopy, mass spectrometry, and ultra-violet spectrophotometry will also be applied to the problems of organic and organometallic structed determination.

451.1(.2) Introductory Blochemistry Prerequisite: CHE 345.1(.2) or 346.1(.2).

This course reviews and/or presents an introduction to the chemistry and biochemistry of macromolecules such as protenzymes, simple and complex carbohydrates, lipids, nucleic acids, and coenzymes. A relationship between the molecular structure of a given macromolecule, its properties, and its

tentrates on the isolation, purification, and analysis of occurring macromolecules and includes study of their using micro chemical measurements.

Squisite: CHE 345.1(.2) or 346.1(.2).

purse presenting principles of metabolism of biomolecules and in energy production, formation of biosynthetic parates and metabolism of nucleic acids. Both catabolic and processes as well as transport of biomolecules within and organs are considered.

Selected Research Topics in Chemistry Selected Research Topics in Chemistry Selected Research Topics in Chemistry

seekly seminar course that will cover a broad range of search topics that are of topical relevance. Speakers will stude faculty from within and outside Saint Mary's University students will normally be expected to present two seminars.

Research Thesis

equisite: restricted to final year students in the honors

dents will carry out a research project under the direction of of the members of the Department and will prepare a thesis heir work. The thesis is presented orally.

6 hrs. a week (minimum). 2 semesters.

Ecommended Program

following programs are recommended by the Department of mistry for chemistry students taking the general science the degree with a major, or an honors degree.

heme A: General Science Degree with Chemistry

sar 1

CHE 201.0

MAT 210.1(.2)/211.1(.2)

one (1.0) credit non-chemistry science elective

one (1.0) credit in the humanities credit

EGL 201.1(.2) and one of 202.1(.2), 203.1(.2), or 204.1(.2)

tear 2

Two (2.0) credits from:

CHE 312.1(.2)/313.1(.2)

CHE 322.1(.2)/324.1(.2)

CHE 332.1(.2)/333.1(.2)

CHE 344.1(.2)/345.1(.2)/346.1(.2)

one (1.0) credit non-chemistry science elective

one (1.0) credit in the humanities

one (1.0) credit elective

bar 3

one (1.0) credit chemistry elective

one (1.0) credit chemistry elective

one (1.0) credit non-chemistry elective

one (1.0) credit non-chemistry elective

one (1.0) credit elective

Scheme B: Science Degree with a Major in Chemistry

CHE 201.0

PHY 210.1(.2) and 211.1(.2)

MAT 210.1(.2)/211.1(.2)

EGL 201.1(.2) and one of 202.1(.2), 203.1(.2), or 204.1(.2)

one credit (1.0) in the humanities

Teer 2

- CHE 312.1(.2)/313.1(.2)
- 2 CHE 344.1(.2)/345.1(.2)
- CHE 322.1(,2)/324.1(.2) or CHE 332.1(.2)/333.1(.2)

- 4. one credit (1.0) in mathematics
- 5. one credit (1.0) elective

Years 3 and 4

- 1. CHE 322.1(.2)/324.1(.2) or CHE 332.1(.2)/333.1(.2)
- 2. two (2.0) credits from:

CHE 412.1(.2) CHE 433.1(.2)

CHE 413.1(.2) CHE 443.1(.2)

CHE 414.1(.2) CHE 444.1(.2)

CHE 421.1(.2) CHE 445.1(.2)

CHE 422.1(.2) CHE 451.1(.2)

CHE 432.1(.2) CHE 452.1(.2)

 Electives in order to fulfil the requirements outlined in the Faculty of Science regulations, up to two (2.0) credits of which can be in chemistry (7.0)

Scheme C: Science Degree with Honors in Chemistry (Note: Year 1 is as in Scheme B.)

Year 2

- 1. CHE 312.1(.2)/313.1(.2)
- 2. CHE 344.1(.2)/345.1(.2)
- 3. CHE 322.1(.2)/324.1(.2) or CHE 332.1(.2)/333.1(.2)
- 4. MAT 310.1(.2)/311.1(.2)
- 5. one (1.0) credit in the humanities

Year 3

- 1. CHE 332.1(.2)/333.1(.2) or CHE 322.1(.2)/324.1(.2)
- 2. CHE 412.1(.2)
- 3. CHE 421.1(.2) or 422.1(.2) or 445.1(.2)
- 4. CHE 432.1(.2) or 433.1(.2)
- 5. CHE 443.1(.2) or 444.1(.2)
- 6. one (1.0) credit 400-level chemistry
- one (1.0) credit non-chemistry elective

Year 4

- 1. CHE 498.0
- 2. CHE 500.0
- 3. one (1.0) credit non-chemistry science elective
- 4. one (1.0) credit elective
- 5. one (1.0) credit elective

Scheme D: Co-operative Education in Chemistry (COEC) Available at both the general and major/honors 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 honors) and with the added qualification of "Co-operative Education".

Further details can be found under the Faculty of Science Cooperative Education regulations in Section 3 of this Calendar.

Scheme E: Double Major and Double Honors in Chemistry and Physics

Detailed requirements for these programs are found above in the Department of Astronomy and Physics.

Commercial Law (CML)

These courses are administered by the Department of Accounting.

Coordinator

A. Mussett

201.1(.2) Legal Aspects of Business - Part I

Prerequisite: ECO 201.1(.2) and 202.1(.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.

202.1(.2) Legal Aspects of Business - Part II Prerequisite: CML 201.1(.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.

601.1(.2) Commercial Law

Prerequisite: completion of all required 500-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 (COM)

These courses are administered by the Department of Marketing.

293.1(.2) Managerial Communications Prerequisite: EGL 201.1(.2).

This course emphasizes business writing skills and prepares students to communicate effectively in a business environment. Students use word processors to write memoranda, letters, reports, resumes, and other business documents. The major focus of the course is on written communication skills and strategies.

394.1(.2) Oral Communications and Presentation Techniques Prerequisite: COM 293.1(.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.

475.1(.2) Advanced Managerial Communications Prerequisite: COM 293.1(.2).

This course will help you deal effectively with the complexities of

workplace communications and to develop communication skill through case analysis, strategic planning, and problem-solving the course, you will engage in such activities as making oral presentations; conducting interviews; negotiating agreements; producing commercial messages; writing letters, memos, presented as and short reports; and using electronic media.

The following course is available only to students registered the Master of Business Administration Program and with permission of the MBA Director to students registered in a master's programs.

675.1(.2) Advanced Managerial Communications
Prerequisite: completion of all required 500-level MBA courses a
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 the course, you will engage in such activities as making oral presentations; conducting interviews; negotiating agreements a producing commercial messages; writing letters, memos, presented as and short reports; and using electronic media.

Classes and lab 3 hrs. each a week. 1 semester.

Economics (ECO)

Chairperson, Professor Professors S. Amirkhalkhali

P. Arya, A. Dar, E. Doak,

Associate Professors
A. Akban
N. Sharif
Assistant Professors
M. Raymo

A. Harvey, M. MacDonald, A. Mukhopadhyay A. Akban, S. Novkovic, N. Shanf M. Raymond, J. Tahen **Adjunct Professor**

M. Foster, J. Kah, A. Ntoko

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

bute them for consumption, now and in the future, among mous people and groups in society." (Paul A. Samuelson)

nomics borders on other academic disciplines, such as science, sociology, psychology, anthropology and mess administration. It also draws heavily on the study of Mory, statistics and mathematics.

ments who desire some minimum understanding of economics mcouraged to consider taking one or more courses at the bevel. Entrance into higher level courses ordinarily requires a Mear of principles of economics, but this may be waived with poroval of the Department.

Economics Department is able to offer students with a interest in economics the opportunity to undertake some scentration beyond the core of required courses in the wing areas and associated courses.

mey and Banking: ECO 307.1(.2), 407.1(.2) blic Finance: ECO 318.1(.2), 319.1(.2)

mational: ECO 365.1(.2), 413.1(.2), 414.1(.2)

Intitative: ECO 302.1(.2), 303.1(.2), 403.1(.2), 409.1(.2) n-Regional: ECO 324.1(.2), 325.1(.2), 430.1(.2), 450.1(.2)

tural Resources and Environment: ECO 361.1(.2), 362.1(.2),

parative Systems: ECO 315.1(.2), 323.1(.2)

Benefit Analysis and Health: ECO 364.1(.2), 366.1(.2) and Development: ECO 306.1(.2), 310.1(.2), 317.1(.2),

1(.2), 410.1(.2)

h

OF

our: ECO 341.1(.2), 340.1(.2)

strial Organization: ECO 316.1(.2)

theory courses: ECO 312.1(.2), 400.1(.2), 401.1(.2),

1(.2), 405.1(.2), 412.1(.2)

butents who desire a major in economics are encouraged to in an appropriate program under the guidance of a faculty isor. There are two general programs: (1) Bachelor of Arts a major in economics, and (2) Bachelor of Commerce with a or in economics.

former requires a total of fifteen (15.0) credits. The latter squires a minimum of twenty (20.0) credits. See Faculty of Arts Faculty of Commerce, Section 3 of this Calendar, for the requirements for these degrees.

mardless of the degree sought, the Department of Economics buires that the program of study leading to a major in economics dude the following:

Nova Scotia Grade 12 MAT 441 or 442.

EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2).

One (1.0) credit in university mathematics beyond the level of culty of Nova Scotia Grade 12 Mathematics or equivalent. SC/ECO 205.1(.2) and MSC 225.1(.2), which are required of all schelor of Commerce students, and recommended for all behelor of Arts majors in economics, satisfy this requirement.)

One (1.0) credit in the humanities (classics, history, osophy and religious studies), or languages (English or modem aguages). In special circumstances, with the permission of the irperson, all or part of this requirement may be fulfilled from nong the following: ECO 306.1(.2); 312.1(.2); 315.1(.2); 3.1(.2); 406.1(.2); and 412.1(.2). Philosophy 200.0 does not this requirement.

One (1.0) credit from the social sciences other than Conomics.

The following economics courses: BCO 201.1(.2) Principles of Economics: Micro

BCO 202.1(.2) Principles of Economics: Macro

BCO 206.1(.2) Introduction to Quantitative Methods for Economists II

MSC 206.1(.2) Introduction to Quantitative Methods for Commerce II

ECO 207.1(.2) Introductory Statistics for Economics or MSC 207.1(.2) Introductory Statistics for Commerce

ECO 300.1(.2) Intermediate Microeconomic Theory

ECO 301.1(.2) Intermediate Macroeconomic Theory

ECO 400.1(.2) Advanced Microeconomic Theory or ECO

401.1(.2) Advanced Macroeconomic Theory

4 additional half-credit economics electives (2.0 credits). In total. students must complete two half courses, (1.0 credit) at the 400level, including ECO 400.1(.2) or 401.1(.2)

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.

Suggested Courses Leading to a Bachelor of Arts Degree with a Major in Economics

Year 1

- ECO 201.1(.2) and 202.1(.2) 1
- 2. Mathematics and/or computing science (see note ii below) (1.0 credit)
- 3. EGL 201.1(.2) and one of EGL 203.1(.2) or 204.1(.2)
- Social science other than economics (e.g., political science. anthropology, sociology, geography, or psychology) (1.0 credit)
- Humanities or language [e.g., classics, history, English or modem languages, philosophy (not PHI 200.0), religious studies) (1.0 credit)

Year 2

- ECO/MSC 206.1(.2) and ECO/MSC 207.1(.2) 1.
- ECO 300.1(.2) and ECO 301.1(.2) 2.
- 3. One half (0.5) credit ECO elective
- Electives (2.5 credits) 4.

Year 3

- ECO 400.1(.2) or ECO 401.1(.2)
- ECO electives (2.0 credits)
- Electives (2.5 credits) 3.

Notes:

Students are reminded that the electives should be chosen in such a way as to fulfil the Faculty of Arts requirements. (See Section 3 of this Calendar.)

(ii) Students taking ECO/MSC 205.1(.2) and MSC 225.1(.2) to satisfy requirement c above, should take ECO/MSC 205.1(.2) and 206.1(.2) in Year 1 and ECO/MSC 207.1(.2) and MSC 225.1(.2)

For suggested courses for a Bachelor of Commerce degree with a major in economics, see the Faculty of Commerce Section of this Calendar.

Year 4: Honors

The Department of Economics offers honors programs to students enroled in either the Faculty of Arts or the Faculty of Commerce. Descriptions of the general requirements for the degrees of Bachelor of Arts (Honors) and of Bachelor of Commerce (Honors) are contained in Section 3. In addition to these general requirements, for graduation with honors in economics, all students must comply with the following:

- Students must satisfy the applicable requirements for a major in economics as outlined on the preceding pages.
- The ten (10.0) credits in economics presented for honors must include:
- (i) ECO 201.1(.2), ECO 202.1(.2), ECO/MSC 206.1(.2), and ECO/MSC 207.1(.2), or equivalent;
 - (ii) ECO 300.1(.2) and ECO 400.1(.2);
 - (ili) ECO 301.1(.2) and ECO 401.1(.2);

(iv) ECO 302.1(.2), ECO 303.1(.2), and ECO 403.1(.2), or one and a half (1.5) credits from the Mathematics and Computing Science Department with the approval of the Chairperson of the **Economics Department**;

(v) ECO 498.1(.2);

(vi) ECO 499.1(.2) or another advanced economics half credit course (0.5) approved by the Chairperson of the Department:

(vii) either ECO 306.1(.2), ECO 310.1(.2), ECO 312.1(.2), ECO 315.1(.2), ECO 323.1(.2), ECO 406.1(.2), ECO 412.1(.2), or another economics half-credit course (0.5) approved by the Chairperson:

(viii) ECO 404.1(.2) or ECO 405.1(.2).

- c. With the approval of the Chairperson of the Economics Department, a student may be permitted to substitute up to two (2.0) credits from a related subject area as part of the ten (10.0) credits in economics presented for honors.
- d. Commerce students doing honors in economics are permitted to count one (1.0) economics credit at the 300 level or above as a non-commerce elective.
- e. The recommended course selection and sequence for the degree of Bachelor of Commerce (Honors: Economics) can be found in the Bachelor of Commerce section of this Calendar.

201.1(.2) Principles of Economics: Micro
General price theory, theory of the firm, market structure, production, cost, revenue and profit maximization, theory of distribution.

202.1(.2) Principles of Economics: Macro
National income determination, national accounting, business
fluctuations, money and banking, international economics,
economic growth.

205.1(.2) Introduction to Quantitative Methods for Economists I

Prerequisite: Nova Scotia Grade 12 MAT 441 or 442; or MAT 050.1(.2)/051.1(.2); or equivalent.

This course illustrates applications of basic mathematical techniques in break-even analysis, data manipulation, aggregate planning and financial planning. Topics include linear functions, linear inequalities, the simplex method, compound interest, annuities and depreciation.

Note: This is the same course as MSC 205.1(.2).

206.1(,2) Introduction to Quantitative Methods for Economists II

Prerequisite: Nova Scotia Grade 12 MAT 441 or 442; or MAT 050.1(.2)/051.1(.2); or equivalent.

The purpose of this course is to provide a basic understanding of the dynamics of non-linear functions as they relate to the use of scarce resources for profit maximization. Students will be exposed to the basic methods of calculus and the basic concepts of probability as they relate to decision making in an uncertain environment.

Note: This is the same course as MSC 206.1(.2).

207.1(.2) Introductory Statistics for Economists Prerequisite: ECO 206.1(.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 accounting, economics, marketing, management, finance and production.

Note: This is the same course as MSC 207.1(.2).

300.1(.2) Intermediate Microeconomic Theory Prerequisite: ECO 201.1(.2) and either ECO 206.1(.2) or permission of instructor.

Theory of consumer behavior and demand, theory of product and cost, behavior of the firm, theory of price and output und different market structures, and the theory of factor markets,

301.1(.2) Intermediate Macroeconomic Theory Prerequisite: ECO 202.1(.2) and either ECO 206.1(.2) or permission of instructor.

Measurement of macroeconomic variables; models of aggregincome and price determination; unemployment and inflation macroeconomic policy debates.

302.1(.2) Mathematical Economics

Prerequisite: ECO 201.1(.2) and 202.1(.2); and ECO 206.1(.2) equivalent.

An introduction of the role of mathematics in economic analy Mathematical topics include linear algebra, partial differential implicit function theorems and comparative statics analysis, unconstrained and constrained optimization theory.

303.1(.2) Intermediate Economic Statistics Prerequisite: ECO 207.1(.2) or equivalent.

A further study of the basic concepts of statistics and its application to the solution of business and economic problem review of probability, random variables and their distribution, sampling and sampling distributions, normal and associated distribution, statistical inference, simple and multiple regressional related topics.

Note: This is the same course as MSC 303.1(.2).

306.1(.2) North American Economic History Prerequisite: ECO 202.1(.2) and 300.1(.2); or ECO 201.1(.2) a 202.1(.2) and permission of the instructor; or 1.5 credits in his and permission of instructor.

This course surveys growth, fluctuation and structural changes 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.

307.1(.2) Money and Banking Prerequisite: ECO 201.1(.2) and 202.1(.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.

310.1(.2) Development Economics Prerequisite: ECO 201.1(.2) and 202.1(.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.

312.1(.2) History of Economic Thought Prerequisite: ECO 201.1(.2) and 202.1(.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 idea of these times to contemporary thinking.

315.1(.2) Comparative Economic Systems Prerequisite: ECO 201.1(.2) and 202.1(.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

mance of existing systems (e.g., Western managed yugoslavian market socialism and Eastern European socialism) will also be analyzed.

1(.2) Industrial Organization equisite: ECO 201.1(.2) and 202.1(.2).

course begins by laying out the arguments for competitive that processes and then proceeds to investigate the minants of real-world industrial market structures, the payor of firms, and efficiency in resource allocation.

1.1(.2) The Economic History of Europe Requisite: ECO 201.1(:2) and 202.1(.2).

examination of the economic evolution of Modern Europe, with a concentration on the period from 1750 to the present. The curse does not deal with the chronological development but the emphasizes those aspects of history which are reflected in temporary institutions, practices and policies.

1.1(.2) Public Finance: Expenditure equisite: ECO 201.1(.2) and 202.1(.2).

basis on the theory of government expenditures. Topics may public goods, externalities, income redistribution, and fiscal traism.

9.1(.2) Public Finance: Taxation equisite: ECO 201.1(.2) and 202.1(.2).

phasis on government revenues. Topics may include tax dence theory, personal income taxation, sales and excise s, property tax, corporation income tax, public debt, and bilization policy.

E2-1(.2) Canadian Economic Issues requisite: ECO 201.1(.2) and 202.1(.2).

course deals with economic issues relevant to business and bilic policy. Topics may include regulation of industry and impetition policy, the labour market and collective bargaining, wirenmental policy, public debt, fiscal federalism, stabilization cy, economic growth, and other issues of current interest.

1.1(.2) Economies in Transition requisite: ECO 201.1(.2) and 202.1(.2).

but its course treats problems of economic transition through case but its of the countries undergoing the transformation from plan to but it. In particular, it offers the treatment of micro and macro but its problems of transition from socialist central planning to burk et economy. The main focus is on issues of property rights, valization, and institutional and legal framework. Besides those, berent approaches to transition itself will be discussed, namely a shock therapy vs. gradualism, their costs and benefits.

E24.1(.2) The Atlantic Economy requisite: ECO 201.1(.2) and 202.1(.2).

by sis of the structure, development and performance of the conomy of the Atlantic region. Topics covered include: economic covered include: economic covered include: economy and the region, current structure of the regional economy and the of economic development, sub-regional differences in commic structure and performance, external trade linkages, mographic and labour market characteristics, the role of the regional differences in the development process.

235.1(.2) Atlantic Economy Seminar Serequisite: ECO 201.1(.2) and 202.1(.2).

This course will examine in detail a small number of current bon omic issues in the Atlantic region. General topic areas, from which specific issues may be chosen, include: the impact on the bottom 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.

340.1(.2) Human Resource Economics Prerequisite: ECO 201.1(.2) and 202.1(.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.

341.1(.2) Labour Economics Prerequisite: ECO 201.1(.2) and ECO 202.1(.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.

Note: Students with credit for ECO 339.1(.2) will not be given credit for this course.

349.1(.2) Women and the Economy [WMS 349.1(.2)]

Prerequisite: ECO 339.1(.2) or permission of instructor.

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.

361.1(.2) Fisheries Economics
Prerequisite: ECO 201.1(.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.

362.1(.2) Natural Resource Economics Prerequisite: ECO 201.1(.2) and 202.1(.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.

Note: Students with credit for ECO 360.1(.2) will not be given credit for this course.

363.1(.2) Environmental Economics Prerequisite: ECO 201.1(.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 fishenes, 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.

Note: Students with credit for ECO 360.1(.2) will not be given credit for this course.

364.1(.2) Cost-Benefit Analysis

Prerequisite: ECO 201.1(.2) and 202.1(.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 fishenes.

365.1(.2) International Economic Issues Prerequisite: ECO 201.1(.2) and 202.1(.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.

366.1(.2) Health Economics

Prerequisite: ECO 201.1(.2) and ECO 202.1(.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 (phyate and public), and health care demanders, as well as questions relating to alternative modes of health care financing, with emphasis on Canadian issues.

400.1(2) Advanced Microeconomic Theory

Prerequialte: ECO 206.1(.2) or equivalent and ECO 300.1(.2).

Advanced treatment of the theories of consumer behavior and the firm with special emphasis on duality theory; general equilibrium theory; welfare economics. Other topics may include choice under uncertainty and game theory.

Note: Students who have received a credit for ECO 440.1(.2) will not be permitted to retake this course and receive an additional credit.

401.1(.2) Advanced Macroeconomic Theory

Prerequisite: ECO 206.1(.2) or equivalent and ECO 301.1(.2).

Microeconomic foundations of macroeconomics; inflation; interest rates; exchange rates; labour markets and unemployment; investment and real business cycles; economic growth.

Note: Students who have received a credit for ECO 441.1(.2) will not be permitted to retake this course and receive an additional credit.

403.1(.2) Econometrics

Prerequisite: ECO 303.1(.2) or permission of instructor.

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.

404.1(.2) Special Topics In Microeconomics Prerequisite: ECO 400.1(.2).

Selected topics in microeconomics chosen for rigorous, in-depastudy from the following areas: input markets; general equilibrium; welfare economics; intertemporal choice; information theory. Topics may vary depending on the interests of the students and the instructor.

405.1(.2) Special Topics In Macroeconomics Prerequisite: ECO 401.1(.2).

Selected topics in macroeconomics chosen for rigorous, in-dept 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.

406.1(.2) Canadian Economic History In an International Context

Prerequisite: ECO 306.1(.2) or permission of instructor.

This course provides an intensive examination of selected issue 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.

407.1(.2) Monetary Economics

Prerequisite: ECO 201.1(.2), 202.1(.2), 300.1(.2) and 301.1(.2) permission of instructor.

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.

409.1(.2) Econometric Modelling and Forecasting Prerequisite: ECO 403.1(.2).

Theory and application for econometric models and their estimation. Emphasis will be placed on the techniques of econometric model-building and forecasting. Topics such as simultaneous equation models, time series models and forecasting will be included.

410.1(.2) Issues in Economic Development Prerequisite: ECO 300.1(.2) and 310.1(.2).

Specific problems in economic development; emphasis on government policies, foreign aid, foreign trade and their impact underdeveloped countries.

412.1(.2) History of Modern Economic Thought Prerequisite: ECO 300.1(.2) and 301.1(.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. Particulatention is paid to common themes and sources of divergence among economic doctrines.

413.1(.2) International Macroeconomics and Finance Prerequisite: ECO 201.1(.2) and 301.1(.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,

shange rate determination and exchange rate and stabilization

state: Students who have received a credit for this course when it soffered as ECO 313.1(.2) will not be permitted to retake this state and receive an additional credit.

4.1(.2) International Trade requisite: ECO 300.1(.2).

Introduction to the theory of international trade: comparative mantage, modern refinements, gains from trade, empirical avance of trade models, tariffs and protection, economic agration, trade and growth.

Students who received a credit for this course when it was liered at the 300 level will not be permitted to retake the course and receive an additional credit.

1(.2) Regional Economics

equisite: ECO 301.1(.2) or permission of instructor if ECO 0.1(.2) has been completed.

pramination of the theoretical basis of interregional growth and sparities, methods of regional analysis and evaluation of policies of programs affecting regions. Topics include the nature and assurement of regional disparities, regional growth theory, regional trade and mobility theory, regional economic policy.

Students who received a credit for this course when it was sered at the 300 level will not be permitted to retake the course receive an additional credit.

50.1(.2) Urban Economics requisite: ECO 300.1(.2).

conomics of an urban economy: why it grows and how it copes in growth. Urban policies for transportation, housing, labour barkets and public services are examined. Theories of location, formation and urban spatial structure are examined.

tote: Students who received a credit for this course when it was bered at the 300 level will not be permitted to retake the course and receive an additional credit.

\$0.1(.2) Issues in Economic Development

ris course analyzes selected aspects of economic velopment. Issues related to debt, foreign direct investment, breign aid, technology, late industrialisation, poverty and cricultural development may be covered. The course may take a secific regional focus.

275.1(.2) Business Consultancy

perequisite: ECO 300.1(.2) and permission of the Chairperson.

his course allows students to gain business experience by brking for clients of the Saint Mary's University Business evelopment Centre.

Pludent groups receive a project proposal outlining the equirements, information needs and services they will provide the client during the semester. Projects generally take the form a business plan, market study, or other business-related function and often involve financial projections. Each project the bovides students an opportunity to use skills learned in business tourses and to understand the interrelationship between marketing, accounting, finance, and management in a practical susiness setting. Under supervision, students prepare a toofessional report and the final presentation that communicate the project's results for the client.

work groups often include students from different business' sciplines and are assigned based upon the needs of the project. Proups schedule their preferred meeting times but are required meet a minimum of three hours each week. For more

information see http://www.stmarys.ca/smubdc.

Internship. 1 semester.

490.1(.2) Seminar in Economics

Prerequisite: ECO 300.1(.2) and 301.1(.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.

492.1(.2) Directed Study

Prerequisite: ECO 201.1(.2) and 202.1(.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.

498.1(.2) Research Seminar in Economics

Prerequisite: ECO 300.1(.2) and ECO 301.1(.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.

499.1(.2) Honors Project in Economics

Prerequisite/corequisite: admission to the honors program (thesis option) and completion of ECO 498.1(.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.

501.1(.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.

600.1(.2) Issues in Industrial Economics

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

This course deals with such topics as competition policy, technological change in industry, behavior under uncertainty, and the economics of regulation. It draws on theories of industry structure, conduct and performance, and emphasizes applications in the Canadian context.

609.1(.2) Business Forecasting

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

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.

611.1(.2) Sustainable Resource Management Prerequisite: completion of all 500-level MBA courses or permission of MBA Director.

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 analysing 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.

620.1(.2) Issues In Public Finance and Fiscal Policy
Prerequisite: completion of all required 500-level MBA courses or
permission of MBA Director.

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.

622.1(.2) Managerial Economics and Public Policy Issues Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

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.

663.1(.2) Economics of Environment Management
Prerequisite: completion of all required 500-level MBA courses or
permission of MBA Director.

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 isues is also undertaken.

665.1(.2) International Economics

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

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.

690.1(.2) Seminar In Economics

Prerequisite: completion of all required 500-level MBA courses a permission of MBA Director.

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.

692.1(.2) Directed Study

Prerequisite: completion of all 500-level MBA courses or permission of MBA Director, Department Chairperson, and instructor.

This course supplements and provides an alternative to the regular economics courses in order to meet the special needs a 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.

699.0 Research Project in Economics

Corequisite: MBA 697.1(.2) or permission of MBA Director.

Each student is required to complete a project involving the practical application of the research concepts and techniques usin economics, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

Independent study.

Education (EDU)

Acting Dean Associate Professor Michael J. Larsen 8. Davis

Currently the Saint Mary's University Faculty of Education is not admitting students to any of its Bachelor of Education, Master of Arts (Education) or Master of Education programs. Students who have been accepted and are currently pursuing their studies will continue to follow the rules and regulations delineated in the Academic Calendar in existence when they began their program. In addition, the Acting Dean of Education is available for consultation as required.

Undergraduate Elective Courses

A number of courses are now available as electives to undergraduate students interested in exploring aspects of education. These are described in Section 5 of this *Academic Calendar*.

301.0 Philosophy of Education (PHI 359.0)

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 constitute 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.

305.1(.2) Perspectives on Schooling

Prerequisite: at least 5.0 university credits or permission of instructor.

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. That 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.

306.1(.2) Schooling and Society Prerequisite: EDU 305.1(.2).

course continues the examination of the role of the teacher school and the school in society begun in EDU 305.1(.2).

Storical and comparative perspective is used to explore being as a career and the school as an increasingly central storic of developed societies.

Philosophical Issues in Education Paguisite: EDU 301.0.

examination of controversial issues in education through thate informed by a philosophic analysis of concepts. Topics wered in this seminar course will include the nature of weledge and belief, teaching and indoctrination, theory and factice, multiculturalism and nationalism, the rights and interests thidren, their parents, and the state.

baching English as a second or foreign language. These burses may be taken by those qualified to enrol in Master's leducation courses who wish to upgrade their teaching salifications or to be introduced to the principles and lactices of second or foreign language pedagogy.

55.0 Curriculum and instruction in Teaching English as a lacond or Foreign Language

Literated for teachers of English as a second or foreign language SSL/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 the language teaching, the evaluation of popular teaching teaching teaching, the evaluation of popular teaching teaching, the evaluation, integrated language lacking, ESL/EFL in the content areas, and individual struction.

B57.0 Principles of Language Acquisition for Education

intended primarily for teachers of English as a second or foreign inguage (ESL/EFL), this course focuses on the nature of inguage acquisition. An overview of first language acquisition, including the written language, is followed by a detailed in invariant in the variables involved in the acquisition of an indictional language by older learners.

658.1(.2) Pedagogical Grammar for ESL Teachers: Theory and Practice

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.

659.1(.2) Seminar and Practicum in Teaching English as a Second/Foreign Language

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.

661.1(.2) Language, Culture, and Education

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 interculfural education.

Engineering (EGN)

Professors

Associate Professor

D. Swingler,

P. Boyle, V. Sastry,

V. Tamawski

D. Van Dyer

Details of the program requirements for Engineering are belineated in Section 3 of this Calendar.

203.1(.2) Engineering Mechanics (Statics) Perequisite: MAT 210.1(.2)/212.1(.2) (concurrently).

Fundamental concepts and principles of mechanics, statics of larticles, equivalent force systems, equilibrium of rigid bodies, large forces, centroids, centre of gravity, moments of inertia.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

204.1(.2) Computer Methods for Engineers Prerequisite: Nova Scotia Pre-calculus Mathematics 12 Reademic or MAT 010.1(.2)/011.1(.2) and Nova Scotia Grade 12 Physics Academic or PHY 011.0, or equivalents.

This course introduces students to computer tools and lechniques for the solution of common engineering problems. Software methods include C language programming, MathCad, preadsheets, 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.

206.1(.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.

209.1(.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.

301.1(.2) Dynamics

Prerequisite: MAT 303.1(.2), EGN 203.1(.2), and EGN 204.1(.2).

Rectilinear and curvilinear kinematics using cartesian, normaltangential, 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.

303.1(.2) Fluid Mechanics

Prerequisite: MAT 303.1(.2), EGN 203.1(.2), and EGN 204.1(.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.

304.1(.2) Mechanics of Deformable Bodies Prerequisite: MAT 303.1(.2) and EGN 203.1(.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.

305.1(.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.

306.1(.2) Engineering Thermodynamics

Prerequisite: PHY 210.1(.2) and 211.1(.2); also MAT 303.1(.2) (concurrently).

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.

307.1(.2) Engineering Design II

Prerequisite: EGN 206.1(.2) and 204.1(.2).

The work of EGN 206.1(.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.

308.1(.2) Electric Circuits

Prerequisite: PHY 210.1(.2) and 211.1(.2); and MAT 303.1(.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: Kirchoff'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.

309.1(.2) Probability and Statistics for Engineers Prerequisite: MAT 210.1(.2) and 212.1(.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.

310.1(.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), spreadsheel and databases, and will be taught how to produce business letters, proposals, reports and oral presentations in a profession manner.

311.1(.2) Circuit Analysis (Circuits II) Prerequisite: ENG 308.1(.2).

This course builds on the introduction to electric circuits in EGN 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-phrase 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 (EGL)

Chairperson, Professor **Professors**

Associate Professors

W. Katz

C. Byrne, M. Larsen,

R. MacDonald,

K. MacKinnon,

A. Seaman, G. Thomas

E. Asp, J. Baker,

M. Harry, D. Kennedy,

R. Perkin, T. Whalen

T. Heffeman, J. Hill,

R. Hulan,

G. Stanivukovic

S. Jagne

K. Tudor

Introductory English

Adjunct Professor

Professor Emeritus

EGL 201.1(.2), English Composition, and EGL 203.1(.2)/204.1(1 An Introduction to Literature I/II, are designed to meet the varied needs of students entering the University from junior or senior matriculation. They satisfy the requirement for an English course stipulated by the Faculties of Arts, Commerce and Science.

Assistant Professor

B. Bartlett,

U. Esonwanne.

ents in the Faculties of Science and Commerce MUST take 201.1(.2) and either EGL 203.1(.2) or EGL 204.1(.2) whereas ments in the Faculty of Arts can select any two of EGL

(2), 203.1(.2), and 204.1(.2). Composition courses are into many sections to ensure as much individual attention much student as possible. Classes meet three hours per week.

(i) Students who have already passed EGL 202.1(.2) (no mer being offered) can substitute this for either EGL 203.1(.2)

Saint Mary's will not award a credit(s) for the designation redit/course" on transfer course(s).

Legan ced Courses

standard prerequisites for entrance to courses above the 200 are a pass in any two of EGL 201.1(.2), 202.1(.2), 203.1(.2), 204.1(.2). The Department recommends that students landing to major in English choose EGL 203.1(.2) and EGL 1(.2) as their 200 level courses. For additional prerequisites some courses, see the individual course descriptions.

advanced courses meet three hours per week.

Major Program

standards wishing to major in English must complete, in addition to of EGL 201.1(.2), Composition, EGL 203.1(.2), Introduction to rature I, or EGL 204.1(.2), Introduction to Literature II, six (6.0) in the second year, they must complete the invalent of three (3.0) credits at the 300 level, at least two (2.0) bedits of which must be chosen from among the following burses:

- EGL 307.0 Literary Traditions in English

- EGL 308.1(.2) Development of English Prose Style, or EGL 311.1(.2) Modem English Language;

EGL 323.1(.2) Practical Criticism, or EGL 324.1(.2) Introduction to Theory:

EGL 341.1(.2) Introduction to Drama I, or EGL 342.1(.2) Introduction to Drama II;

EGL 391.1(.2) Study of Short Fiction, or EGL 392.1(.2) Study of the Novel:

EGL 393.1(.2) Study of Poetry.

what this means is that the student will complete four half-credit burses (2.0 credits) within the areas of linguistics, poetics, man, narrative fiction, and literary traditions and one (1.0) credit any other area available at the 300 level. A student must implete the sequence with an average grade of C or better in inder to continue in the major program.

in the third year, students will complete a further three (3.0) bedits at the 400 level.

The Minor Program

Iminor in English consists of at least four (4.0) credits in English, at least 2.0 of which must be at the 300 level or above. Students may also minor in creative writing or linguistics.

budents who declare a minor in creative writing must take at least two (2.0) credits in creative writing in at least two of the four penres offered (fiction, poetry, drama and non-fiction). Students are also required to take two (2.0) more English credits beyond the 200 level.

dents who wish to major in English and minor in creative miting must take 8.0 English courses above the 200 level and fulfil the requirements of both programs. Dr. Brian Bartlett is the Creative Writing Coordinator.

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 three (3.0) credits in English or at the end of their econd university year.

While students are encouraged to enrol 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.

Honors in English consists of ten (10.0) credits. Students who seek admission to the honors program must satisfy:

the general requirements set out by the Faculty of Arts;

two of the following courses - EGL 201.1(.2), Composition, b. EGL 203.1(.2), Introduction to Literature I, or EGL 204.1(.2), Introduction to Literature II;

three (3.0) credits at the 300 level. These should include two (2.0) credits from the following list of core courses:

(i) EGL 307.0, Literary Traditions in English;

(ii) either EGL 308.1(.2), Development of English Prose Style, or EGL 311.1(.2), Modem English Language;

(iii) either EGL 323.1(.2), Practical Criticism, or EGL

324.1(.2), Introduction to Theory;

(iv) either EGL 341.1(.2), Introduction to Drama I, or EGL 342.1(.2), Introduction to Drama II;

(v) either EGL 391.1(.2), Study of Short Fiction, or EGL 392.1(.2), Study of the Novel;

(vi) EGL 393.1(.2), Study of Poetry;

plus one (1.0) more credit at the 300 level; and

a further six (6.0) credits at the 400 level or above. In. choosing their 400-level courses, students must satisfy the following area requirements:

Medieval and Renaissance: either EGL 404.0 or EGL 406.0;

(ii) Shakespeare: any combination of two (2) of EGL

444.1(.2), EGL 445.1(.2), EGL 446.1(.2), EGL 447.1(.2);

(iii) 18th Century and Romantics: at least one of EGL

408.1(.2), EGL 412.0, EGL 414.0, EGL 416.0;

(iv) 19th Century: at least one of EGL 409.1(.2), EGL 418.0, EGL 420.0, EGL 430.0, EGL 448.1(.2)/449.1(.2);

(v) 20th Century: at least one of EGL 424.0, EGL 426.0, EGL 428.0, EGL 440.0, EGL 450.1(.2)/451.1(.2), EGL 460.0, EGL

471.1(.2) and EGL 472.1(.2);

(vi) EGL 550.0, Special Author; EGL 551.0, Special Subject; or EGL 552.0, Honors Seminar, or any 2 of EGL 553.1(.2)/554.1(.2) Special Author, Special Subject, and EGL 555.1(.2)/556.1(.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.

Notes:

two of the following courses - EGL 201.1(.2), English Composition, EGL 203.1(.2), Introduction to Literature I, or EGL 204.1(.2), Introduction to Literature II are the normal prerequisites for all upper-level English courses.

(ii) 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. Students who received credit for EGL 400.0 are not entitled to receive credit for EGL 393.1(.2).

201.1(.2) English Composition

A composition course designed to provide a thorough review of the basic principles of effective writing. The focus is on issues of grammar, rhetoric and logic in student writing and in examples from established practice. Some sections of this course are computer assisted.

203.1(.2) An Introduction to Literature 1: Poetry and Drama

This course introduces the student to the genres of poetry and drama. It develops the student's ability to interpret written texts and write about them in an organized and informed matter.

204.1(.2) An Introduction to Literature II: Prose and Fiction

This course introduces the student to genres of prose and fiction. It develops the student's ability to interpret written texts and write about them in an organized and informed matter.

300.1(.2) - 303.1(2); 305.0 Selected Topics

The subject matter of particular courses will be announced from time to time. These courses are designed to treat at an intermediate level authors and topics not dealt with in the other 300-level courses.

306.0 Cross-listed as CLA 306.0 The Epic

307.0 Literary Traditions in English

Prerequisite: At least one (1.0) credit in English at the 200 level or above.

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.

308.1(.2) Development of English Prose Style [LIN 308.1(.2)]

The course offers a close study of 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.

311.1(.2) Modern English Language [LIN 311.1(.2)]

The course will examine the nature of modern English with reference to its syntax, grammar and vocabulary. Traditional grammar will be reviewed, and modern approaches to grammar and lexicography will be discussed.

312.1(.2) Modern English Language in Canada [LIN 312.1(.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 be the speech of the Atlantic Provinces.

313.0 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.

315.1(.2) Masterpieces of Western Literature (Pre-Renaissance)

An historical survey of the major works of Western civilization from classical Greece to the Renaissance.

316.1(.2) Masterpieces of Western Literature (Post-Renaissance)

An historical survey of the major works of Western civilization from the Renaissance to the 20th century.

317.0 Writing by Women [WMS 317.0]

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.

318.1(.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.

321.1(.2) Advanced Composition

322.0 Advanced Composition (Computer Assisted)

323.1(.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.

324.1(.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 the present day.

325.1(.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.

326.1(.2) Language and Gender [WMS 326.1(.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 language 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.

327.1(.2) The Bible and English Literature [REL 376.1(.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.

328.1(.2) The Catholic Tradition in Modern Literature in English

[REL 375.1(.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.

329.0 The Development of Canadian Literature in English This course offers an introduction to Canadian Literature and Canadian literary history. Representative works of drama, fiction and poetry are studied in critical and historical context.

Note: Students who have received a credit for EGL 432.0 cannot receive an additional credit for EGL 329.0.

331.1(.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.

334.0 The Literature of Modern Ireland [IRS 334.0]

A study of the contradictions and fissures in modem Ireland as these are seen through the imagination of her writers. The writers.

will include W. B. Yeats, J. M. Synge, G. B. Shaw, Sean Say, Maurice O'Sullivan, Liam O'Flaherty, James Joyce, Kavanagh, Padraic Colum, Sean O'Faolain, James Johans, J. B. Keane and Brian Friel.

1(.2) Introduction to Drama I

course is a survey of representative plays from ancient sece to 1700.

1(.2) Introduction to Drama II

course is a survey of representative plays from 1700 to the

1(,2) Cultural Studies

is an interdisciplinary course that explores culture and mexts within which culture is produced, disseminated, and memory. The course introduces students to some of the basic haral studies theories and methodologies, like psychoanalysis, momics, sociology, but also film and media studies, gay and media theories, feminist, ethnic, and popular-culture studies.

1.1(.2) Contemporary American Fiction

budy of American fiction since World War II. Authors to be died are chosen partly because they interpret some important bects of the American national experience during this period partly because they raise basic questions about the batteries of fiction.

35.1(.2) The Development of Science Fiction to the New Wave

requisite: Any two of EGL 201.1(.2), 202.1(.2) 203.1(.2), or 4.1(.2).

course will explore visionary and speculative literature ranging early nineteenth century speculative fictions up to and tuding the New Wave. Topics such as the following will be tussed: the influence of the classical writers M. Shelley, J. the, and H.G. Wells; the importance of the "pulp" magazines of 1920s and 1930s and 1940s; Golden Age writers and writing; and the development of the New Wave movement.

57.1(.2) Recent Science Fiction

course will look at the recent expansion of the genre through periments with form and subject matter. Topics such as the lowing will be discussed: the influence of the New Wave extrement and the Feminism; the development of Cyberpunk; thractive science-fiction, including "fandom" and the proliferation fanzines"; science fiction as a multi-media genre; role-playing length millennialism; and the recent trend towards the similation of science fiction with fantasy and/or horror.

31.1(.2) World Literature in English: Selected Focus

185.0 The Modern Novella

275.1(.2) Writing Fiction I

***Militional prerequisite: submission of samples of writing prior to egistration and permission of Creative Writing Coordinator.

course in the many techniques, skills, goals and problems in thing fiction. The emphasis is on analyzing student stories in orkshops, but lectures and writing exercises may also be cluded.

376.1(.2) Writing Fiction II

ditional prerequisite: submission of samples of writing prior to eistration and permission of Creative Writing Coordinator.

This course encourages students to experiment with literary schniques and to develop their own writing style. Students will articipate in workshops, read widely in the genre of the short thory and be encouraged to rethink and revise their own fiction.

380.0 Literature of Atlantic Canada

An examination of the literature and literary background of Atlantic Danada. Emphasis in the first semester is on the 19th and early 20th centuries; in the second semester it is on contemporary writing.

381.0 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.

382.0 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.

383.1(.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.

391.1(.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 judgement.

392.1(.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 judgement.

393.1(.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.

395.0 An Introduction to Shakespeare

401.1(.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 400-level courses or to allow for a different approach to the study of authors and/or topics already covered in other countries.

402.0 History of the English Language (LIN 402.0)

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 syntax, grammar and vocabulary.

404.0 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.

406.0 The Poetry and Prose of the English Renaissance This course is concerned with the development of English prose and poetry between the years 1550 and 1620.

408.1(.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.

409.1(.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.

412.0 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.

414.0 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, Steme, Goldsmith and Austen.

416.0 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.

417.1(.2) Feminist Literary Theory [WMS 417.1(.2)]

Prerequisite: EGL 201.1(.2) and 202.1(.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.

418.0 The 19th Century Novel

A study of the English novel in the social and historical context of the 19th century. Attention will be given to technical and stylistic developments, recurrent themes, major conventions, and various other concerns shared by novelists such as Austen, the Brontes, Thackeray, Dickens, Eliot, Hardy and James.

420.0 Victorian Poetry and Prose

This course is devoted to a critical study of the work of such representative poets as Elizabeth Barrett Browning, Affred Lord Tennyson, Robert Browning, Matthew Amold, and Christina Rosetti, and writers of prose such as Thomas Cartyle, John Henry Newman, John Stuart Mill, and Matthew Amold. The writers will be studied in the context of the literary, social, and cultural history of Victorian England.

424.0 20th Century American Literature

A study of significant practitioners of 20th century American fiction and poetry. Important intellectual and cultural trends will be considered as they emerge from a close study of the texts.

426.0 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 modem imagination.

427.1(.2) Language, Gender and Power [WMS 427.1(.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 discoursal strategies. It examines dialect and generic features used in constructing and maintaining social identities and differences

428.0 20th Century Poetry

A study of 20th century poetry in English. British, American and Canadian poetry of the Modernist period and the post-World WII period is given special emphasis.

430.0 Scottish Literary Traditions

A selective examination of Scottish literary traditions from the lamiddle Ages to the present. As required for particular writers, attention will also be paid to the Scots language and to cultural background.

433.1(.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.

434.1(.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 sias De Quincey to modern and contemporary works.

435.1(.2) 20th Century European Drama

A study of the principal European dramatists and theatre movements in the present century with emphasis on the ones thave most influenced drama written in English. Reference is moto works by such dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Brecht, Beckett and Ionesco.

437.1(.2) Canadian Drama

438.1(.2) American Drama

This course traces the origins and principal developments of drama in the United States. Special reference is made to the woof leading dramatists, including O'Neill, Wilder, Miller, Williams, Albee, Wilson and Shepard.

440.0 Theory and Practice of Criticism

A general survey of the intellectual background and developme of postmodemism as it emerges in literary and cultural criticism and theory. The main areas of investigation involve such domin postmodemist problematics as literary and philosophical deconstruction, the critique of ideology, Lacanian psychoanalys and the construction of subject, allegory and the sublime.

441.1(.2) The Irish Short Story [IRS 441.1(.2)]

This course will examine the short story as a major form in the fiction (in English) of Ireland, tracing its development from the lift folktale to the sophisticated modern stories of internationally repractitioners such as Joyce, O'Connor, O'Faolain and Lavin.

443.1(.2) Irish Poetry

[IRS 443.1(.2)]

Irish poets and poetry from ancient to modern times will be the subject matter of this course. Special emphasis will be placed of poets of the modern period from Yeats to Heaney, and the cour will concentrate on the interaction of the patterns of Irish Gaelio sounds and images with those drawn from English language ar culture.

444.1(.2) Shakespeare I

The subject of this course is Shakespeare's comedies and romances.

See note above for EGL 395.0.

445.1(.2) Shakespeare II

The subject of this course is Shakespeare's history plays and problem plays.

See note above for EGL 395.0.

446.1(.2) Shakespeare III

The subject of this course is Shakespeare's tragedies.

See note above for EGL 395.0.

1(.2) Shakespeare's Contemporaries

is course studies selected plays by such writers as Kyd, blowe, Decker, Jonson, Beaumont and Fletcher and Webster.

1(.2) Nineteenth Century American Literature from

course is a survey of the major authors and works of merican literature during the first half of the nineteenth century.

Melville. Some attempt will be made to examine the historical

cultural influences exerted on the literature by the American buolution and the Puritan sensibility.

43.1(.2) Nineteenth Century American Literature from

course is a survey of the major authors and works of inerican literature during the second half of the nineteenth initury. Special emphasis will be given to Whitman, Dickinson, main and James. It will attempt to give the student a sense of the retoping voices of the post-Civil War culture.

41(.2) British Drama 1900-1955

focus of this course is the dominant role of G. B. Shaw in the state of the first three decades of the 20th Century. Other syrrights studied include Granville Barker, Galsworthy, Barrie, ward, Rattigan, Eliot and Fry.

451.1(.2) British Drama since 1956

"overnight revolution" in British Theatre in 1956 produced becessive waves of outstanding dramatists who will be studied in course, including Osborne, Pinter, Arden, Bond, Stoppard, ackbourn and Shaffer. The work of three major companies which imped to promote them, the Royal Court Theatre, the Royal sakespeare Company and the National Theatre Company, will be featured.

52.1(.2) Irish Drama to the End of the 19th Century

his course studies Irish drama from its beginnings to the end of nineteenth century, including the works of Farquhar, Sheridan, booklin, Kelly, and Boucicault.

53.1(.2) Irish Drama in the 20th Century **PRS** 453.1(.2)]

This course studies Irish drama from the founding of the Irish Intional Theatre society in 1903 up to the present time, including works of Yeats, Hyde, Lady Gregory, Synge, Shaw, O'Casey, and Beckett.

64.0 Special Subject/Special Author

This course provides the opportunity to study a particular author or imbject in depth and detail. It is designed to examine, at an invanced level, authors and topics not dealt with in other 400-level courses or to allow for a different approach to the study of leuthors and/or topics already covered in other courses.

460.0 Postcolonial Literature: An Overview

This course is designed to introduce students to postcolonial literature. Works of fiction to be studied will be from the paribbean, Africa, New Zealand, India, Australia, and elsewhere, armining them within their political, historical and cultural bontexts.

Classes 2 hrs. and group presentations 1 hr. a week. 2

461.1(.2) Polemical Writing by Women **[WMS 461.1**(.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 havery, imperialism, women's suffrage, feminism, militarism and boology.

463.1(.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-modem "bluming of genres" and to the possibilities and problems of interdisciplinary study.

470.1(.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.

471.1(.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.

Note: Students who have already received a credit for EGL 371.1(.2) cannot receive an additional credit for EGL 471.1(.2).

472.1(.2) Contemporary Canadian Poetry

Prerequisite: EGL 329.1(.2).

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.

Note: Students who have already received a credit for EGL 371.1(.2) cannot receive an additional credit for EGL 472.1(.2).

475.0 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 EGL 375.1(.2) or 376.1(.2) will be asked to submit a sample portfolio of their work before registration.

490.0 Discourse Analysis

Prerequisite: At least one (1.0) credit in this Department's language or literature courses at the 300 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.

550.0 Special Author IWMS 550.01

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.

551.0 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.

552.0; 555.1(.2)/556.1(.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 topiand members of the English Department will conduct seminars their areas of expertise.

553.1(.2) - 554.1(.2) Special Author, Special Subject

These courses provide the opportunity to study a particular authorized subject, or period in considerable depth and detail and will requise measure of independence and initiative in the student.

English As A Second Language (ESL)

Course descriptions for this subject area are found in the Modern Languages and Classics Department section of this Calendar.

Environmental Studies (ENV)

L. Vasseur, Coordinator Biology/Environmental Studies

C. Barber Biology
G. Barrett Sociology

T. Charles Management Science/ Environmental

J. Dostal Geology
M. Lamoureux Chemistry
M. Raymond Marketing

D. van Proosdij Geography

Student representative 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, thouble major, dual degree, honors, double honors and/or co-op. Graduates of the honors program may be qualified for admission to graduate programs in Environmental Studies or related subjects.

Program of Study

- Subject to the regulations set forth in this Calendar, students
 must complete the equivalent of twenty (20.0) credits 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
 Groups B and C below.
- The twenty (20.0) credits of the four-year (five years if co-op option) program of study consist of:
- a. ten (10.0) required credits (Group A);
- three (3.0) credits selected from a list of recommended arts, social science and commerce courses (Group B);
- five (5.0) credits selected from a list of recommended science courses (Group C).
 At least two (2.0) credits of the Group C must be at the 400 level or above.
- The remaining two (2.0) credits may be selected from any discipline.
- 3. The choice of courses will be made in consultation with the Program Coordinator (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. Honors or Double Honors

For the Bachelor of Science (Honors) 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 Honors. Students should consult the Science Faculty regulations outlined in Section 3 of this Academic Calendar.

Students must prepare a proposal for the Honors research project (ENV 599.0) 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)

Principles of Biology **BIO 200.0 CHE 202.0** General Chemistry for Life Sciences ECO 201.1(.2) Principles of Economics: Micro ECO 363.1(.2) **Environmental Economics** EGL 201.1(.2) **English Composition** Either: EGL 203.1(.2) An Introduction to Literature I or EGL 204.1(.2) An Introduction to Literature II **GEO 200.0** Introduction to Earth Science GPY 203.1(.2) Physical Geography: Global Patterns

GPY 213.1(.2) Group A2

One half (0.5) credit from the following:

GPY 326.1(.2) Statistical Methods for Geographers BIO 308.1(.2) Biostatistics

Regional Patterns

Physical Geography: Local and

			Environment otadies 115
	in the following:	Any language coul	rses, up to one (1.0) credit.
CSC 226.1(.2) CSC 227.1(.2)	Introduction to Computer Programming I Introduction to Computer Programming II	10 Group C. St.	udents must take at least five (5.0) credits from
or		the following list. S	Students in the honors program must take at
MAT 210.1(.2)	Introductory Calculus I		dits from the following list plus ENV 599.0:
MAT 316.1(.2)	Introduction to Mathmatical Statistics	Honors Research	
	in MAT section below concerning MAT 207	BIO 324.1(.2)	Ecology
and 315)		BIO 326.1(.2)	Diversity of Non-vertebrate
Or	Introduction Colombia I	DIO 207 44 01	Animals
MAT 210.1(.2)	Introductory Calculus I	BIO 327.1(.2)	Anatomy and Functional
MAT 211.1(.2)	Introductory Calculus II	DIO 224 44 21	Morphology of Vertebrates
O b-16 (O.5) -	and the sea the fellowing.	BIO 331.1(.2)	Population and Ecosystem Health
	redit from the following:	BIO 398.1(.2)	Introduction to Microbiology
GPY 206.1(.2)	Computers and GIS in Geography	BIO 399.1(.2)	Biology of Lower Plants
MSC 225.1(.2)	Introduction to Computers	BIO 404.1(.2)	Behavioural Ecology
Cours A2 (Cour	isonmental Courses)	BIO 414.1(.2)	Environmental Microbiology
ENV 300.1(.2)	ironmental Courses)	BIO 416.1(.2)	Mycology I
ENV 499.0	Environmental Science Seminar in Environmental Science	BIO 417.1(.2)	Mycology II
ENV 499.0	Seminar in Environmental Science	BIO 422.1(.2)	Applied Ecology
One half (0.5) o	redit from the following:	BIO 425.1(.2)	Ecology of Fishes
		BIO 427.1(.2)	Introductory Entomology
ENV 410.1(.2)	Environmental Impact Assessment	BIO 428.1(.2)	Applied Entomology
ENV 420.1(.2)	Environmental Monitoring and Auditing	BIO 429.1(.2)	Quaternary Palynology Ornithology
ENV 440.1(.2)	Environmental Policy and Compliance	BIO 430.1(.2) BIO 448.1(.2)	Biology Field Course
ENV 450.1(.2)	Natural Resource Management		Aquatic Parasitology
ENV 460.1(.2)	Methods of Environmental and Natural	BIO 449.1(.2)	
	Resource Analysis	BIO 450.1(.2) CHE 332.1(.2)	Diversity in Forest Ecosystems Introductory Analytical Chemistry: Wet
Consum B. C.	idente munt take at land there (0.0) and the	OHE 332.1(.2)	Methods
	Idents must take at least three (3.0) credits list. The courses have been divided into	CHE 333.1(.2)	Introductory Analytical Chemistry:
vironmental core	e courses, and background/techniques		Instrumental Methods
urses, for the co	nvenience of students.	CHE 344.1(.2)	Organic Chemistry I
		CHE 346.1(.2)	Organic Chemistry IIB (or IIA if double
vironmentally re	elated courses:	1000	major in Chemistry)
ANT 306.1(.2)	Foraging Adaptation	CHE 373.1(.2)	Introduction to Environmental Chemistry I
ANT 329.1(.2)	The Arctic Cultural Area	CHE 374.1(.2)	Introduction to Environmental Chemistry II
ECO 361.1(.2)	Fisheries Economics	CHE 432.1(.2)	Instrumental Analysis I
ECO 362.1(.2)	Natural Resource Economics	CHE 433.1(.2)	Instrumental Analysis II
EGL 318.1(.2)	The Writer and Nature	CHE 451.1(.2)	Introductory Biochemistry
GPY 204.1(.2)	Demographics and Culture	CHE 452.1(.2)	Biochemistry: Metabolism
GPY 214.1(.2)	Environment and Livelihood	ENV 310.1(.2)	Field Course in Environmental Studies
GPY 319.0	Cultural Ecology	ENV 410.1(.2)	
GPY 331.1(.2)	Geography of Natural Resources	ENV 420.1(.2)	Environmental Monitoring and Auditing
	and Energy	ENV 430.1(.2)	Directed Research
GPY 454.1(2.)	Bay of Fundy: Environment and Issues	ENV 440.1(.2)	
HIS 353.1(.2)	History of Environmental Science	ENV 450.1(.2)	Natural Resource Management
IDS 470.1(.2)	Environment and Development	ENV 460.1(.2)	Methods of Environmental and Natural
MGT 388.1(.2)	Business and Society	050 000 44 0	Resource Analysis
PHI 305.1(.2)	Environmental Ethics	GEO 300.1(.2)	Field Methods
PSY 414.1(.2)	Environmental Cognition	GEO 325.1(.2)	Sediments and Depositional Environments
PSY 418.1(.2)	Environmental Psychology	050 040 44 0	[GPY 325.1(.2)]
REL 347.1(.2)	Ecology and Religion	GEO 340.1(.2)	
REL 348.1(.2)	Religion and Ecological Issues in the	GEO 350.1(.2)	Environmental Geoscience Issues
	Developing World	GEO 400.0	International Field Camp
SOC 310.1(.2)	Society and the Environment	GEO 414.1(.2)	Global Geology Mineral Resources
SOC 391.0	Rural Sociology	GEO 441.1(.2)	
SOC 419.0	Sociology of the Environment	GEO 442.1(.2) GEO 453.1(.2)	Principles of Geochemistry
and and			
ackground cours		GEO 454.1(.2)	Applied Geochemistry Sedimentology [GPY 465.1(.2)]
COM 293.1(.2)	Managerial Communication	GEO 465.1(.2) GEO 466.1(.2)	
COM 394.1(.2)		GPY 304.1(.2)	Environmental Management
COM 475 44 61	Techniques	GPY 304.1(.2) GPY 313.1(.2)	Geomorphology [GEO 373.1(.2)]
COM 475.1(.2)		GPY 315.1(.2) GPY 316.1(.2)	Map and Air Photo Interpretation
ECO 202.1(.2)	Principles of Economics: Macro		Biogeography
ECO 364.1(.2)	Cost Benefit Analysis	GPY 333.1(.2) GPY 334.1(.2)	The Oceans: A Physical Geography
MGT 392.1(.2)	Occupational Health & Safety	GPY 334.1(.2) GPY 336.1(.2)	Principles of Cartography
MSC 301.1(.2)			Weather & Climate
PHI 302.0	Ethics	GPY 343.1(.2)	
PHI 448.1(.2)	Philosophy of Science	GPY 344.0	Ocean Use and Management
PSY 250.1(.2)	Social Behavior	GPY 356.1(.2)	Remote Sensing of the Environment
PSY 309.1(.2)	Human Factors	GPY 366.1(.2)	Field Techniques and Research Methods
PSY 497.1(.2) REL 349.1(.2)	Community Psychology Science & Religion	GPY 386.1(.2)	Concepts of Geographical Information Systems
SOC 387.1(.2)	Women & Development	GPY 413.1(.2)	Coastal Geomorphology
		GPY 414.1(.2)	Coastal Management
-		GPY 423.1(.2)	Glacial Geomorphology [GEO 475.1(.2)]
**		GPY 433.1(.2)	Fluvial Geomorphology

GPY 436.1(.2)	Advanced Remote Sensing
GPY 443.1(.2)	Natural Hazards
GPY 454.1(.2)	Estuarine Environments
GPY 496.1(.2)	Applications in GIS
MAT 210.1(.2)	Introductory Calculus I
MAT 211.1(.2)	Introductory Calculus II
MSC 225.1(.2)	Introduction to Computers
PHY 235.1(.2)	Physics for Life Sciences I
PHY 236.1(.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.

300.1(.2) Environmental Science

Prerequisite: officially declared major/honors 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.

310.1(.2) Field Course in Environmental Studies Prerequisite: ENV 300.1(.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, blota, 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.

410.1(.2) Environmental Impact Assessment Prerequisite: ENV 300.1(.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.

420.1(.2) Environmental Monitoring and Auditing Prerequisite: ENV 300.1(.2) and one of MAT 207.1(.2) or GPY 326.1(.2) or MSC 207.1(.2) or BIO 308.1(.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 socioeconomic monitoring.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

430.1(.2) Directed Research Prerequisite: ENV 300.1(.2)

Students will pursue a short term research project in such

areas as: oceanographic sampling and analysis, policy development or environmental impact assessment. Student 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.

440.1(.2) Environmental Pollcy and Compliance Prerequisite: ENV 300.1(.2).

This course focuses on environmental policy in Canada and the world and how organizations comply with environmental regulations through standards and environmental managements. The aspects of legislation and environmental regulations are also examined.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

450.1(.2) Natural Resource Management [GPY 424.1(.2)]

Prerequisite: ENV 300.1(.2) or GPY 304.1(.2), and one of MA 207.1(.2) or GPY 326.1(.2) or MSC 207.1(.2) or BIO 308.1(.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.

460.1(.2) Methods of Environmental and Natural Resourd Analysis

[GPY 444.1(.2)]

Prerequisites: ENV 300.1(.2) or GPY 304.1(.2), and one of MAT 207 or GPY 326 or MSC 207 or BIO 308, and one of MAT 210 or CSC 226; 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; bioeconomic 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.

499.0 Seminar In Environmental Science Prerequisite: ENV 300.1(.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.

599.0 Honors Research Project

Prerequisite: honors standing in Environmental Studies.

Honors students will work with a research advisor who will guid 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 (EMB)

Inct Professors

Sanjay Sharma Alex Faseruk. Timothy O'Neill, Maurice Tugwell

samplete description of this graduate program is found in ection 3 of this Calendar.

following courses are available only to students registered in Executive Master of Business Administration Program.

Fall Semester

EMB 511.1; 512.1; 514.1; and 522.1.

Winter Semester

EMB 513.2; 521.2; 523.2; and 524.2.

11.1(.2) Managerial and Financial Accounting

s course is designed to improve students' decision-making **littles** as managers using accounting information within anizations, and as managers interpreting and using externally bished financial statements from other organizations. The use Eccounting systems for planning of activities and control of berations with emphasis on the human behavioral aspects will studied. The course will also develop and further the student's mowledge of accounting techniques and principles and their inderstanding of accounting data.

312.1(.2) Organizational Behavior and Theory

s course is concerned with the behavior and attitudes of in organizations and with how anizations are structured to achieve their goals. The course ies heavily on the contributions of psychology, sociology and inthropology, and strong emphasis is placed in those magement decisions that contribute to organizational ectiveness. Topics to be covered typically include leadership, entivation, job design reward systems, control systems, groupnamics, communication and decision-making, designing jobs and reward systems, evaluating organizational effectiveness, inflict management, organizational culture, and change.

13.1(.2) Strategic Marketing

in this course, students will develop the understanding and malytical skills needed to make strategic choices for achieving stainable competitive advantage in the global market. Methods instruction may include seminar discussions, case analysis, imulations, secondary research, and field research projects.

\$14.1(.2) Business Research Methods

This course covers the basic topics related to the collection, malysis and presentation of data for business decision-making. ppics include elementary notions of research and theory enstruction and statistical inferential, sample design, regression and correlation, model building, time series and index, and precasting. The use of primary and secondary data sources will be addressed. The presentation of research results will imphasize the fundamentals of both written and oral mmunication techniques for effective presentation of business lata/research results.

21.1(.2) Corporate Finance

The objective of the course is to provide an integrated view of the mancing and investment decision of the firm by focusing on how the value of a company is affected by the trade-offs between the letums and risks inherent in all financial decisions. Topics include pency theory signalling and financial compensation schemes and their impact on financial decision making. Students should pomplete the course having an in-depth appreciation of the mature of the financial markets within which the firm operates logether with a solid working knowledge of a wide variety of mancial decision techniques.

522.1(.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

523.1(.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.

524.1(.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

631.1(.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.

632.1(.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.

633.1(.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.

634.1(.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).

641.1(.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.

642.1(.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.

643.1(.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.

644.1(.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 Issurance Facilities (NIFs), currency and interest raiswaps, 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.

645.1(.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 practic for structuring and controlling marketing programs related to international business. Case studies will be used extensively.

646.1(.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 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.

647.1(.2) Entrepreneurship and Family Business

Through independent research, seminars, and lectures, this course covers the two topics of entrepreneurship and family business. The first topic includes: the nature of entrepreneursh theories of entrepreneurship, characteristics and behaviours of entrepreneurship, the entrepreneur as catalyst for economic activity in developing and developed economics, and application 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, issu of succession, and management problems specific to family businesses.

690.1(.2) Seminar in Business Studies

Prerequisite: completion of all required 500-level EMBA course

The course deals with selected topics in business. The topics to be covered will vary depending on the interest of the students a instructors.

691.1(.2) Directed Study

Prerequisite: completion of all required 500-level EMBA course and permission of EMBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the elective in order to meet the special needs and interests of students.

Film Studies (FST)

Commencing in the 1998-99 academic year, a minor in Film Studies was introduced and made 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 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: four (4.0) credits [two (2.0) required credits and two (2.0) elective credits)].

Required courses (2.0)

(a) either [one (1.0) credit from NSCAD)]

2800.03L: Film History and Criticism, 1890-1940, and

2801.03L: Film History and Criticism, 1940-to the present or

[one (1.0) credit from Dalhousie)] 2300.6: Film Study; and

(b) also [one (1.0) credit from Mount Saint Vincent)]

2293: Introduction to Film Language, and

2295: Aesthetics of Film

Elective courses [two (2.0)] currently available from the four cooperating institutions.

Saint Mary's University

ACS 305.1(.2): Moving Images of Atlantic Canada

EGL 313.0: Narrative in Fiction and Film

HIS 450.1(.2): Film and History

Mhousie University

Eng 2095.03 (0.5 credit) Narrative in the Cinema Russ 2033.03 (0.5 credit) Survey of Russian Film Mus 2015 X1Y.06(1.0 credit) Music and Cinema Span 3800.03 (0.5 credit) Seminar in Spanish Film Span 3810.03 (0.5 credit) Seminar in Latin American Film (In Spanish)

Wount Saint Vincent University

FINE/WOMS 3330 (0.5 credit) Canadian Women Film Directors FINE/WOMS 3333 (0.5 credit) International Women Film

ENGL 2213 (0.5 credit) Contemporary Film

Nova Scotia College of Art and Design

3000 (0.5 credit) Topics: Twentieth Century Art

3850 (0.5 credit) History and Criticism of Documentary Film 4800 (0.5 credit) Independent Studies in Film History, Theory,

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 Coordinators**

Joëlle Cauville - Tel: 420-5810 Harold McGee - Tel: 420-5630

The regular "Declaration of Major/Minor/Concentration" form is used to declare a minor. Students must fulfil 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).

inance and Management Science (FIN and MSC)

Chairperson, Associate Professor

ofessors

M. Chew

T. Charles, J.C. Dodds,

E. Lee

Insociate Professors

S. Amirkhalkhali,

F. Boabang,

S. Cleary, P. Dixon,

J. Gregory, D. Jutla, H. Millar, M. Mohd, M. Wang

G. Hebb, G. MacKinnon,

S. Sivakumar

lesistant Professors Munct Professors

W. Anoke, M. Kah. A. Surovell, T. Whalen

The Department of Finance and Management Science offers a priety of courses that may be classified as follows:

- those that deal directly with three of the primary functions of usiness - finance, information management, and operations management; and
- those whose aim is to develop skills in management science quantitative methods, computing, and statistics, which indirectly plate to all of the primary functions of business.
- in addition to the core courses in quantitative methods [MSC **205.1(.2), MSC 206.1(.2), MSC 207.1(.2)], computing [MSC** 225.1(.2)], and finance [FIN 360.1(.2), FIN 361.1(.2)] which are quired for the Bachelor of Commerce degree, the Department ffers a number of advanced courses. In particular, those audents pursuing a Bachelor of Commerce may elect to major in mance 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 bited 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 MSC 506.1(.2), MSC 521.1(.2) and FIN 561.1(.2)] required of all Judents in Year 1 of the MBA Program, as well as a number of Lective courses available at the 600 level in Year 2 of the MBA Program.

Finance (FIN)

360,1(,2) Business Finance I

Prerequisite: MSC 207.1(.2) and ACC 242.1(.2), the latter of which may be taken concurrently.

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.

361.1(.2) Business Finance II Prerequisite: FIN 360.1(.2).

A continuation from FIN 360.1(.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.

362.1(.2) Principles of Real Estate and Appraisal

363.1(.2) Principles of Insurance

364.1(.2) Canadian Securities

Prerequisite: FIN 360.1(.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

462.1(.2) Real Estate Investment Decisions

463.1(.2) Financial Management Prerequisite: FIN 361.1(.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.

464.1(.2) Issues in Corporate Finance Prerequisite: FIN 463.1(.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 environment. 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 wellstructured, meaningful report. Data bases, spreadsheet and some financial analysis software will be used in this course.

465.1(.2) Mergers, Restructuring and Corporate Control Prerequisite: FIN 361.1(.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.

466.1(.2) Investments Prerequisite: FIN 361.1(.2).

This course presents an overview of the Canadian Investment environment. A framework is developed for assessing the merits of various secunties 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 secunties, derivatives and margin trading on secunties. A brief introduction to portfolio management is given.

467.1(.2) Portfolio Management Prerequisite: FIN 466.1(.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.

468.1(.2) Financial Innovations Prerequisite: FIN 466.1(.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.

469.1(.2) Risk Management Prerequisite: FIN 466.1(.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.

470.1(.2) Fixed Income Securities Prerequisite: FIN 466.1(.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.

471.1(.2) Financial Institutions Prerequisite: FIN 361.1(.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.

476.1(.2) International Financial Management Prerequisite: FIN 361.1(.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.

490.1(.2) Seminar in Finance

Prerequisite: permission of Chairperson or instructor.

This course deals with selected topics in finance. It is offered when in sufficient demand, and specific topics covered may va depending on the interests of students and instructor.

491.1(.2) Small Business Consultancy Prerequisite: permission of instructor.

This course allows students to gain hands-on business experience by working with clients of the Saint Mary's Universit Business Development Centre. Student Groups receive a proproposal outlining the requirements, information needs and services they will provide the client during the semester. Projegenerally take the form of a business plan, market study, or oth 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 the communicate the project's result for the client.

Work groups often include students from different disciplines a are assigned based upon the needs of the project. Groups schedule their preferred meeting times but are required to mee minimum of three hours each week. For more information see http://www.stmarys.ca/smubdc.

Internship. 1 semester.

492.1(.2) Directed Study

Prerequisite: permission of Chairperson and instructor.

Intended to supplement or provide an alternative to the regular finance courses in order to meet the special needs and interest 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 cours 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 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 Progra and with permission of the MBA Director to students registered in other master's programs.

561.1(.2) Business Finance

Prerequisite: ECO 501.1(.2); MSC 506.1(.2); ACC 540.1(.2) or 548.1(.2); or permission of MBA Director.

An introduction to financial management and the role of financial 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 coof capital, the management of assets, and dividend policy.

662.1(.2) Seminar in Real Estate Investment

663.1(.2) Financial Management

equisite: completion of all required 500-level MBA courses or ission of MBA Director.

agerial in emphasis, this course examines financial planning malysis, working capital management, capital budgeting iniques, and theories of cost of capital and valuation of the

1(.2) Corporate Finance

equisite: FIN 663.1(.2) or equivalent.

s course is also managerial in emphasis and covers material bited to financing both the short and long term assets of the bank borrowings, bonds, preferred stock, common stock, as as mergers and consolidation.

1(.2) Mergers and Restructuring equisite: FIN 561.1(.2).

course examines financial and economic aspects of borate mergers, acquisitions, joint ventures, restructuring, and mer corporate control transactions. Relations between corporate transactions and performance are explored. This course expose students to key corporate finance literature.

1(.2) Capital Markets

requisite: completion of all required 500-level MBA courses or ission of MBA Director.

purpose of this course is to discuss the management of stments. Although a strong theoretical treatment is adopted, course is developed in the context of Canadian financial rkets and available empirical work will be reviewed. Recent mances in option and bond markets will be developed and Imputer applications stressed. In addition, the asset-liability magement of financial institutions - banks, mutual funds, burance companies and public funds - will be reviewed.

\$7.1(.2) Options, Futures and Swap Markets equisite: FIN 668.1(.2).

is course is intended to help students understand activities of e financial institutions in the market place and the types of lancial innovations taking place in the market place. Topics ered include contemporary issues in the options and futures brkets and applications: stock options, stock index options, gign currency options, curb options, commodity futures, foreign hange futures, interest rate futures, stock index futures and brest rate swaps. Applications to hedging strategies are also phasized.

188.1(.2) Investments and Portfolio Management Pereguisite: FIN 561.1(.2).

his course presents an overview of the Canadian investment ironment focusing on various securities that trade in the oney, bonds, and equity markets. Both qualitative and Intitative treatments of risks and returns associated with stments in these markets are discussed. Applications to maged (active) and unmanaged (naive) portfolios, performance luation and interest rate risk management from the spective of financial institutions. Topics covered include arket transactions, portfolio theory and analysis, asset pricing odels and market efficiency, security analysis, equity and fixedprome portfolio management and performance appraisal.

70.1(.2) Fixed Income Securities merequisite: FIN 668.1(.2)

This course provides a detailed analysis of the bond market and instruments available therein. Although the emphasis is on both American securities, global portfolios are also examined. bond valuation and bond portfolio strategies are covered in pth. Treasury securities, corporate bonds, municipal bonds, ortgage backed securities, CMO's and interest rate options are dressed.

671.1(.2) Financial Institutions

Prerequisite: FIN 561.1(.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.

676.1(.2) International Business Finance and Banking Prerequisite: completion of all required 500-level MBA 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.

690.1(.2) Seminar in Finance

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

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.

692.1(.2) Directed Study

Prerequisite: completion of all required 500-level MBA courses and permission of MBA Director, Departmental Chairperson, and instructor.

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.

699.0 Research Project in Finance

Co-requisite: MBA 697.1(.2) plus one and one-half (1.5) 600-level Finance courses (may be taken concurrently).

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 (MSC)

205.1(.2) Introduction to Quantitative Methods for Commerce I

Prerequisite: Nova Scotia Grade 12 MAT 441 or 442; or MAT 050.1(.2)/051.1(.2); or equivalent.

This course illustrates applications of basic mathematical techniques in break-even analysis, data manipulation, aggregate planning and financial planning. Topics include linear functions, linear inequalities, the simplex method, compound interest, annuities and depreciation.

Note: This is the same course as ECO 205.1(.2).

206.1(.2) Introduction to Quantitative Methods for Commerce II

Prerequisite: Nova Scotia Pre-Calculus Mathematics or

Mathematics 12 Academic; or MAT 050.1(.2)/Q51.1(.2); or equivalent.

Note: No credit will be given for MSC 206.1(.2) if taken subsequently to or concurrently with MAT 210.1(.2).

The purpose of this course is to provide a basic understanding of the dynamics of non-linear functions as they relate to the use of scarce resources for profit maximization. Students will be exposed to the basic methods of calculus and the basic concepts of probability as they relate to decision making in an uncertain environment.

Note: This is the same course as ECO 206.1(.2).

207.1(.2) Introductory Statistics for Commerce Prerequisite: MSC 206.1(.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 accounting, economics, marketing, management, finance and production. Since the analysis of data will involve the use of a computer, it is strongly recommended that a course such as MSC 225 be completed beforehand.

Note: This is the same course as ECO 207.1(.2). Additional credit will not be given for MAT 207.1(.2); MAT 316.1(.2); or BIO 308.1(.2).

225.1(.2) Introduction to Computers

This course is an introduction to computers and their use in a business environment. The emphasis of the course is learning the use of common business software packages and programming. Other topics will include computer hardware and software, data processing and information systems.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

301.1(.2) Operations Research Prerequisite: MSC 207.1(.2), and MSC 225.1(.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 computergenerated solutions. Topics covered include: resource allocation, inventory management, and transportation and other network problems.

303.1(.2) Statistical Analysis for Business and Economics

317.1(.2) Operations ManagementPrerequisite: MGT 281.1(.2), MSC 205.1(.2) and MSC 207.1(.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.

318.1(.2) Total Quality Management Prerequisite: MSC 207.1(.2).

Quality is an important competitive weapon in modem 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, modem statistical improvement tools, and the design of quality strategies.

320.1(.2) Business Applications Programming

Prerequisite: MSC 225.1(.2).

This is a foundation programming language course that prese fundamental principles used in writing business applications, Primitive data types, basic data structure, flow control construir reusable modules, and debugging techniques are covered. Further topics include parameter-passing methods, application programming interfaces (APIs) and dynamic link libraries (DLL The implementation language, such as Visual Basic, will utilize object-oriented concepts. Labs are required. This course is a foundation course for the CIS program.

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

324.1(.2) The Use of COBOL in Data Processing Prerequisite: MSC 225.1(.2) or CSC 226.1(.2).

COBOL program organization, file organization, description are accessing, edit, sort, file maintenance and report writing programs, arrayed data, integration concepts, multi-programmic concepts.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

326.1(.2) Database Programming Prerequisite: MSC 320.1(.2).

This course covers programming business

This course covers programming business applications in a current database language. Also covered is a survey of data structures used in business applications and how they are implemented in common software packages.

328.1(.2) Computer Configurations Prerequisite: MSC 320.1(.2) (or concurrent).

In this course the student gains a basic knowledge of compute hardware and software needed to run standard business applications. The hardware topics provide the background needed for making management decisions with respect to small business computer requirements. The software topics emphasizes to maximize the efficient use of computers in small business.

Note: Credit cannot be received for both MSC 328.1(.2) and MSC 426.1(.2).

425.1(.2) System Analysis and Design

Prerequisite: ACC 323.1(.2), MSC 326.1(.2), and MSC 328.1(.2) (or concurrently).

The intent of this course is to provide the student with the necessary skills to conduct successfully an analysis of computerized information systems. These skills include, but an not limited to, fact finding techniques, data flow modelling techniques, data dictionary syntax, information system development methodologies, and project management skills are techniques. Students will work together in groups of 4-5 to complete a comprehensive case applying the tools and techniques learned in class. A computerized development tool will be used to implement the case.

Classes 3 hrs. and lab 1 hr. a week. 1 semester.

435.1(.2) Decision Support Systems Prerequisite: MSC 425.1(.2).

This course focuses on the design and development of information systems to support business decision-making. Course content includes structure and exploration of generic decision support systems (DSS) of how specific types of DDS (including expert systems, executive information systems, simulation, and data mining) can address specific business problems. As a follow up to MSC 425, design and implementation strategies related to information systems development will also be addressed. Students will work in treat to design and build DSS applications using Microsoft Excel and

al Basic.

: Credit cannot be received for both MSC 335.1(.2) and 435.1(.1).

Data Communications

Enquisite: MSC 328.1(.2).

course is an introduction to data communications and borks from a business application perspective. Topics ared include fundamental concepts of communications, types communication links, information coding, and wide-area and barea networks.

.1(,2) Seminar in Management Science
quisite: permission of Chairperson or instructor.

course deals with selected topics in management science. It may be when in sufficient demand, and specific topics covered vary depending on the interests of students and instructor.

1.1(.2) Small Business Consultancy equisite: permission of instructor.

before by working with clients of the Saint Mary's University because by working with clients of the Saint Mary's University because Development Centre. Student groups receive a project posal outlining the requirements, information needs and vices they will provide the client during the semester. Projects berally take the form of a business plan, market study, or other eness-related function and often involve financial projections. In project provides students an opportunity to use skills ared in business courses and to understand the energy finance, and the energy finance, and the energy finance and professional report and final presentation that municate the project's results for the client.

groups often include students from different business sciplines and are assigned based upon the needs of the project. The project is schedule their preferred meeting times but are required meet a minimum of three hours each week. For more immation, see http://www.stmarys.ca/smubdc.

mship. 1 semester.

1(.2) Directed Study

prequisite: permission of Chairperson and instructor.

bended to supplement or provide an alternative to the regular magement science courses in order to meet the special needs interests of students, the course provides an opportunity to body a particular subject in detail and requires from the student me measure of independence and initiative.

interial and independent study. 1 semester.

he following courses are available only to students gistered in the Master of Business Administration Program with permission of the MBA Director to students gistered in other master's programs.

106.1(.2) Statistics for Managers

imphasis in this course will be on developing the conceptual aundations and an in-depth understanding of the most useful latistical techniques used in marketing and management latistical techniques used in marketing and management latistical techniques used in deconomic analysis, and in accounting latistics, lating the regression, forecasting and quality control. The focus latistical analysis of real business problems in their full lamplexity. Extensive use will be made of a computer package lating la

\$15.1(.2) Management of Operations Prerequisite: M&C 506.1(.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 significant use of cases and will emphasize the use of the spreadsheet modeling as a tool for planning and managing operations.

521.1(.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.

603.1(.2) Statistical Applications in Management Science
Prerequisite: completion of all required 500-level MBA 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.

604.1(.2) Statistical Applications in Management Science II

615.1(.2) Strategic Design and Improvement of Operations Prerequisite: Completion of all required 500 level MBA courses or permission of the MBA Director.

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: operations strategy, process design and improvement, process analysis, strategic positioning of processes, implementation of operations improvement strategies, and integration of information technology and operations systems. The course will make significant use of cases and group work.

618.1(.2) Total Quality Management Prerequisite: MSC 506.1(.2) and MBA 502.1(.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, modem statistical improvement tools, and the relationship between quality strategy and the functional areas of the firm.

624.1(.2) Database Systems Prerequisite: MSC 521.1(.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.

Classes 1 1/2 hr. and labs 1 1/2 hr. a week. 1 semester.

Note: One month of labs only; then lab times are reassigned as class time.

625.1(.2) Electronic Commerce

Prerequisite: MSC 521.1(.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.

Classes 3 hrs. and lab 75 minutes a week. 1 semester.

636.1(.2) Decision Support Systems

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

This course will introduce students to the specialized use of computer systems for supporting and enhancing managenal 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. The course includes instruction in advanced features of Microsoft Excel. An application project will be completed either in teams or individually during the semester.

690.1(.2) Seminar in Management Science

Prerequisite: completion of all required 500-level MBA countries on MBA Director.

This course deals with selected topics in management scients offered when in sufficient demand, and specific topics commay vary depending on the interests of students and instructions.

692.1(.2) Directed Study

Prerequisite: completion of all 500-level MBA courses and permission of MBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the regular management science courses in order to meet the special and interests of students, the course provides an opportunity study a particular subject in detail and requires from the students of independence and initiative.

699.0 Research Project in Management Science
Corequisite: MBA 697.1(.2), completion of a MSC 600-level
course, or permission of MBA Director.

Each student is required to complete a project involving the practical application of the research concepts and technique used in management science, under the direct supervision a faculty member. Interdisciplinary projects are acceptable.

Geography (GPY)

Chairperson, Professor Professor Associate Professor Assistant Professors Lecturer Adjunct Professors

R. McCalla

H. Millward

B. Robinson

C. Conrad. P. Giles

D. van Proosdii

S. Jallow, S. Nam

D. Day

Professor Emeritus General Information

In its broadest sense geography studies the relationship between people and their surroundings. It derives much of its educational value from its interdisciplinary approach to such relationships. At the same time, it is a subject of practical importance in such fields as urban and regional planning, resource development, industrial location, marketing, environmental management, and geomatics. It is possible to obtain a major in geography in either a Bachelor of Arts or Bachelor of Science degree program.

Departmental Policy

- 1. The Department regards 200 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 GPY 321.1(.2) and history majors may be allowed to take GPY 439.1(.2).
- 2. GPY 203.1(.2) is not recognized as a science credit to satisfy Faculty of Science regulation 6e.
- The course content in most geography courses is cumulative.
- 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 300 and 400-level courses are not open to students in their first year at university.
- 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 alread 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 honors students must normally complete GP 316.1(.2) and GPY 336.1(.2) before the end of the first semantic of their second year or, in the case of part-time students, beforeceding to other upper level courses.
- All majors and honors students are assigned a faculty advisor with whom they should consult each year to review the progress and course selection.
- 10. For more complete information on geography programs students should obtain a copy of Notes and Guidelines for Geography Students from the departmental secretary.
- 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 as well as a natural science.

major in geography and obtain a Bachelor of Arts bachelor of Science degree. In either case the number of braphy credits required is 7.0. Not only must students meet seography requirements to qualify for a major in geography in a Bachelor of Arts or Bachelor of Science degree, they stalso meet individual Faculty requirements to qualify for the tree (see relevant sections of the Calendar). Students in the butty of Arts must maintain a minimum cumulative quality point trage of 2.00 (an average grade of C) in courses used to meet butty of Science must obtain a grade of not less than C in any course used to meet the minimum credit requirements for the major.

Imerai Requirements for a Major in Bachelor of Arts Segram

GPY 203.1(.2), GPY 204.1(.2), and one of 213.1(.2) or 214.1(.2);

GPY 316.1(.2), 336.1(.2) and one half (0.5) credit from GPY 326.1(.2), 356.1(.2), 366.1(.2), or 386.1(.2);

One and one half (1.5) credits in GPY at the 400 level; and Two and one half (2.5) other credits in GPY.

the: In addition to the three (3.0) defined credits in (i) and (ii), four (4.0) other GPY credits may be taken from any group (A, C, D). After the student attains seven (7.0) GPY credits, only pup A, C, and D courses count towards the "eight (8.0) credits arts subjects as the 300-level or above" (Faculty of Arts gulation 1). Additional Group B courses could be taken as actives.

meral Requirements for a Major in Bachelor of Science

GPY 203.1(.2), 204.1(.2), and 213.1(.2); GPY 316.1(.2), 336.1(.2) and one half (0.5) credit from GPY 326.1(.2), 356.1(.2), 366.1(.2), or 386.1(.2); At least two and one half (2.5) other credits from Group B courses at the 300 level or above, of which at least one (1.0) credit must be at the 400 level; and One and one half (1.5) other credits from any group.

the student has attained the required the re

This program is currently being reviewed by the Maritime Provinces Higher Education Commission.

buble Majors and Geology/Geography Combined Programs

budents wishing to complete a double major in geography and bother subject must meet the requirements for a major in sography as stated above. Bachelor of Arts and Bachelor of bommerce double major students would complete the equirements for a geography major in Bachelor of Arts program; bechelor of Science double major students would complete equirements for a geography major in the Bachelor of Science logram.

totle: See the Geology section of the Academic Calendar for larticular course requirements to complete the Seology/Geography Combined program which allows students to complete either a major or honors.

Seography Major (Bachelor of Arts) with a Minor in Geology

- 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.
- Courses that are cross-listed between geography and beology may only count towards the geology minor if they are taken as geology credits. (If they are taken as geography credits they can only apply to the geography major.)

3. Students accepted into the geology minor program will be

allowed to count four (4.0) geology credits towards their Arts degree requirements.

Honors Program

 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 honors program.

2. To be admitted to the honors 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 Honors Program Coordinator.

 Students admitted to the program are responsible for finding a member of the Department to act as their Honors Research Project supervisor.

 Complete details regarding the program and Honors Research Project are contained in Notes and Guidelines for Geography Students and Regulations for Presentation, Submission and Marking of the Honors Research Project.

 Besides meeting the respective Faculty credit and grade level requirements, students must complete a total of twelve (12.0) geography credits to qualify for graduation with honors.

For the Bachelor of Arts degree, the twelve (12.0) credits are:

- i. GPY 203.1(.2), 204.1(.2) and either 213.1(.2) or 214.1(.2);
- ii. GPY 316.1(.2), 326.1(.2), 336.1(.2), and one of GPY 356.1(.2), 366.1(.2), or 386.1(.2);
- iii. GPY 406.1(.2) and 416.1(.2);
- iv. GPY 526.1(.2); and
- v. Six and one half (6.5) other GPY credits from any group on which at least one (1.0) credit must be at the 400 level.

For the Bachelor of Science degree, the twelve (12.0) credits are:

- i. GPY 203.1(.2), 204.1(.2), 206.1(.2) and 213.1(.2);
- ii. GPY 316.1(.2), 326,1(.2), 336.1(.2) and one of GPY

356.1(.2), 366.1(.2), or 386.1(.2);

- iii. At least two and one half (2.5) credits from Group B courses at the 300 level or above, of which at least one (1.0) credit must be at the 400 level;
- iv. GPY 406.1(.2) and 416.1(.2);
- v. GPY 526.0; and
- vi. Four (4.0) other GPY credits 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 a least four (4.0) credits in geography, including GPY 203.1(.2), 204.1(.2) and one of 213.1(.2) or 214.1(.2). The other credits are not designated.

Students in a Bachelor of Science program wishing to complete a Minor in geography are required to complete at least five (5.0) credits in geography, including GPY 203.1(.2), 204.1(.2), 213.1(.2) and at least one and one half (1.5) credits from Group B or C courses. The other credits are not designated.

Minor in Environmental Planning for Geography Students from Saint Mary's University (SMU)

Saint Mary's geography majors and honors graduates may be granted the additional distinction of Minor in Environmental Planning by passing approved courses offered in the Environmental Planning (EP) program at the Nova Scotia College of Art and Design.

Students must follow a schedule of courses approved by the EP faculty and meet the following conditions:

a. a total of 24 NSCAD credits (4.0 SMU credits) with an average of at least C (2.00) in EP courses;

b. a minimum of 6 course-hour credits in EP studio courses; and

c. a minimum of 12 course-hour credits from a list of other recommended EP courses.

Note

(i) Saint Mary's students may not gain EP credit for ENVI 2200 (Landscape Processes)

(ii) Saint Mary's students may not gain credit for both ENVI 2310 (Environmental Issues) and GPY 304.1(.2) (Environmental Management), nor for both ENVI 3701 (EP Seminar: Land Use Planning) and GPY 442.1(.2) (Urban Planning)

Minor in Geography for all Nova Scotia College of Art and Design (NSCAD) Degree Programs

NSCAD students may be granted the additional distinction of a Minor in Geography by passing approved courses offered in the Department of Geography at Saint Mary's University.

Students must follow a schedule of courses approved by the Geography Chairperson and meet the following conditions:

a. a total of four (4.0) credits (24 NSCAD credits) with an average of at least C (2.00) in geography courses;

b. three of GPY 203.1(.2), 204.1(.2), and one of 213.1(.2) or 214.1(.2); and

c. at least two and one half (2.5) other geography credits (15 NSCAD credits). It is recommended that these credits be drawn from GPY 300.0, 302.0, 316.1(.2), and 340.1(.2) for students wishing geography as a second teachable subject.

203.1(.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 GPY 213.1(.2).

204.1(.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.

206.1(.2) Computers & GIS in Geography (Group C)
The course serves as an introduction to the use of computers to gather, display and analyze geographical information. Topics for discussion include: basic geographical concepts (location, scale, projections), gathering geographical information on the World Wide Web, digital mapping, digital image processing and geographical information systems (GIS). Capabilities and limitations of computers in geography are also discussed.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester.

213.1(.2) Physical Geography: Local and Regional Patterns (Group B)

Prerequisite: GPY 203.1(.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 aenal photography interpretation.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester.

214.1(.2) Environment and Livelihood (Group A) Prerequisite: GPY 204.1(.2).

A continuation from GPY 204.1(.2). This course describes explains geographical patterns of resource exploitation, Earl and abuse. Topics for discussion include economic develop food production, industry, rural settlement, urbanization and resource management. Consideration of topics is at the glot regional and local scale.

Classes 2 hrs. and lab/tutorial 2 hrs. a week, 1 semester.

300.0 Geography of Canada (Group D)

302.0 The Geography of World Affairs (Group D) Prerequisite: at least 5.0 credits.

The course introduces students to various facets of geographical analysis, through and to different approaches to geographical analysis, through the study of major world problems including conflicts over the configuration of land, sea and outer space; relationships between popular growth and resources; food supply and health problems; nath hazards; the effects of climatic change; levels of economic development; ethnic and religious conflicts.

304.1(.2) Environmental Management (Group D) Prerequisite: GPY 213.1(.2).

This course examines modern policy approaches to the management of environmental resources and landscapes, Specific environments and selected management issues for on the natural environment (such as soil erosion, water policy and natural hazards) will be examined, together with method environmental planning and impact assessment.

305.1(.2) The Oceans: A Physical Geography (Group B) Prerequisite: GPY 213.1(.2).

This course begins with a study of the role of the oceans in global environment. It considers the origin, nature, and distribution of ocean relief features, the principles and patter 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.

311.1(.2) Rural Geography (Group A) Prerequisite: GPY 204.1(.2).

Examines the nature of rural settlement and land use in variable 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 abandonfarm enlargement and fragmentation; forestry, mining, and recreational uses; commuting; and conflicts over multiple land use and scenic preservation.

312.1(.2) Urban Land Use (Group A) Prerequisite: GPY 204.1(.2).

The course analyzes the pattern of land use and the process 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, manufactural land in cities; public and semi-public land; the impact of public policies on urban land use.

313.1(.2) Geomorphology (Group B) [GEO 373.1(.2)]

Prerequisite: GPY 213.1(.2) or GEO 200.0.

The study of geomorphological processes and related lan from with an emphasis on fluvial activity. Processes of weathering 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.

basses 2 hrs. and lab 2 hrs. a week. 1 semester. Some field may be required.

15.1(.2) Ocean Use and Management (Group D) Sequisite: at least 5.0 credits.

eographical study of the present and future uses of the sans. Examination of the development and spread of new and latitional oceanic uses will focus attention on management uses. Course will include mineral and energy exploitation, fish duction, fish "ranching" and maniculture, shipping, recreational military uses, and ocean dumping. Regional case studies to used to illustrate evolving concepts of oceanic agement, including the use of computerized information tems.

6.1(.2) Map and Air Photo Interpretation (Group C) requisite: GPY 203.1(.2) and 204.1(.2).

first part of the course will focus on the properties,
pretation, and analysis of official series maps such as
cographic maps, land capability maps, and nautical charts. This
be followed by an analysis of the properties of aerial
cographs and the principles of airphoto interpretation.

lasses 2 hrs. and lab 2 hrs. a week. 1 semester.

21.1(.2) Geography of Manufacturing (Group A) Trequisite: GPY 214.1(.2).

course concerns the identification of key factors, and a cussion of their influence, in the geographical distribution and cation of manufacturing industries. Both location theory and see studies are used to analyze the location of these industries. Imples include iron and steel, motor vehicles, and oil refining.

22.1(.2) Systems of Cities (Group A)

25.1(.2) Cross-listed as GEO 325.1(.2) Sediments and positional Environments (Group B) requisite: GPY 213.1(.2) or GEO 200.0.

26.1(.2) Statistical Methods for Geographers (Group C) arequisite: GPY 213.1(.2) or 214.1(.2).

les course introduces students to methods and problems in the lection, description, and analysis of geographic data. Included re descriptive and inferential statistics for spatial data, gression and correlation, analysis of patterns, and use of letistical package programs.

Passes 2 hrs. and lab 2 hrs. a week. 1 semester,

129.1(.2) Cultural Ecology (Group A)

32.1(.2) Geography of Transportation (Group A) erequisite: GPY 214.1(.2).

Inis course provides an overview of the geographic study of insportation. Topics for consideration include: the causes of overnent, measurement of distance, the cost of transportation and its influence in economic geography, the analysis of insportation networks, and the modelling of transportation tws. All transport modes are considered but emphasis is placed in land and air transport.

33.1(.2) Biogeography (Group B) erequisite: GPY 213.1(.2).

study of the spatial and temporal distribution of plants and plants on Earth. Local to global scale patterns of species stribution in terrestrial and marine environments are explained by examining physical controls, ecological principles, and human hopacts. Species changes over space and time are described by byering evolution, migration, succession, and extinction.

Examples are drawn from Atlantic Canada where possible.

336.1(.2) Principles of Cartography (Group C) Prerequisite: GPY 203.1(.2) and 204.1(.2).

An introduction to the design, compilation, and construction of maps and diagrams. Topics include map projections, scale change and generalization, lettering, symbolization, graphs, and colour. The major types of thematic mapping (proportional symbols, isopleths and choropleths) are studied.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester.

339.0 Cultural Geographies (Group A) Prerequisite: GPY 204.1(.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).

340.1(.2) Geography of Nova Scotia (Group D) Prerequisite: at least 5.0 credits.

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.

343.1(.2) Weather and Climate (Group B) Prerequisite: GPY 213.1(.2).

An investigation of weather and climate systems on Earth across

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.

353.1(.2) Nature and Development of Physical Geography (Group B)

Prerequisite: GPY 213.1(.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.

356.1(.2) Remote Sensing of the Environment (Group C) Prerequisite: GPY 316.1(.2).

A study of the sensing, storage, and analysis of remotely sensed digital imagery. Particular emphasis will be placed on the application of remote sensing to land use management, environmental management, and marine studies.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester.

360.1(.2) Geography of Japan (Group D) Prerequisite: at least 5.0 credits.

This course stresses relationships between Japan's diverse physical environments and patterns of human occupance 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.

364.1(.2) Geography of Shipping (Group A) Prerequisite: GPY 214.1(.2).

The course considers the spatial dynamics of the world shipping industry. Topics for discussion include: theories of international trade, oceanic shipping's importance to world trade, bulk trade patterns, general cargo trade patterns, the changing time-space relationships associated with increasing ship size and new types of ships and the importance and development of the world's merchant fleet with particular emphasis on Canada.

366.1(.2) Field Techniques and Research Methods (Group C) Prerequisite: GPY 213.1(.2) or 214.1(.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. 1 semester.

374.1(.2) Geography of Ports (Group A) Prerequisite: GPY 214.1(.2).

The course considers the seaport as a modem transport node. Topics for discussion include: locational characteristics of ports; the "gateway" function vs. the terminal function of port cities; the process of hinterland penetration and foreland development; and port competition and planning.

379.1(.2) Cross-listed as ANT 379.1(.2) and IRS 379.1(.2) Irish Material Culture (Group A)

380.1(.2) Geography of China (Group D) Prerequisite: at least 5.0 credits.

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.

386.1(.2) [686.1(.2)] Concepts in Geographical Information Systems (GIS) (Group C)
Prerequisite: GPY 206.1(.2).

The course continues the introduction to GIS begun in GPY 206.1(,2). Further consideration is given to GIS data structures, data input, storage and editing, spatial analysis, and output. The course stresses raster-based GIS, but vector-based GIS are also considered.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester.

390.1(.2) Geography of Ireland (Group D) [IRS 391.1(.2)]

Prerequisite: at least 5.0 credits.

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.

406.1(.2) Seminar in Theoretical Geography (Group D) Prerequisite: Year 3 and Year 4 students in geography.

Students will be made familiar with major advances in theoretical and philosophical aspects of geography.

413.1(.2) Coastal Geomorphology (Group B) [GEO 476.1(.2)]

Prerequisite: GPY 313.1(.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 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. 1 semester. Some field way be required.

414.1(.2) [614.1(.2)] Integrated Coastal Zone Management (Group D)

Prerequisite: GPY 206.1(.2) and either GPY 304.1(.2) or 315.1(.2).

Spatial approaches to the integrated planning and management of the coastal zone within a sustainable development framewill 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 management and planning tools.

Classes 2 hrs. and 2 hrs. lab or field work a week. 1 semested

416.1(.2) Seminar in Applied Geography (Group D) Prerequisite: Year 3 and Year 4 students in geography.

Role of the geographer and geographical studies in fields sugle environmental, regional and urban planning; resource management; mapping and surveys; and marketing.

423.1(.2) Glacial Geomorphology (Group B) [GEO 475.1(.2)]

Prerequisite: GPY 313.1(.2) or GEO 373.1(.2).

The study of geomorphological processes and landforms in glaciated environments. Emphasis will be placed on description 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 . 1 semester.

424.1(.2) Cross-listed as ENV 450.1(.2) Natural Resource Management (Group D)

432.1(.2) [632.1(.2)] Social Geography of the City (Group) Prerequisite: GPY 312.1(.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 place 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.

433.1(.2) Fluvial Geomorphology (Group B) Prerequisite: GPY 313.1(.2) [GEO 373.1(.2)] or GEO 325.1(.2) [GPY 325.1(.2)].

This course examines processes and landforms associated wrivers. Topics include channel processes and morphology, sedimentology and depositional environments. Case studies human impacts on river systems are also presented.

Classes 2 hours and lab 2 hours a week. 1 semester.

436.1(.2) [636.1(.2)] Advanced Remote Sensing (Group C)

439.1(.2) [639.1(.2)] Urban Historical Geography (Group A)
Prerequisite: one (1.0) 300-level geography credit.

The geography of the city (its morphology and function) is employed as an indication of the landscape impression products by various historical periods (conceived as cultures) during the evolution of urban forms in Europe and North America.

mples are taken in historical sequence from Greek to strial times.

1.1(.2) [642.1(.2)] Urban Planning (Group A) equisite: GPY 312.1(.2).

mines the physical and environmental planning of urban with special reference to current practice in Nova Scotia. ics include the emergence of modern town planning, the ring Act, planning process, structure plans, general and wal urban allocation models, municipal plans, zoning, division control, site planning, urban renewal, and new towns. e costs and benefits of planning are appraised.

43.1(.2) Natural Hazards (Group B)

1(.2) Cross-listed as ENV 460.1(.2) Methods of International Action of the International International Internation of the International Internation of the International Internation of the International International International International International Internation

-3.1(.2) Tourist Geographies (Group A) equisite: GPY 339.0.

course is concerned with the meanings of tourist places. ming" refers to the symbolic, historic, or natural significance The geographies involved in attracting people to some places ther than others. The course examples range from theme ike Disneyland to world heritage sites like Lunenburg. As my examples as possible are taken from Nova Scotia areas.

2.1(.2) [652.1(.2)] The Geography of Urban Transportation Eroup A)

requisite: one of GPY 312.1(.2), 332.1(.2), or 364.1(.2).

s course focuses on patterns and processes of movement Thin cities. Topics for consideration include: the role of esportation in shaping urban form, transportation problems in es today, the urban transportation planning process, patterns bublic transit and automobile use, environmental impacts of man transportation, the communications-transportation trade off.

\$4.1(.2) Bay of Fundy: Environments and Issues (Group D) requisite: GPY 213.1(.2) or GPY 214.1(.2) and one half credit 5) in GPY at the 300 level or above or ENV 300.1(.2).

is Interdisciplinary course examines physical, biological and uman environments, processes and issues in the Bay of Fundy ion from both a historical and a contemporary view. Topics dude physical and biological processes such as tides and ogical productivity, ecosystems such as tidal flats and marshes, settlement patterns, and resource use. Emphasis is ced on current issues and solutions.

sses 2 hours and seminar 2 hours a week. 1 semester.

465.1(.2) Cross-listed as GEO 465.1(.2) Sedimentology (Group B)

Prerequisite: GPY 325.1(.2) or GEO 325.1(.2).

466.1(.2) and 467.0 Directed Study (Group D)

496.1(.2) [696.1(.2)] Applications in Geographical Information Systems (Group C)

Prerequisite: GPY 386.1(.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. 1 semester.

526.0 Honors Research Project (Group D) Prerequisite: honors standing in geography.

Honors 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:

GPY 602.0	Directed Studies in Urban/Regional Geography
GPY 603.0	Directed Studies in Environmental Geography
GPY 604.0	Directed Studies in Marine Geography
GPY 605.0	Directed Studies (General)
GPY 612.1(.2)	Directed Studies in Urban/Regional Geography
GPY 613.1(.2)	Directed Studies in Environmental Geography
GPY 614.1(.2)	Coastal Zone Planning
GPY 615.1(.2)	Directed Studies (General)
GPY 624.1(.2)	Directed Studies in Marine Geography
GPY 632.1(.2)	Social Geography of The City
GPY 636.1(.2)	Advanced Remote Sensing
GPY 639.1(.2)	Urban Historical Geography
GPY 642.1(.2)	Urban Planning
GPY 652.1(.2)	The Geography of Urban Transportation
GPY 686.1(.2)	Concepts in GIS
GPY 696.1(.2)	Applications in GIS

For further information, please consult the Chairperson of the Department of Geography.

Geology (GEO)

mairperson, Professor Professors

Esociate Professor

J. Dostal G. Pe-Piper

Q. Siddiqui

We are directly dependent on the Earth for our survival. Geology sthe study of the Earth, its materials, the processes that affect surface and interior, and the history of change that it has intergone. For students enrolled in the degree of Bachelor of Brience with a concentration, major, or honors in geology, the Epartment offers a full program of courses. Many of these burses may also be taken by students majoring in other science bjects. A combined geology/geography program emphasizes environmental aspects of geology, and a program combining belogy and business studies emphasizes the economic aspects the Earth. In addition, a number of courses are offered for nonbeince 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 major and honors programs in geology, should take GEO 200.0. This course provides a broad survey of the discipline, with practical experience provided through labs and field trips. Courses in mineralogy (GEO 301.1, 302.2) and the history of life (GEO 320.1, GEO 321.2) are also recommended as supporting science subjects for students majoring in other sciences.

GEO 202.1(.2), GEO 203.1(.2) and GEO 208.1(.2) are designed chiefly for students in Commerce and Arts, including Atlantic Canada Studies. In exceptional cases where a student has taken GEO 202.1(.2) and GEO 203.1(.2) (previously GEO 204.0) with high standing, those courses may, with the permission of the

Department, be accepted in the geology major or honors program in lieu of GEO 200.0.

Students in the major and honors 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 300, 400 and 500-level courses may be waived with the permission of the Department.

1. Geology Major

The courses of the core program for a student majoring in geology are:

GEO 200.0 Introduction to Earth Science

GEO 301.1(.2) Mineralogy

GEO 302.1(.2) Optical Mineralogy

GEO 312.1(.2) Igneous Petrology

GEO 313.1(.2) Metamorphic Petrology

GEO 320.1(.2) History of Life

GEO 321.1(.2) Palaeontology

GEO 325.1(.2) Sediments and Depositional Environments

GEO 326.1(.2) Sedimentary Petrology and Stratigraphy

GEO 413.1(.2) Structural Geology

At least two of:

GEO 441.1(.2) Mineral Resources.

GEO 442.1(.2) Economic Mineral Deposits

GEO 466.1(.2) Petroleum Geology

Students are required to take at least one-half (0.5) additional geology credit for a minimum total of seven (7.0) credits in the Department. It is strongly recommended that all geology major and honors students take GEO 300.1(.2) Field Methods.

The following first and second year course selections are recommended for students in the major and honors programs in geology:

Year 1

- 1. GEO 200.0
- 2. MAT 210.1(.2) and 211.1(.2)
- 3. non-geology science elective (1.0)
- LEGL 201.1(.2) and either EGL 203.1(.2) or 204.1(.2)
- 5. non-science elective (1.0)

Year 2

- 1. GEO 301.1(.2) and 302.1(.2)
- 2. GEO 320.1(.2) and 321.1(.2)
- 3. GEO 325.1(.2)
- 4. GEO 300.1°
- 5. non-geology science elective (1.0)
- 6. non-science elective (1.0)
- *Geo 300.1 may also be taken in a later year of the program

For subsequent years, students should consult the Departmental Chairperson.

2. Geology Honors

The honors program requires GEO 550.0 in addition to the core courses for majors, supplemented by sufficient geology courses for a minimum of ten (10.0) credits.

3. Double Major and Honors

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 six (6.0) geology credits from the following list:

GEO 200.0 Introduction to Earth Science

GEO 301.1(.2) Mineralogy

GEO 302.1(.2) Optical Mineralogy

GEO 312.1(.2) Igneous Petrology

GEO 313.1(.2) Metamorphic Petrology

GEO 320.1(.2) History of Life

GEO 321.1(.2) Palaeontology

GEO 325.1(.2) Sediments and Depositional Environments

GEO 326.1(.2) Sedimentary Petrology and Stratigraphy

GEO 340.1(.2) Surface and Groundwater Hydrology GEO 350.1(.2) Environmental Geoscience Issues

GEO 413.1(.2) Structural Geology

GEO 414.1(.2) Global Geology

GEO 441.1(.2) Mineral Resources

GEO 442.1(.2) Economic Mineral Deposits

GEO 453.1(.2) Principles of Geochemistry

GEO 454.1(.2) Applied Geochemistry

GEO 465.1(.2) Sedimentology

GEO 466.1(.2) Petroleum Geology

For a double honors, students must complete at least seven (7 credits from the above list. In addition, students who are taking their thesis in geology must take Geo 550.0 for a total of at least eight (8.0) geology credits

4. Geology/Geography Combined Programs

These programs offer Bachelor of Science and Bachelor of Science (Honors) degrees, emphasizing environmental Earth Science, under the general requirements of the Faculty of Science. The geology/geography major program requires a minimum grade of C in all geology and geography courses. The geology/geography honors program requires (a) a minimum grade of C in all geology and geography courses; and (b) a minimum quality point average of 3.00 in these same courses.

a. Geology/Geography Major (Bachelor of Science)

 At least 6.0 credits from the list of geology courses under 'Double Major and Honors', above.

ii. At least six (6.0) geography credits including:

GPY 203.1(.2) Physical Geography: Global Patterns

GPY 213.1(.2) Physical Geography: Local and Regional Pattern

GPY 204.1(.2) Demographics and Culture

GPY 313.1(.2) Geomorphology

GPY 316.1(.2) Map and Air Photo Interpretation

GPY 336.1(.2) Principles of Cartography

At least 2.0 credits from:

GPY 304.1(.2) Environmental Management

'GPY 314.0 The Oceans: A Physical Geography

GPY 333.1(.2) Biogeography

GPY 413.1(.2) Coastal Geomorphology

GPY 423.1(.2) Glacial Geomorphology

One (1.0) additional credit: any geography course(s).

Geology/Geography Honors Program (Bachelor of Science: Honors)

In addition to the above requirements, honors students must complete:

i. GEO 550.0 Honors Project or GPY 526.0 Honors Researd
Project;

il. one (1.0) additional geology credit from the list in paragraph 3,above; and

III. GPY 406.1(.2) Seminar in Theoretical Geography and GP1 416.1(.2) Seminar in Applied Geography.

In the honors Bachelor of Science geology/geography program topics for honors theses should be approved by both Department and may be carried out in either Department.

5. Geology/Business Studies Combined Programs

The Department of Geology and the Faculty of Commerce offerladouble major/honors science degree combining a major/honors 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

ence honors degrees, under the general requirements of the bulty of Science. For a combined major degree, students will equired to take a minimum of seven (7.0) credits in the bulty of Commerce in addition to at least six (6.0) Geology its. In the honors program, a thesis on a field interrelating the disciplines will be required. Students enrolled in the thined geology/business studies major/honors may also sue a co-op option in this dual program. The program appeals beology students with an interest in the business-related ects of their major.

e geology/business studies major program requires a minimum of C in all geology and commerce courses while the bgy/business studies honors program requires (a) a minimum de of C in all geology and commerce courses; and (b) a imum quality point average of 3.00 in these same courses.

le following courses are required for the Geology/Business dies Major (B.Sc.)

Commerce Faculty Requirements (total 7.0 credits)

241.1(.2)	Introductory Accounting I
CC 242.1(.2)	Introductory Accounting II
DC 332.1(.2)	Planning and Control
14. 201.1(.2)	Legal Aspects of Business - Part I
DM 293.1(.2)	Managerial Communications
201.1(.2)	Principles of Economics: Micro
202.1(.2)	Principles of Economics: Macro
360.1(.2)	Business Finance I
361.1(.2)	Business Finance II
ST 281.1(.2)	Introduction to Business Management
BT 383.1(.2)	Organizational Behaviour I
ST 384.1(.2)	Organizational Behaviour II
ST 489.1(.2)	Strategic Management

Geology Requirements (at least 6.0 credits)

EO 200.0	Introduction to Earth Science
EO 208.1(.2)	Environmental Geology
EO 300.1(.2)	Field Methods
EO 301.1(.2)	Mineralogy
EO 312.1(.2)	Igneous Petrology
EO 320.1(.2)	History of Life
EO 325.1(.2)	Sediments and Depositional Environments
EO 340.1(.2)	Surface and Groundwater Hydrology
EO 350.1(.2)	Environmental Geoscience Issues
EO 373.1(.2)	Geomorphology
EO 413.1(.2)	Structural Geology
EO 414.1(.2)	Global Geology
EO 441.1(.2)	Mineral Resources
EO 442.1(.2)	Economic Mineral Deposits
EO 453.1(.2)	Principles of Geochemistry
EO 454.1(.2)	Applied Geochemistry

Petroleum Geology

Introduction to Marketing

Other Requirements

EO 466.1(.2)

KT 270.1(.2)

MAT 210.1(.2) and 211.1(.2) or 212.1(.2) or 316.1(.2). two (2.0) science elective credits other than Geology, e.g., ogy, Psychology, Chemistry, Physics, and Mathematics iding MAT 207.1(.2), and BIO 308.1(.2). one-half (0.5) elective credit in statistics that covers ability theory including MAT 207.1(.2), MSC 207.1(.2), GPY #(.2), BIO 308.1(.2) and ECO 303.1(.2). one (1.0) credit from Faculty of Arts' offering including GPY N(.2) and ECO 303.1(.2).

EGL 201.1(.2) and either EGL 203.1(.2) or 204.1(.2).

one and one-half (1.5) elective credits from any faculty.

Students must take FIN 361.1(.2), MKT 270.1(.2) and MGT 1(.2) before registering for MGT 489.1(.2). The other equisites for this course are waived for students in this

Students must register no later than the beginning of Year 2 the science program and will be under the general irements of the Faculty of Science.

addition to the above requirements, Geology/Business Studies

Honors students must complete GEO 550.0 Honors Project as one of the Geology requirements.

Cooperative Education Programs

Co-operative Education in Geology

This program, which is available at both the major and honors 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 honors level, with the added qualification of "Cooperative Education".

Further details and regulations on the Faculty of Science Cooperative Education program are found in Section 3 of this Calendar.

Combined Co-operative Education in Geology/Geography

The students enrolled in the combined geology/geography major/honors 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 Cooperative Education program are found in Section 3 of this Calendar.

Combined Co-operative Education Program in General **Business Studies/Geology**

The students enrolled in the combined geology/business studies major/honors 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/honors programs.

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 five (5.0) credits, including GEO 202.1(.2) or GEO 200.0; no more than two (2.0) credits below the 300-level can be counted toward the minor in Geology.

200.0 Introduction to Earth Science

The Earth as a dynamically evolving planet and how we study it; its rocks and minerals; surface processes of erosion and deposition by water, wind and glacial ice; the fossil record and measurement of time; internal processes active within the Earth that give rise to volcanoes, earthquakes, continental drift, and the generation of new ocean floors. Geological evolution of North America.

Laboratories include field trips, geological maps and mapping, and recognition of minerals and rocks.

Classes 3 hrs. and lab 3 hrs. a week. 2 semesters.

202.1(.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.

Note: This course partially replaces GEO 204.0. Students cannot receive credit for both GEO 204.0 and GEO 202.1(.2). No credit will be given for this course subsequent to GEO 200.0.

203.1(.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.

Note: This course partially replaces GEO 204.0. Students cannot receive credit for both GEO 204.0 and GEO 202.1(.2). No credit will be given for this course subsequent to GEO 200.0.

206.1(.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.

207.1(.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.

208.1(.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.

Note: This course replaces GEO 205.0. Students cannot receive credit for both GEO 205.0 and GEO 208.1(.2).

300.1(.2) Field Methods

Prerequisite: GEO 200.0 and attendance at field camp.

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.

301.1(.2) Mineralogy

Prerequisite: GEO 200.0 (which may be taken concurrently).

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.

302.1(,2) Optical Mineralogy

Prerequisite: GEO 301.1(.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.

305.1(.2) Geophysics Prerequisite: GEO 200.0

The physics of the Earth, including rotation, gravity, seismologiand internal structure, magnetic and electrical properties, radioactivity, and the Earth's heat. Geophysical exploration of Earth's crust, including seismic refraction, seismic reflection, magnetic, gravity and electrical methods.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

312.1(.2) Igneous Petrology

Prerequisite: GEO 302.1(.2).

This course emphasises the mineralogical and chemical characteristics of igneous rocks, and their classification, petrography, and tectonic setting. The processes responsible the evolution of diverse igneous rock associations are also considered. Laboratory work involves the study of igneous rock in hand sample and thin section.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

313.1(.2) Metamorphic Petrology Prerequisite: GEO 302.1(.2).

This course introduces aspects of the description and

Inis course introduces aspects of the description and interpretation of metamorphic rocks by citing the effects of the progressive metamorphism of mafic, pelitic and carbonate rod Other topics include the use of composition-assemblage diagrams, methods of quantitative geothermobarometry, and 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.

320.1(.2) History of Life

Prerequisite: one of GEO 200.0, GEO 202.1(.2), GEO 208.1(2 or BIO 200.0; or GPY 213.1(.2).

An account of the 3500 million-year history of life on Earth, including theories of the origin of life, and modes of preservation of organisms as fossils. It also covers the phenomenon of evolution and some major patterns and crises in the history of life.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

321.1(.2) Palaeontology

Prerequisite; GEO 320.1(.2).

The morphology, classification and stratigraphic ranges of the main groups of invertebrate fossils. Emphasis is placed on the uses of fossils in elucidating stratigraphy, the environment und which strata accumulated, and world geography in those time.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

325.1(.2) Sediments and Depositional Environments [GPY 325.1(.2)]

Prerequisite: GEO 200.0 or GPY 213.1(.2).

Weathering and the origin of sedimentary materials. Introduct to sediments and sedimentary rocks. Processes of sedimentary and the origin of sedimentary structures. Interpretation of class and carbonate sedimentary rocks in the light of companson with modern environments in non-marine, marginal manne, and marine settings.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

326.1(.2) Sedimentary Petrology and Stratigraphy

Prerequisite: GEO 302.1(.2) and 325.1(.2) (which may be taked concurrently).

s, including conglomerates, sandstones and shales.

ponents and diagenesis of the main classes of non-clastic thentary rocks including carbonates, evaporites, siliceous and rich sediments. Stratigraphy: correlation and the definition of the stratigraphic units in outcrop and in the subsurface.

Informities, sequences, sea-level change, and the pretation of the stratigraphic record.

bases 3 hrs. and lab 3 hrs. a week. 1 semester.

1(.2) Introduction to Micropalaeontology equisite: GEO 321.1(.2).

iniques for the collection, preparation and identification of of the collection, preparation and identification of of the collection, preparation and identification of the collection of the collec

lesses 3 hrs. and lab 3 hrs. a week. 1 semester.

1(.2) Cross-listed as CHE 332.1(.2) Introductory

1.2) Cross-listed as CHE 333.1(.2) Introductory

1.1(.2) Paleobotany equisite: GEO 200.0 or BIO 200.0.

course will trace the two billion year fossil record of plant wition in the context of adaptation to Earth's changing praphy and climate through geologic time. Particular attention be paid to the development of terrestrial ecosystems in the bozoic and to the world class fossil sites of Nova Scotia, unding the paleobotany of coal. Ontogeny and paleoecology be linked as will taphonomy and paleoenvironments.

Development of the student with the taxonomy of fossil as, their modes of preservation and practical problems in the pretation of their record.

psses 3 hrs. and lab 3 hrs. a week. Field trips. 1 semester.

L1(.2) Surface and Groundwater Hydrology equisite: one of GEO 200.0, 202.1(.2), 208.1(.2); or GPY (.2).

course examines the fundamentals of hydrology, including precipitation, infiltration and storage of water. It emphasizes stical approaches to the examination of water supply, the tament of groundwater through various geological materials, andwater exploration, contaminant modelling and water through various geological materials, andwater exploration, contaminant modelling and water through various geological materials.

sses 3 hrs. and lab 3 hrs. a week. 1 semester.

(1(.2) Environmental Geoscience Issues
equisite: GEO 200.0 or GEO 208.1(.2) or GPY 203.1(.2).

course examines issues such as risk assessment and liction of natural hazards (earthquakes, volcanoes, floods); ways and sinks of pollutants in surface and groundwaters; environmental implications of global change, industrial lining and environmental impacts; geological criteria in the fronmental assessment process; the roles of monitoring lining assessment and modelling in environmental problems.

psses 3 hrs. and lab 3 hrs. a week. 1 semester.

14(.2) Geomorphology Y 313.1(.2)]

equisite: GEO 200.0 or GPY 213.1(.2).

study of geomorphological processes and related landforms, an emphasis on fluvial activity. Processes of weathering, soil attion, slope development and river action will be discussed. Coratory work will include methods of field and data pretation, soil analysis, sediment analysis and anorphological mapping.

Classes 2 hrs. and lab 2 hrs. a week. 1 semester. Some field work may be required.

400.0 International Field Camp

Prerequisite: GEO 200.0, 300.1(.2), 301.1(.2), 325.1(.2), and permission of 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.

Field camp.

413.1(.2) Structural Geology Prerequisite: GEO 325.1(.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.

414.1(.2) Global Geology

Prerequisite: GEO 200.0; and at least one of GEO 312.1(.2), 325.1(.2), and 413.1(.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.

429.1(.2) Cross-listed as BIO 429.1(.2) Quaternary Palynology and the History of Vegetation Students taking this course for a geology credit must have a credit for GEO 200.0.

441.1(.2) Mineral Resources Prerequisite: GEO 200.0.

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.

442.1(.2) Economic Mineral Deposits Prerequisite: GEO 441.1(.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.

450.1(.2) Advanced Igneous Petrology Prerequisite: GEO 312.1(.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.

451.1(.2) Advanced Metamorphic Petrology Prerequisite: GEO 313.1(.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 centred on the acquisition and manipulation of microprobe data.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

453.1(.2) Principles of Geochemistry

Prerequisite: GEO 200.0.

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.

454.1(.2) Applied Geochemistry

Prerequisite: GEO 200.0.

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.

482.1(.2) Micropalaeontology of Ostracoda and Foraminifera Prerequisite: GEO 321.1(.2) or 330.1(.2) (which may be taken concurrently).

A detailed study of Ostracoda and Foraminifera with particular reference to their morphology, taxonomy, ecology, and biostratigraphy. The use of these microfossils in oil exploration will be emphasized.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

465.1(.2) Sedimentology

[GPY 465.1(.2)]

Prerequisite: GEO 325.1(.2) or GPY 325.1(.2).

Dynamics of fluid flow and transport of sediment by air, water and ice. Analysis of modem sedimentary environments including terrestrial, lacustrine, marginal manne, 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.

466.1(.2) Petroleum Geology

Prerequisite: GEO 200.0.

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.

475.1(.2) Cross-listed as GPY 423.1(.2) Glacial

Geomorphology

Prerequisite: GEO 373.1(.2) or GPY 313.1(.2).

476.1(.2) Cross-listed as GPY 413.1(.2) Coastal Geomorphology

518.1(.2) Canadian Regional Tectonics

Prerequisite: GEO 413.1(.2).

This course is intended to synthesize the various aspects of geology treated in more specialized courses through an analysi 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.

530.1(.2) Directed Study in Geology

Prerequisite: restricted to Year 4 students in the honors progra or permission of Department.

Intended to supplement or provide an alternative to the regular geology courses in order to meet the special needs and interest 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.

540.1(.2) Special Topics in Geology

Prerequisite: restricted to Year 4 students in the honors 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.

550.0 Honors Project

Prerequisite: honors standing and permission of Departmen

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.

565.1(.2) Advanced Sedimentology

Prerequisite: restricted to Year 4 students in the honors progra

Detailed study of selected depositional environments and sedimentary facies. Analysis of sedimentary strata including Canadian examples. Quantitative methods of facies analysis the application of statistical methods in sedimentology. Methofor 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.

Global Business Management (GBM)

s program is administered by the Department of Management.

Committee on Global Business Management

Chamard, Coordinator

Management

Charles

Finance and Management Science

Mukhopadhyay

Economics

Ogden

Secord

Marketing Accounting

topic "Globalization of Business" has received considerable mention in all media for several years. The focus has been reasingly on the lack of competitiveness of Canadian companies mationally. Now even small entrepreneurs have to compete ainst foreign companies. Multinational organizations hire and insfer employees around the globe. Japanese and Canadians, mans and Australians, Chinese and Malaysians learn to work bether, to communicate effectively, and to manage as a global mm, with synergy instead of conflict.

managers wish to deal with the rest of the world on the same basis, must learn to adapt psychologically, to communicate effectively, interact socially with other cultures. Global managers are pected to speak more than one foreign language. The Bachelor of mmerce in Global Business Management offers the opportunity to the skills essential for a successful career in this arena.

201.1(.2) Principles of Economics: Micro

202.1(.2) Principles of Economics: Macro

201.1(.2) English Composition

L 203.1(.2) An Introduction to Literature I

204.1(.2) An Introduction to Literature II

GT 281.1(.2) Introduction to Business Management

SC 205.1(.2) Introduction to Quantitative Methods for Commerce I

SC 206.1(.2) Introduction to Quantitative Methods for Commerce II

SC 225.1(.2) Introduction to Computers

pguage elective one (1.0) credit (Chinese, French, German,

anese, or Spanish)

C 241.1(.2) Introductory Accounting - Part I

C 242.1(.2) Introductory Accounting - Part II

201.1(.2) Legal Aspects of Business - Part I

DM 293.1(.2) Managerial Communications

IST 383.1(.2) Organizational Behavior I

IST 384.1(.2) Organizational Behavior II

270.1 (.2) Introduction to Marketing

SC 207.1(.2) Introductory Statistics for Commerce

momics elective (1.0)

332.1(.2) Planning and Control

C 357.1(.2) International Accounting

360.1(.2) Business Finance I

361.1(.2) Business Finance II

T 375.1(.2) International Marketing

guage elective one (1.0) credit (same language as Year 1

graphic elective one (1.0) credit [see note (a) below]

half (0.5) credit fee elective (0.5)

476.1(.2) International Financial Management

\$\text{37 488.1(.2)} International Business Management

GT 489.1(.2) Strategic Management

poraphic elective one (1.0) credit [see note (b) below] mate elective one (1.0) credit [see note (c) below]

me electives (1.5)

Notes:

Elective must be selected from the approved lists below for one of the following regions: Africa, Americas, Asia, or Europe.

Elective must be selected from the approved lists below for one of the regions (Africa, Americas, Asia, or Europe) different from the Year 3 geographic credit.

Elective must be selected from the geographic area lists or cognate elective list below. If ECO 306.1(.2), ECO 310.1(.2), ECO 312.1(.2), ECO 315.1(.2), ECO 365.1(.2), ECO 406.1(.2), ECO 410.1(.2), ECO 412.1(.2), ECO 413.1(.2), or ECO 414.1(.2) were used to satisfy the economics elective(s) in Year 2, the number of free electives is increased to 2.0 or 2.5 as appropriate.

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.

Notwithstanding the course substitutions possible in notes (c) and (d), all students must complete at least 3.0 non-commerce electives.

Approved Electives Offered at Saint Mary's University **Africa**

HIS 316.1(.2) Africa in the 19th Century: Intrusion and Conquest HIS 317.1(.2) Africa in the 20th Century: Colonialism and Independence

HIS 322.0 South Africa

HIS 326.1(.2) History of West Africa: 1600-1960 POL 327.0 Government and Politics in the Middle East

REL 323.1(.2) The Islamic Religious Tradition

Americas

ECO 306.1(.2) North American Economic History

ECO 406.1(.2) Canadian Economic History in an International Context

HIS 251.0 The United States: 1865 to the Present

HIS 310.0 Anglo-American History: Studies in Pre-Industrial Labour and Culture, 1600-1865

HIS 318.0 The United States in the 20th Century

HIS 330.0 American Social and Intellectual History

HIS 333.0 History of Canada in the 20th Century

HIS 361.1(.2) Canadian Business History, 1820-1867

HIS 362.1(.2) Canadian Business History, 1867-1930

HIS 375.0 Modem Latin America

HIS 385.0 [IDS 385.0] Aspects of Global History: One Earth, Many Worlds

IDS 421.1(.2) Special Topics in Development Studies

MGT 493.1(.2) Business-Government Relations in Canada

POL 315.0 Canadian Foreign Policy

POL 440.0 Canadian-American Relations since World War II

REL 355.1(.2) Religion and Social Issues in Canada

SPA 305.0 Contemporary Spanish Society

Asia

ANT 311.1(.2) Ethnology: Melanesia

ANT 312.1(.2) Ethnology: Polynesia and Micronesia

ANT 326.1(.2) Ethnology: East Asia

ANT 327.1(.2) Ethnology: Japan

ASN 300.1(.2) Multidisciplinary Study of Asia

ASN 303.1(.2) Contemporary Japan: Institutions and Culture

ASN 400.1(.2) Seminar in Asian Studies

ASN 450.1(.2) China, Eternal and Transforming: Travel and Study

GPY 330.0 Geography of China

GPY 360.1(.2) Geography of Japan

HIS 209.0 East Asia: From Prehistory to Modern Times

HIS 323.0 China Before 1800

HIS 325.0 Asian Crossroads: Southeast Asia, 1600 to Independence

HIS 342.0 Survey of Modern China

HIS 354.1(.2) Traditional Japan: History and Culture

HIS 381.1(.2) East Asia and the West to 1800
HIS 382.1(.2) East Asia and the West Since 1801
HIS 385.0 [IDS 385.0]Aspects of Global History:One Earth, Many Worlds
HIS 394.1(.2) The Emergence of Modern Korea

HIS 396.1(.2) China and Japan in the 20th Century: Ideology, State and Society

IDS 420.1(.2) Special Topics in Development Studies

REL 323.1(.2) The Islamic Religious Tradition
REL 326.1(.2) The Hindu Religious Tradition
REL 327.1(.2) The Buddhist Religious Tradition
REL 337.1(.2) Hindu and Buddhist Religious Art
REL 340.1(.2) Japanese Religious Traditions
REL 345.1(.2) Chinese Religious Traditions

SOC 447.1(.2) [WMS 447.1(.2)] Work and the Empowerment of Wornen in India

Europe

FRE 310.1(.2) Introduction to French Culture GER 304.0 German Culture and Civilization HIS 304.0 Europe 1848-1989

HIS 305.0 History of Russia and the U.S.S.R. HIS 306.0 Images and European History

HIS 310.0 Anglo-American History: Studies in Pre-Industrial Labour and Culture, 1600-1865

HIS 339.0 Russia and the U.S.S.R. Since 1917

HIS 385.0 [IDS 385.0] Aspects of Global History: One Earth, Many Worlds

POL 314.1(.2) Development Practice: Politics of Developing Areas

Cognate Electives

ANT 301.1(.2) Nature of Culture

ANT 303.1(.2) [WMS 303.1(.2)] Women: A Cultural Perspective

ANT 304.1(.2) Egalitarian Societies

ANT 305.1(.2) Chiefdoms

ANT 307.1(.2) Applied Anthropology

ANT 308.1(.2) Anthropology and Development

ANT 309.1(.2) Peasant Society and Culture

ANT 336.1(.2) Foundations of Psychological Anthropology

ANT 337.1(.2) The Individual and Culture in Psychological Anthropology

ANT 338.1(.2) Medicine as Culture ANT 339.1(.2) Medicine in Culture

ANT 475.1(.2) Seminar in Anthropology

ECO 310.1(.2) Development Economics

ECO 312.1(.2) History of Economic Thought ECO 315.1(.2) Comparative Economic Systems

ECO 365.1(.2) International Economic Issues

ECO 410.1(.2) Issues in Economic Development ECO 412.1(.2) History of Modern Economic Thought

ECO 413.1(.2) International Macroeconomics and Finance

ECO 414.1(.2) International Trade

GPY 204.1(.2) Demographic and Culture GPY 214.1(.2) Environment and Livelihood GPY 302.0 The Geography of World Affairs

IDS 401.1(.2) Seminar in Development Studies: Conceptual Foundation

IDS 402.1(.2) Seminar in Development Studies: Contemporalissues

MGT 301.1(.2) Work and Alienation

PHI 310.0 Political Philosophy

PHI 317.1(.2) Philosophy of Economics

PHI 325.1(.2) Ethical Issues in International Development

POL 305.0 International Relations

POL 321.1(.2) International Organization POL 322.1(.2) Politics of International Trade

POL 330.0 Introduction to Public Administration

POL 418.0 International Law

POL 445.0 Introduction to Public Policy

REL 202.0 Introduction to Comparative Religion: When Great Religions Meet

REL 341.1(.2) Violence and Non-Violent: East and West

REL 347.1(.2) Ecology and Religion

SOC 385.1(.2) [IDS 485.1(.2)] Problems of Development SOC 386.1(.2) [IDS 386.1(.2)] Sociology of Developing

Societies

SOC 387.1(.2) [WMS 387.1(.2)] Women and Development

SOC 391.0 Rural Sociology

SOC 420.0 Comparative Regional Development

SOC 422.1(.2) [IDS 422.1(.2); WMS 422.1(.2)] Gender and

Development: Theory and Method

SOC 423.1(.2) [IDS 423.1(.2); WMS 423.1(.2)] Gender and

Development: Policy and Practice

SOC 425.0 Corporate Power and the World Economy

*Courses may be taken at other institutions subject to the approval of the Program Coordinator and the Dean of Commerce.

History (HIS)

Chairperson, Professor

Professors

G. Young

E. Haigh, C. Howell,

J. Morrison, J. Reid,

R. Twomey

Associate Professors B. Kiesekamp

W. Mills, M. Vance

L. Paris, B Sewell,

L. Wamer

R. Pernins

S. Bobr-Tylingo,

O. Carrigan,

J. MacCormack

Departmental Policy

Assistant Professors

Adjunct Professor

Professors Emeriti

To obtain a major in history, students must complete at least six (6.0) history credits, as follows:

- a. one (1.0) but no more than two (2.0) credits at the 200 level;
- b. two (2.0) or more credits at the 300-400 level; and
- c. HIS 400.0 and one (1.0) credit at the 500 level.

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 Registreenrolment in that program after their first year at the University

For an honors degree, students must satisfy the requirements of major program. They must also complete one (1.0) additional history credit at the 300-400 level; two (2.0) additional credits at 500 level, and HIS 500.0 (the honors essay). The program of eastudent must be approved by the Department.

All students majoring in history are strongly advised to take two (2.0) credits 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' Regular Section 3 of this Calendar.

Graduate students should refer to the material entitled "Mastel" Arts in History Degree", Section 3 of this Calendar.

General Course Description

a. History courses numbered at the 200 level are survey course open to students with no university credits in the discipline. The normally lecture courses; some combine lectures with small tutal group meetings. In order to enrol In a 300 or 400 level course, a student must one (1.0) history credit, or at least five (5.0) university credits, he permission of the Chairperson. 300 and 400-level courses are in structured to Include both lectures and seminars.

History courses at the 500 level are normally seminar courses bigned for advanced work by history majors and honors students year 2 and Year 3, and for Master of Arts students.

With regard to renumbered or restructured courses, patents are advised that they are not eligible to take a course credit if they already have a credit for a comparable course, if that course was taken at a different level.

1.0 Civilization in the West

s course is designed to explore the origins and elopment of the characteristic political, legal, and cultural stutions of Western Civilization and its impact on other lures.

13.0 The Twentieth Century

historical approach to the major problems of our time.

phasis will be placed upon the backgrounds to World Wars

II, the emergence of the United States as a world power,

Communist Revolution and its impact, and the problems of

bustrial society.

38.0 Global History: 1450 to the Present

w did we arrive at this point? Global history provides a butext for understanding this development as we move the 21st century. This course will examine the initial links beloped between the world's civilizations during the 15th butury and will trace factors which led to contemporary global braction and Interdependence.

30.0 East Asia: From Prehistory to Modern Times

ization that is becoming increasingly important in today's ind. In addition to the cultural heritage which the countries of ast Asia, i.e., China, Korea, Japan, share in common, this is will examine distinct historical experiences of each intry and the transformation of East Asia in modern times.

5.0 Europe and Canada: Encounter, Enlightenment, Industrialization

we en indigenous peoples and Europeans, the impact of proper and thought and customs, and the importance of momic and social links between the Old World and the Although the course will have a wide chronology, it will sus on the period between the 16th and 19th centuries.

31.0 Canada to Confederation

course will examine early Canadian history from the time the first Indian-European contact up to Confederation. The phasis will be placed on the development of New the Canada, Upper Canada, and the West. Political, the phase is a considered.

32.0 Canada: Confederation to the Present

bis course will examine the shape of political culture In bode m Canada; the debate between the advocates of the bion state and of federalism; and the impact of the trialization, regionalism, war, and depression on that bate.

30.0 The United States to 1877

his course deals primarily with the major themes of American bitory from the colonial period to the Civil War and con struction; the origins and nature of American governmen

con struction; the origins and nature of American government, trics, and society; the origins of slavery and racism; and a nsion. These themes will be approached through a study of the gor groups and events in American history (the New England intains, the Founding Fathers, Southern slaveholders; the American Revolution, the Civil War), as well as major political figures from Thomas Jefferson to Abraham Lincoln.

251.0 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 enrol in the following courses a student must have 1.0 history credit, or at least 5.0 university credits, or the permission of the Chairperson.

304.0 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 It will be considered in some detail.

305.0 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.

306.0 Images and European History

310.0 Anglo-American History: Studies in Pre-Industrial Labour and Culture, 1600-1865

This course examines "pre-industrial" working people (slave and "free") from a comparative perspective. It begins with an overview of the various historical stereotypes of American and English crowds in the 18th century, American slaves from the 17th to the 19th centuries, the English radical and working class movements at the time of the American Revolution. It then looks at the political, economic and cultural lives and attitudes of these groups. Was there a distinctive "popular culture" in history? Did common people have significant ideas and play an active role in the making of history?

313.1(.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.

314.1(.2) British Imperialism, 1760 to the Present British Imperialism, as both an ideal and a practice, c

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 Melboume. 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.

316.1(.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'.

317.1(.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.

318.0 The United States in the 20th Century

Designed for students with a credit 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. Through studies of feminists, Civil Rights activists, and immigrants, for example, students will explore how citizens have imagined their place in the United States, and have at times attempted to redefine relations of power within the nation.

319.0 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

320.0 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.

322.0 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.

323.0 China Before 1800

This course studies the history of China from the earliest times to the end of the 18th century. The first term covers up to around A.D. 960; the remainder is dealt with in the second term. Special attention will be paid to the changes in cultural, institutional, and societal patterns over time.

325.0 Asian Crossroads: Southeast Asia, 1600 to Independence

This course will concentrate on the vibrant and sometimes turbulent countries of Southeast Asia. This area, including Burma, Cambodia, Indonesia, Laos, Malaysia, the Philippines, Singapore, Thailand and Vietnam, has been a confluence for commercial trade and cultural influence for centuries. The course will begin with the indigenous kingdoms and societies, trace European, American, and Asian expansionism and the resultant resistance to it, and examine the rise of the nationalist movements leading to independence in the second half of the 20th century.

326.1(.2) History of West Africa: 1600 to 1960

This course will examine the age of African empires, the European intrusion and imperial expansion, the Islamic revolution, and the slave trade through to independence in the 1960s. The course will also include some analysis of methodology used in African history including archaeology and oral tradition.

327.0 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.

330.0 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 chang on slavery and racism, and on class, ideology, and society, especially in the 18th and 19th centuries.

331.0 The Era of the American Revolution

A course on the American Revolution and its aftermath, especial the major social, political, and intellectual transformations of the Emphasis on the radicalism of the American Revolution and on major problems of historical interpretation.

332.0 Canadian Social History, 1760-1930

This course will trace the development of British North America in a group of predominately agricultural, rural French and English colonies to an industrialized, urban, mixed ethnic nation. Particulatention will be given to the process of Canadianization and the impact of industrialization on social institutions, working condition cultural activities, political ideas and economic development between 1867-1930.

333.0 History of Canada in the 20th Century

A course designed to examine the emergence of Canada's social political and economic structures in the 20th century. Some attention will also be given to Canada's role as an emerging work power, her relationship with the United States, and her role within the British Empire and Commonwealth.

336.1(.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 had demonstrated that this development was accompanied by profou social and economic transformations that were highly contested, 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.

339.0 Russia and the U.S.S.R. Since 1917

This course will deal with Russia and the Soviet Union from the abdication of Tsar Nicholas II to the post-Khrushchev period. An attempt will be made to examine the discrepancies between the theory of communism and its practice, and the possible reasons for that discrepancy. Some time will be spent considering the situation of religion, culture, and the arts in the U.S.S.R.

340.0 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

342.0 Survey of Modern China

This course explores modem Chinese history through an examination of three eras – Late Imperial, Republican, and the People's Republic – and the transitions inherent to each. While chronological, within each era the course will follow a topical approach considering the dynamics of political, economic, and social change so as to provide students with a more analytical understanding of China's tumultuous changes in the last two centuries.

346.1(.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.

- whisky, Mary Queen of Scots, sober Presbyterians, whisky, Mary Queen of Scots, sober Presbyterians, while Prince Charlie, Highland clearances, Edinburgh's neo-basical "New Town", Dundee's Jutopolis, Glasgow's Old Firm thall rivalry, North Sea Oil, Trade Union radicals and attish Nationalists. These contemporary associations with thal draw heavily on the historical experience of the abitants of the Kingdom and, despite their sanitized form, they will provide a survey of Scottish history from the early dem period to the present with a particular focus on how a competing Scottish identities were developed and autionalized.
- 303.0 Cross-listed as CLA 303.0 History of Greece
- ELO Cross-listed as CLA 304.0 History of Rome
- 2.1(.2) The History of Biology equisite: a university course in history or biology.

Purvey of the development and evolution of ideas concerning
 Pature of living things, their form and function, and their
 Possible from the ancient world to the twentieth century.

- 5.1(.2) The History of Environmental Sciences equisite: a university course in history or one of the ences.
- we perceive the world depends upon our culture. The use is a study of western attitudes to nature from antiquity the present. It will examine the development of the fields of traphy, geology, natural history, evolutionary theory, and usingy.
- **A1(.2) Traditional Japan: History and Culture bwing the history of Japan from the beginning to the middle of 19th century, this course will study the shaping of cultural, butional and social features which exert a powerful influence on to this day. The emphasis will be on understanding the factors that have given Japan a distinct outlook and the Japanese a long sense of uniqueness.
- 57.0 Cross-listed as CLA 307.0 Ancient Rome in Flim, Fiction, Fact
- 2.0 Mughal to Modern India: 500 Years of History
 a is the largest democracy in the world. Over the last half
 binnium its history has been marked by architectural and
 blectual achievement, conquest (notably by Islam and the West),
 rise of nationalism in the late 19th century and the early 20th
 blury, and the passive resistance campaign by Gandhi that led
 britually to independence and freedom. This course will explore
 ase and other aspects of Indian history and provide an
 derstanding of India's role in the modem world.

a.0 A History of Women in the Western World and S 360.0]

purvey which examines the role of women in western civilization in the post Roman and early Christian world to the 20th century. Its course will especially concern itself with an historical espective of women's participation in the social and economic life their communities.

the title of banking institutions, and of canal and railway porations.

2.1(.2) Canadian Business History, 1867-1930
his period, corporate business in Canada increasingly came to hitify itself with the national ideal. This course will examine how

this self-understanding shaped a development strategy which had ambiguous consequences for the consumer, for labour, for peripheral areas, and for government accountability.

365.0 The History of Religion and Civil Life in Canada [REL 360.0 (460.0)]

This course will assess the contribution religion made to the shaping of an absolutist and national allegiance in Canada. One of its major concerns will be to detail the impact of pietism, revivalism, and Christian renewal movements on an anti-statist or federalist political allegiance.

372.1(.2) Common History: Sources and Methodology
This course will examine local history with particular reference to the
Atlantic Region. Documentery and non-documentery sources will be
examined and methodology for local history research established.
This course will be of interest to those who have an interest in local,
ethnic, and family history.

373.1(.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.

375.0 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.

376.1(.2) Special Topics: U.S. History
Further details are available from the Chairperson of the
Department.

377.1(.2)-379.1(.2) Selected Topics in History
The subject matter of particular half-credit courses will be
announced from time to time. They will cover aspects of history
in one or more of the three major geographical areas of North
America, Europe and the Third World. The topics to be
examined will be determined by the instructor.

381.1(.2) East Asia and the West to 1800

This course studies the relationship between East Asia and the West from earliest times to the end of the 18th century. Topics for examination include trade, cultural exchange, the role of nomadic peoples in the East-West exchange, and the impact of the European exploration since the late 15th century.

382.1(.2) East Asia and the West since 1800
This course studies the changing nature of the relationship between East Asian countries and the West since the early 19th century. Topics for examination include the encroachment of Western imperialism, the impacts of such developments of Western origin as the industrial revolution, the two World Wars, and the Cold War on East Asia, and the Westernization of East Asian values, mores, and customs.

385.0 Aspects of Global History: One Earth, Many Worlds [IDS 385.0]

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 Third 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.

386.1(.2) The Invention of Australia

The image that Australia presents in its official tourist brochures is of an exotic "outback" populated by peculiar flora

and fauna and the occasional aboriginal, counterbalanced by glimpses of an urban culture symbolized by the Sydney Opera House. How are such national images formed? This course will explore this question by examining the changing perception of Australia from the 18th to 20th century. We shall see how exploration, penal settlement, bush-ranging, gold-seeking, British Imperialism, industrialization, sporting tradition, warfare, and urban architecture have all, in turn, contributed to our contemporary image of the southern continent.

387.1(.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.

388.1(.2) Early Celtic Britain [IRS 388.1(.2)]

Britain's Celtic past is shrouded in myth and legend. This course will provide students with the historian's and archaeologist's understanding of this same period by exploring the origin of the Celtic peoples in the British Isles and examining the impact of the Roman, Anglo-Saxon, Viking and Norman invasions.

389.1(.2) Medieval Celtic Britain [IRS 389.1(.2)]

Ireland, Scotland, and Wales were challenged by the threat of English domination throughout the medieval era. This course will examine the ability of each Celtic kingdom to resist this trend, as well as measure the degree to which Celtic institutions, language, and culture were transformed in the process.

392.1(.2) Survey of Modern Japan

This course focuses on the creation of the modem Japanese state. The class is subdivided into three eras – Tokugawa, Prewar (or Imperial), and Postwar – and will follow a topical approach examining the dynamics of political, economic, and social change so as to provide students with a more analytical understanding of each era.

393.0 History of British North America, 1763-1867

This course will examine the major social, economic, religious, and intellectual trends evident in British North America in the period following the Treaty of Paris of 1763. Special attention will be given to the rise of national consciousness and of civil religion in Canada West, and to the Impact these developments had on French and Maritime Canada.

395.0 Ireland, 1600-1985: From the Plantations to the "Troubles" [IRS 395.0]

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.

396.1(.2) China and Japan in the 20th Century: Ideology, State, and Society

This course compares and contrasts the experiences of China and Japan in the 20th century. The differences in their respective paths towards "modernization" will be examined. The causes and consequences of the rise of such "modern" ideologies as nationalism, fascism, and socialism in those countries will also be analyzed.

397.1(.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 topic 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.

400.0 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.

405.1(.2) Society and Culture in Early Modern Europe
This course investigates the people, culture, and regions of
Europe (England, France, Germany, Italy, Spain, 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.

406.1(.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, Marguente de Navarre, Luther, Calvin or
Montaigne, students will trace the developments of ideas about
human nature and politics.

410.1(.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.

411.1(.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.

415.0 The Western Family: Sex, Marriage and Love, 1400-1800

This course considers the origins of the modem 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.

419.1(.2) Gender and Sexuality in the United States, 1860 to the Present

What kinds of gender relations and sexual roles have emerged in modern American times? Through a study of such diverse topics as courtship practices, marriage and reproduction, politics, labour, and sex panics, this course will explore the historical specificity and mutability of gender and sexual identities from the Civil War through the present day, with attention to differences of race, class, ethnicity and region. Students will examine both ideologies of gender and sexuality, as the lived experience of women, men and children.

- 1(.2) History of Sport and Leisure in the Modern World course looks at the development of sport in the modern world, preasing specialization and bureaucratization, its mercialization, its ritualistic character, and its connection to so of race, gender, ethnicity, and class. Although the focus is mational, the course will draw heavily on Canadian, American, British examples.
- 1(.2) History of Health and Medicine in the Modern World course looks at the concern for healthy bodies and minds in 19th and 20th centuries. It will address a range of issues adding the professionalization of medicine and psychiatry, health and the state, and alternatives to orthodox medicine.

1.1(2) American Childhood and Youth From the Colonial Era to the Present

course will explore the changing nature of childhood from the los to the present day. It will consider both adults' ideas about prescriptions for childhood, and children's own experiences of sing up. Drawing on sources ranging from children's furniture to housic of Elvis Presley, the course will examine how childhood bouth have been historically constituted, and how these agend identities have changed in meaning over time. Because shood and youth have acquired their meanings in the context of scular communities, circumstances, and generations, we will be be the context of the context

5.1(.2) American Recreation and Popular Culture, 1800 to the Present

course traces the rise of commercial culture and the changing of popular amusements in the United States. It will examine having fun" has allowed Americans to better define themselves their status within particular communities, explore recreation as trument of social change; and consider the relation between the between the status within particular communities, explore recreation as trument of social change; and consider the relation between the between the status with pre-industrial and rural leisure, and ending with the sent-day entertainments. Cultural artifacts as varied as trumented of Shakespeare, sporting events, popular music, and the sporting ideas about recreation have reflected larger trends in a prican history, including immigration, organizations, and shifting the process of the status of the sporting ideas about recreation have reflected larger trends in a prican history, including immigration, organizations, and shifting the sporting ideas are relations.

1(.2) Film and History

peasingly, historians are having to make use of moving images pource material for their histories, while much of the public peption of the past is being shaped by documentaries and pure films. The first half of this course will examine the strengths weaknesses of using moving images as historical documents the second-half will examine the role of film in interpreting the true goal of the course is to provide students with the ability to cally "employ" and "read" film for the discipline of History. Films study will be selected by the instructor.

0.0 The Honors Essay

equisite: admission to the final year of the honors program.

ory honors students are required to submit and defend a

stantial essay to be selected and prepared in conjunction with a

ulty advisor.

- 1.1(.2) Seminar in Intellectual and Cultural History
 Interdisciplinary seminar will adopt a thematic approach in
 Inter to explore ideas in history across borders, cultures and
 Interdisciplinary students in their graduating year, topics
 Intended for students in their graduating year, topics
 Interdisciplinary include the media, the law, liberty, the
 Interdisciplinary includes the media, the law, liberty, the
 Interdisciplinary in Interdisci
- 0.0 (610.0) Global History: History and Historians requisite: HIS 385.0 or a history major with senior standing.

seminar in global history will examine selected topics in orld history from 1400 to the present. It is intended for honors of 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.

511.0 (611.0) Modern East Asia: Selected Problems in Modernization

Prerequisite: a course in East Asian history.

The influence of the West on the modernization efforts of China and Japan during the 19th and 20th centuries.

513.0 (613.0) Selected Problems in Post-Confederation Canadian History

The course is designed to introduce the student in a detailed way to some of the major problems of the Canadian national experience. Particular emphasis will be placed on one or more of the following: the political, economic, social intellectual, and/or religious dimensions of this experience. Students will be introduced to some of the primary documents of the period.

515.0 (615.0) 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.

517.0 (617.0) Seminar in Modern British History A seminar on selected topics in the history of modern Britain, 1660-1870, intended for history students in their graduating year. Topics for consideration will be chosen by the instructor and students will be required to present papers to the seminar for discussion, criticism and evaluation.

519.0 (619.0) Seminar in Modern European History
A seminar on selected topics in the history of modern Europe,
1800 to present, intended for history students in their
graduating year, honors, and graduating 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.

520.0 (620.0) 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.

522.0 (622.0) 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.

524.0 (624.0) The U.S.S.R.

Prerequisite: at least 1.0 credit 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.

525.0 (625.0) Seminar in Irish and Scottish Emigration [IRS 525.0]

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.

535.0 (635.0) 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

560.0 (660.0) History and Society: The Atlantic Provinces Seminar

Prerequisite: honors or graduate standing.

This course, intended for master's students in Atlantic Canada Studies and honors 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 HIS 560.0 are not eligible to enrol in ACS 660.0.

589.1(.2) [689.1(.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: Insh political institutions and political culture. Readings, consultations, and final paper.

595.1(.2)-599.1(.2) [695.1(.2)-699.1(.2)] Reading Courses

Prerequisite: permission of instructor.

Each reading course will be organized by the instructor(s) involved. In general, each course will be centred round a specific theme, and the students will be expected, through the reading, to be familiar with all aspects of the chosen area. Examinations and/or papers will be required at the end of ea course.

650.0 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.

690.0 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 m satisfy the supervisor that thesis research and all other methodological and disciplinary preparation for the success handling of the thesis topic have been completed. Supervi may require a demonstration of language competence or e course work as preparation for the treatment of certain thes topics. Students will publicly defend their thesis, following which a final grade will be determined by the thesis commi

Cross-Listed Courses

Certain courses offered by the Departments of Modem Languages and Classics, Anthropology, and Religious Stud may, in special circumstances, be cross-listed and counted a student's History concentration. In such cases, the student must obtain the Department's permission.

Image Studies (IST)

Committee on Image Studies

P. Bowlby, Coordinator

M. Larsen

H. McGee

E. Stiegman, Professor Emeritus

G. Thomas

Religious Studies

English Anthropology

Religious Studies

Classics

The Minor Program

Pictures have always played an important part in interpreting human experience. They take a variety of forms from film to photograph, from woodcut to painting, from sculpture to drawing. This minor offers students the opportunity to examine, from the critical perspective of several disciplines, both the attributes and cultural functions of images.

Students may declare a minor in Image Studies after consultation with the Coordinator.

A minor in Image Studies requires successful completion of four (4.0) credits accredited in the Image Studies curriculum. Courses must be selected from at least three departments involved in the

Image Studies Program. Prerequisites for courses in the Image Studies Program can be waived only with the permission of the course instructor.

Courses in the Image Studies Minor

ANT 327.1(.2) Ethnology: Japan

ANT 365.1(.2) Myth: Anthropological Approaches

ANT 366.1(.2) Worldview: Anthropological Approaches

CLA 201.1(.2) The Mythology of Greece and Rome I

CLA 202.1(.2) The Mythology of Greece and Rome II CLA 301.1(.2) Art in Greece and the Ancient Near East

CLA 302.1(.2) Art in Rome and Christian Europe to the 14th

Century

EGL 313.0 Narrative in Fiction and Film HIS 306.0 Images and European History

PHI 348.1(.2) Aesthetics: The Work of Art, The Artist

Aesthetics: The Aesthetic Experience PHI 349.1(.2)

PHI 407.1(.2) Philosophy of Perception

REL 337.1(.2) Hindu and Buddhist Religious Art

REL 338.1(.2) Religion and Art: The West

International Development Studies (IDS)

mittee on International Development Studies

Dansereau, Coordinator

IDS

Baupré

Modern Languages

Cameron

Chamard Charles

Management

J. Dalton Keeble

Finance and Management Science

Religious Studies Political Science Leclaire International Activities McGee Anthropology

McKinnell IDS Morrison History Sharif **Economics**

Tastsoglou Sociology **Environmental Studies lasseur**

Weltmeyer Sociology Philosophy

nct Professors

K. Ahooja-Patel, C. Amaratunga, G. Cameron, D. Fletcher, J. Kirk, R. McKinnell, A. O'Malley, J. Parpart, S. Patel.

R. J. Sacouman, R. Sargent, P. Scholey, T. Shaw, B. Suso,

J.Tellez

e undergraduate program in International Development Studies Mered collaboratively between Saint Mary's and Dalhousie ersities. "Development" is a broad concept and refers to lems that range from the socio-economic impact of a new roelectric dam to the rapid changes in family structure and der roles that often occur during periods of rapid demographic conomic change. As the list of recommended courses bw demonstrates, "development" has political, social, cultural, nomic and historical dimensions. The International elopment Studies Program combines theoretical insights and ctical skills from both the social sciences and the humanities. e goal is to help students take a multidisciplinary approach to ems of development and the possibilities for change in ntries that loosely comprise what has been termed The Third and in the context of an increasingly global political economy. dents are advised to take a four year (i.e., advanced major) the lor of Arts and/or pursue a double major or honors.

program in International Development Studies can be taken ards a Bachelor of Arts (Honors) degree at either university. A ree in International Development Studies can also be bined with a degree in one of the major disciplines involved in program. Joint major concentrations can be worked out by sultation with the IDS Coordinator and the relevant artment at either university.

addition to the general university requirements for a Bachelor Arts degree, the following requirements will also apply to a gram in International Development Studies:

Major Program

appropriate first year (200 level) courses including, as per bulty of Arts regulation 3d, at least one (1.0) credit from the lowing social science electives: ANT 200.0, ECO 1.1(.2)/202.1(.2), POL 200.0, SOC 210.1(.2), and either SOC 1.1(.2) or 212.1(.2), as appropriate.

the equivalent of six (6.0) credits approved for the program, which:

- (i) two (2.0) must be IDS 301.1(.2), 302.1(.2), 401.1(.2) d 402.1(.2);
- (ii) at least one and one half (1.5) credits, selected from 310.1(.2), and any additional half (0.5) credit in Economics;

POL 314.1(.2), and any other additional half (0.5) credit in Political Science; SOC 385.1(.2), or SOC 386.1(.2). All these courses must be at the 300 level or above and must be from the list of IDS Approved Courses.

- (iii) the remainder two and one half (2.5) credits selected from courses with a clear International Development component and must involve at least two different established disciplines within International Development Studies; and
- (iv) five (5.0) credits selected from the 300 level or above, with at least one (1.0) additional credit at the 400 level exclusive of IDS 401.1(.2) and 402.1(.2).

The Minor Program

The equivalent of four (4.0) credits approved for the program, of which:

- one (1.0) credit selected from IDS 301.1(.2) and 302.1(.2);
- at least one (1.0) credit selected from ECO 310.1(.2), POL 314.1(.2), SOC 385.1(.2), or SOC 386.1(.2);
- the remaining two (2.0) credits must be courses with a clear International Development component and must involve at least two different established disciplines within International Development Studies.

The Honors Program

For the Bachelor of Arts (Honors) degree in International Development Studies, all students must complete no fewer than ten (10.0) credits from the International Development Studies Program, of which:

- three (3.0) credits must be IDS 301.1(.2), 302.1(.2), 401.1(.2), 402.1(.2), and 500.0;
- two and one half (2.5) credits selected from ECO 310.1(.2), and any additional half (0.5) credit in Economics; POL 314.1(.2), and any other additional half (0.5) credit in Political Science; SOC 385.1(.2), or SOC 386.1(.2). All these courses must be at the 300 level or above and must be from the list of IDS Approved Courses.
- the remainder four and one half (4.5) credits selected from courses with a clear International Development component and must involve at least two different established disciplines within International Development Studies and a specialized regional concentration in one of the developing areas of Africa, Asia, or Latin America.
- eight (8.0) credits must be at the 300 level or above, with at least one (1.0) additional credit at the 400 level exclusive of IDS 401.1(.2) and 402.1(.2); and
- courses must be approved by a program advisor or the Coordinator.

Although not officially required, it is strongly recommended that students in IDS gain competency in an appropriate second language.

Listing of Approved Courses (asterisk marks core courses in specific disciplines which should be taken before others in these disciplines)

Note: Many of these courses have prerequisites which students should note very carefully.

200.0

Chinese

Modem Chinese

Anthropolog	ay .	Consist	
301.1(.2)	Nature of Culture	Spanish 202.1(.2)	Spanish: Aspects of Latin American Culture a
302.1(.2)	Social Organization	202.1(.2)	Civilization
303.1(.2)	Women: A Cultural Perspective		Civilization
304.1(.2)	Egalitarian Societies	Marketing	
	Chiefdoms	375.1(.2)	International Marketing
305.1(.2)			
307.1(.2)	Applied Anthropology	Philosophy	
308.1(.2)	Anthropology and Development	325.1(.2)	Ethical Issues in International Development
309.1(.2)	Peasant Society and Culture	323.1(.2)	Luncai issues in international Development
311.1(.2)	Ethnology: Melanesia		.5.7
312.1(.2)	Ethnology: Polynesia and Micronesia	Political Scient	
	Ethnology: East Asia	305.0	International Relations
326.1(.2)	Ethnology. East Asia	321.1(.2)	International Organizations
336.1(.2)	Foundations of Psychological Anthropology	322.1(.2)	Politics of International Trade
		418.0	International Law
Asian Studio	95	553.0	International Studies Seminar
300.1(.2)	Multidisciplinary Study of Asia	333.0	International Studies Seminar
305.1(.2)	Contemporary China: Institution and Culture		
400.1(.2)	Seminar in Asian Studies	Religious St	udies
400.1(.2)	Schillar III Asian Stadies	312.1(.2)	
East with		[412.1(.2)]†	Theologies of Liberation
Economics		341.1(.2)	1/2
307.1(.2)	Money and Banking	[441.1(.2)]†	Violence and Non-Violence: East and West
*310.1(.2)	Development Economics		VIOLOTICO GITO TAOTI- VIOLETICE. Last and West
312.1(.2)	History of Economic Thought	348.1(.2)	Delicies and Festivist Law 1. 11. 2
315.1(.2)	Comparative Economic Systems	[448.1(.2)]†	Religion and Ecological Issues in the Develop
323.1(.2)	Economies in Transition		World
339.1(.2)	Introduction to Labour Economics	†Courses at 1	the 400 level are for majors in Religious Studies
349.1(.2)	Women and the Economy	only.	
363.1(.2)	Environmental Economics	oy.	
364.1(.2)	Cost-Benefit Analysis	0	
413.1(.2)	International Macroeconomics and Finance	Sociology	the state of the s
414.1(.2)	International Trade	319.0	Reform and Revolution in Latin America
414.1(.2)	international trade	331.1(.2)	Modernization and Aging
	In .	333.0	Social Movements
English	A	*385.1(.2)	Problems of Development
460.0	Post Colonial Literature: An Overview		
		*386.1(.2)	Sociology of Developing Societies
Finance and	Management Science	387.1(.2)	Women and Development
476.1(.2)	International Financial Management	391.0	Rural Sociology
4/0.1(.2)	international Financial Management	419.0	Sociology of the Environment
2		420.0	Comparative Regional Development
Geography		422.1(.2)	Gender and Development: Theory and Metho
204.1(.2)	Demographics and Culture		
214.1(.2)	Environment and Livelihood	423.1(.2)	Gender and Development: Policy and Practic
302.0	The Geography of World Affairs	425.0	Corporate Power and the World Economy
31.1.1(.2)	Rural Geography	447.1(.2)	Work and the Empowerment of Women in Ind
		448.1(.2)	Feminist Analysis
339.0	Cultural Geographies	481.1(.2)	Gender, Ethnicity, and Migration
414.1(.2)	Integrated Costal Zone Management	(.=)	
		204 4/ 3\ Day	velopment Theory: Introduction to Developm
History			
208.0	Global History: 1450 to the Present		dies
209.0	East Asia: From Prehistory to Modern Times	Prerequisite:	one of ANT 200.0, ECO 201.1(.2)/202.1(.2), PO
		. 200.0, SOC 2	00.0, or SOC 210.1(.2) and either SOC 211.1(.2)
316.1(.2)	Africa in the 19th Century, Intrusion and Conquest	212.1(.2).	
317.1(.2)	Africa in the 20th Century, Colonialism and		
	Independence	This serves !-	stradupon abudanta to the access and not well
322.0	South Africa		stroduces students to the scope and nature of
323.0	China Before 1800		studies. It emphasizes theoretical and analytical
			the understanding of development, explores the
342.0	Survey of Modern China	history of the	development experience and examines specific
375.0	Modem Latin America		confront the developing world. The course draw
381.1(.2)	East Asia and the West to 1800		om various disciplines to explain changing
382.1(.2)	East Asia and the West Since 1800		d societies in the developing world.
*385.0	Aspects of Global History: One Earth, Many	conditions and	a societies in the developing world.
300.0	Worlds		
204 44 61		302.1(.2) Dev	velopment Practice: Introduction to Develop
394.1(.2)	The Emergence of Modem Korea	Stu	dies
396.1(.2)	China and Japan in the 20th Century	Prerequisite: I	
511.0	Modem East Asia, Selected Problems in	r roroquisite. I	
	Modernization	TL'	release the formulation of the territory
	MODULINGUION		explores the formulation of development policy a
Managara		how it is applied	ed to development problems through public act
Managemen		It examines th	ne role of the state and other actors who contrib
488.1(.2)	International Business Management		naking process and analyzes policy successes
		failures.	and proceed and analyzoo poney educousces
Modern Lan	guages and Classics:	ialiules.	
Arabic		045.0.0	United as ANT MEAN B
	Deading and Matting Appli-		listed as ANT 315.0 Peasant Society and
230.0	Reading and Writing Arabic	Gultur	A

325.1(.2) Cross-listed as PHI 325.1(.2) Ethical Issues in International Development

Culture

- (2) Cross-listed as REL 348.1(.2) Religion and **Ecological Issues in the Developing World**
- (2) Cross-listed as SOC 386.1(.2) Sociology of **Developing Societies**
- 1(.2) Seminar in Development Studies: Conceptual **Foundations**

quisite: IDS 300.0, or IDS 301.1(.2) and 302.1(.2).

course examines key issues in developing countries such as strialization and rural change. It explores theoretical and questions and analyzes various case studies. In ultation with the instructor, students will select topics, plan warch and make presentations related to a research project.

1(.2) Seminar in Development Studies: Contemporary Issues

equisite: IDS 401.1(.2).

course students will research and analyze a selected em of development in Africa, Asia or Latin America and the bean. Students will read and discuss a common body of ings, present their research findings, including theoretical policy implications, and write a major research paper.

1.1(.2) Special Topics In Development Studies equisite: IDS 300.0, or IDS 301.1(.2) and 302.1(.2).

course will investigate in some depth a particular topic or set pics in Development Studies. The specific topic(s) will vary year to year, depending on the availability of visiting dars, invited research fellows, or the research plans of aciated faculty.

1.1(.2) Special Topics In Development Studies equisite: IDS 300.0, or IDS 301.1(.2) and 302.1(.2).

s course will investigate in some depth a particular topic or set poics in Development Studies. The specific topic(s) will vary year to year, depending on the availability of visiting blars, invited research fellows, or the research plans of **Exociated faculty.**

22.1(.2) [622.1(.2)] Cross-listed as SOC 422.1(.2) Gender and Development: Theory and Method

23.1(.2) [623.1(.2)] Cross-listed as SOC 423.1(.2) Gender and Development: Policy and Practice

4.1(.2) Research Methodology

sic techniques of research design and qualitative analysis are niewed and applied to a selected range of development

bte: See IDS 520.1(.2) described below. Students are advised hat they can only obtain a credit for this course at one of the two rels at which it is offered.

0.0; 451.0; 452.1(.2)-455.1(.2) Directed Study requisite: IDS 300.0, or IDS 301.1(.2) and 302.1(.2), or mission of Coordinator.

mese courses provide an opportunity for students to study, in pth, topics not normally covered by regular course offerings. dents are expected to demonstrate some initiative and ependence.

80.1(.2) Field Research in Development Bee IDS 660.1(.2) described below.

\$1.1(.2) South East Asia: Contemporary Development Issues

Perequisite: IDS 301.1(.2)/302.1(.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.)

462.1(.2) Sub-Saharan Africa: Contemporary Development

Prerequisite: IDS 301.1(.2)/302.1(.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.

463.1(.2) Latin American: Contemporary Development Issues Prerequisite: IDS 301.1(.2)/302.1(.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.

464.1(.2) Popular Approaches to Development Prerequisite: IDS 301.1(.2)/302.1(.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, labor groups and others. Issues range from new practices in development based on increased participation by subaltem 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.

470.1(.2) [570.1(.2)] Environment and Development Prerequisite: IDS 300.0, or IDS 301.1(.2) and 302.1(.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 politicaleconomic 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.

481.0 Cross-listed as SOC 481.0 Gender, Ethnicity and Migration

485.1(.2) Cross-listed as SOC 385.1(.2) Problems of **Development**

500.0 Honors Essay in Development Studies Prerequisite: IDS 400.0, or IDS 401.1(.2) and 402.1(.2).

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 Master degree program. Other students must have approval of the IDS Coordinator.

520.1(.2) Research Methodology See IDS 424.1(.2) described above.

525.1(.2) [625.1(.2)] Cross-listed as PHI 525.1(.2) [625.1(.2)] International Justice

530.1(.2) [630.1(.2)] Contemporary Development Planning See IDS 630.1(.2) described below.

540.1(.2)-545.1(.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.

543.1(.2) Conceptual Foundations

See IDS 401.1(.2): Dynamics of Development: Framework of Analysis and Practice, described above.

544.1(.2) Issues of Theory and Practice

See IDS 402.1(.2): Dynamics of Development: Critical Issues, described above.

545.1(.2) The Project Cycle

Description available from the Coordinator of the IDS Program.

550.1(.2)-555.1(.2) Directed Readings

These courses provide an opportunity for students to pursue in depth topics not normally covered by regular course offenngs. Students are expected to demonstrate some initiative and independence.

560.1(.2) [660.1(.2)] Field Research in Development See IDS 660.1(.2) described below.

561.1(.2) South East Asia: Contemporary Development Issues

See IDS 461.1(.2) described above.

562.1(.2) Sub-Saharan Africa: Contemporary Development Issues

See IDS 462.1(.2) described above.

563.1(.2) Latin America: Contemporary Development Issues See IDS 463.1(.2) described above.

564.1(.2) Popular Approaches to Development See IDS 464.1(.2) described above.

570.1(.2) Environment and Development See IDS 470.1(.2) described above.

601.1(.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.

602.1(.2) Dynamics of Development: Critical Issues Prerequisite: IDS 601.1(2).

The major theoretical and policy debates that surround major problems of development will be critically examined. With reference to issues addressed in IDS 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.

620.1(.2) Advanced Reasearch 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.

- 622.1(.2) Cross-listed as SOC 422.1(.2) Gender and Development: Theory and Method
- 623.1(.2) Cross-listed as SOC 423.1(.2) Gender and Development: Policy and Practice
- 630.1(.2) Contemporary Development Planning

640.1(.2)-645.1(.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.

650.1(.2)-655.1(.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.

660.1(.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 IDS Coordinator.

661.1(.2) South East Asia: Contemporary Development Issues

See IDS 461.1(.2) described above.

662.1(.2) Sub-Saharan Africa:Contemporary Development Issues

See IDS 462.1(.2) described above.

663.1(.2) Latin America: Contemporary Development Issues See IDS 463.1(.2) described above.

664.1(.2) Popular Approaches to Development See IDS 464.1(.2) described above.

690.0 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.

692.1(.2) Proposal Design

Students will develop skills in proposal writing, using different models available, ranging from the practical to the applied. Students will prepare a proposal to be used either for their

is, Practicum, or Applied Research Project. The proposal ponsist either of a full research proposal (in the case of the sis Option); or placement proposal including a critical review me literature and a description of the expected learning ctives to be reached with the intended placement (in the case Practicum); or a critical review of the literature and project in the case of the Applied Research Project). The bosal will be defended publicly prior to undertaking either the isis, Practicum, or Applied Research Project.

1(.2) Applied Project

student is required to complete a project, under the prvision of a faculty member, involving real-world application theory and techniques of international development. The ect will be undertaken in conjunction with an agency

(governmental, NGO, or other) working in the field of international development, whether located overseas or in Canada. The project can take one of two forms: (a) applied research, in which the student, in consultation with her/his supervisor and the relevant agency, designs and carries out a suitable research activity, or (b) a practicum, in which the student organizes and enters into a work placement within the agency. In either case, the student prepares a suitable proposal beforehand, including a letter of invitation by the host agency, engages in the research or practicum for a period of at least 3 months, and writes a final report on the research results or the practicum experience. particularly in reference to expectations in the proposal. Evaluation will be based on the final report, and an evaluation by a responsible person in the host agency.

rish Studies (IRS)

yrne, Professor Siadhail, Associate Professor The Thomas D'Arcy McGee

Coordinator Chair

Major Program

btain a major in Irish Studies, seven (7.0) credits are wired, including:

\$201.1(.2) An Introduction to Modern Irish

\$202.1(.2) Modern Irish Language

325.1(.2) Intermediate Irish I

\$326.1(.2) Intermediate Irish II

Irish Studies Seminar

lus four (4.0) credits, two (2.0) of which must be at the 400 level approved by the Coordinator of Irish studies.

Minor Program

be following program constitutes a minor in Irish Studies ording to the "Requirements for the Degree of Bachelor of "s" as stated above in Section 3:

S 201.1(.2) An Introduction to Modem Irish

\$202.1(.2) Modem Irish Language

lus three (3.0) credits approved by the Coordinator of Irish

101.1(.2) An Introduction to Modern Irlsh

his course will introduce students to Modern Irish, with phasis on the spoken and written forms.

2.1(.2) Modern Irish Language

Perequisite: IRS 201.1(.2) or permission of instructor.

is course will develop the student's ability to speak, write and ad Modern Irish.

3.1(.2) Scottish Gaelic - Introductory I

his course gives the student an introduction to the structure and se of Scottish Gaelic in a Nova Scotia context. Topics covered Idude grammar and conversation basics, traditional and new elic songs, and conversation aimed at specific social casions and locations.

104.1(.2) Scottish Gaelic - Introductory II erequisite: IRS 203.1(.2)

his course gives the student a continuation of the introduction to structure and use of Scottish Gaelic in a Nova Scotia context. pics covered include grammar and conversation basics, aditional and new Gaelic songs, and conversation aimed at becific occasions and locations.

05.1(.2) An Introduction to Mediaeval Welsh Language bediaeval Welsh, a P-Celt language, is a valuable tool in the andy of the Celtic tradition, giving the student an insight into the n-Gaelic mediaeval cultures of Wales and southern Scotland, and the related culture of Brittany.

306.1(.2) An Introduction to Mediaeval Welsh Literature Prerequisite: IRS 305.1(.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 (Insh 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.

307.0 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.

308.0 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.

310.0 Introduction to Old Irish Prerequisite: one Celtic language.

An introduction to Classical Old Irish with grammar and readings.

325.1(.2) Intermediate Irish I

Prerequisite: IRS 201.1(.2) and 202.1(.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.

326.1(.2) Intermediate Irish II

Prerequisite: IRS 325.1(.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.

327.1(.2) Scottish Gaelic – Intermediate I Prerequisite: IRS 203.1(.2) and 204.1(.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.

328.1(.2) Scottish Gaelic – Intermediate II Prerequisite: IRS 327.1(.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.

334.0 Cross-listed as EGL 334.0 The Literature of Modern Ireland

340.1(.2) The Early Christian Church in Britain and Ireland [ANT 341.1(.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.

350.1(.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 omamentation 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.

379.1(.2) Irish Material Culture [ANT 379.1(.2); GPY 379.1(.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.

388.1(.2) Cross-listed as HIS 388.1(.2) Early Celtic Britain

389.1(.2) Cross-listed as HIS 389.1(.2) Medieval Celtic Britain

390.1(.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.

391.1(.2) Cross-listed as GPY 390.1(.2) Geography of Ireland

395.0 Cross-listed as HIS 395.0 Ireland, 1600-1985: From the Plantations to the "Troubles"

400.0 Irish Studies Seminar
This interdisciplinary course will allow students to consider a

selection of topics relating to the Insh experience at home and abroad. Availing of the expertise of internal and external guest speakers, areas of study will include post-colonial Ireland; Ireland; a contemporary European context; language and culture; Northern Ireland; contemporary literature in Irish and English; Insh 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.

401.1(.2) Advanced Modern Irish I

Prerequisite: IRS 326.1(.2) or permission of instructor.

This course will deal with modern spoken and written Irish, will emphasis on acquiring a facility in spoken Irish.

402.1(.2) Advanced Modern Irish II

Prerequisite: IRS 401.1(.2).

This is an intensive course designed to develop further the student's ability to speak and write modem Irish.

407.1(.2) The Recovery of the Gaelic Past Prerequisite: IRS 202.1(.2) and a minimum grade of C in EGL₄ 202.1(.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 scholard translators such as Charles O'Connor, Charlotte Brooker John O'Donovan and Eugene Curry. The course will also look English reaction to these developments as reflected in Matthe Amold's "On the Study of Celtic Literature".

408.1(.2) The Romantic Popularization of the Gaelic Past Prerequisite: IRS 202.1(.2) and a minimum grade of C in EGL 202.1(.2).

This course will look at the process by which the new awarened 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 careed of writers such as James Hardiman, James Clarence Mangagand Samuel Ferguson, as well as on Charlotte Brooke, who begins the process, and Standish James O'Grady, whose work marks its end.

430.1(.2) Irish Folklore

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.

441.1(.2) Cross-listed as EGL 441.1(.2) The Irish Short State

442.1(.2) Cross-listed as EGL 442.1(.2) Irish Drama 443.1(.2) Cross-listed as EGL 443.1(.2) Irish Poetry

450.1(.2) Modern Gaelic Literature in Translation Prerequisite: permission of instructor.

This course will cover works in translation by prominent 20th century writers in Irish. Emphasis will be placed on the plays Douglas Hyde, the prose writings of Pádraic Ó Conaire, Máirtí Cadhain, the Blasket Island writers and modem Gaelic poetral.

451.1(,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.

452.1(.2) Cross-listed as EGL 452.1(.2) Irish Drama to the End of the 19th Century

(.1) Cross-listed as EGL 453.1(.2) Irish Drama in the Century

mining with an overview of the state of and tensions within

and, this course will examine the range and preoccupations of the 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 Cuirt an Mheon-Oiche (The Midnight Court) and the anonymous Pairtement Chloinne Tomáis.

457.0 Cross-listed as POL 457.0 Politics and Government in Ireland

525.0 Cross-listed as HIS 525.0 Seminar in Irish and Scottish Immigration

Linguistics (LIN)

parms and courses in Linguistics are administered by the partment of Modern Languages and Classics.

ardinators

Mary's University:

Nousie University:

M. Furrow
English
Modem
Languages

mmittee on Linguistics

int Mary's University

Asp English
Philosophy
Sosper Sociology
Anthropology

Modern Languages and Classics

Brennan Philosophy
Rarry English

Tobin Modern Languages and Classics

housie University

Purrow English
Bordon French
Pymers Philosophy
Bopoho French
Yoon Psychology

bunt Saint Vincent University

Davis Sociology/Anthropology
MacMillan Political Science
Psychology
Laren Psychology
Modem Languages

fax Interuniversity Program in Linguistics

Lifax area universities offer honors, majors and minors in Juistics in undergraduate degree programs. Students enrolled Inquistics program can take classes from Saint Mary's, Jousie, and Mount Saint Vincent Universities to fulfil degree hirements.

undergraduate degree in linguistics provides opportunities to by the formal, functional and systemic nature of language and guages as both social and cognitive phenomena. Although a berent discipline in its own right, Linguistics has cognate stonships with a wide array of disciplines, suggested by the addisciplinary nature of many of the courses in the program. Fully members from Anthropology, English, French, Russian, thical Science, Philosophy, Psychology, Sociology, and other hiplines participate.

mors in Linguistics

honors degree requires a minimum of ten (10.0) credits

The following three (3.0) credits:

1300.0 Introduction to Linguistics

310.1(.2) Phonology 320.1(.2) Morphology 330.1(.2) Syntax 340.1(.2) Semantics

- One (1.0) credit selected with the advice of the program coordinator
- One (1.0) credit at or above the 300 level in a language other than English
- d. five (5.0) credits selected from those specified in subsection (d) below for the major

Major In Linguistics

A major in linguistics requires a minimum of six (6.0) credits, including:

a. One (1.0) credit: Introduction to Linguistics. [either LIN 300.0 at Saint Mary's University or FREN 3020R at Dalhousie University or LING 2251.1(.2)/2252.1(.2) at Mount Saint Vincent University]

 One (1.0) credit from the following Saint Mary's University half credit courses:

LIN 310.1(.2) Phonology
LIN 320.1(.2) Morphology
LIN 330.1(.2) Syntax
LIN 340.1(.2) Semantics

c. One (1.0) credit selected with the advice of the program coordinator

d. Three (3.0) credits 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:

ANT 290.1(.2)	Introduction to Human Communication
ANT 395.1(.2)	Language Use and Issues in Northern Canada
ANT 391.1(.2)	Linguistic Anthropology
ANT 392.1(.2)	Language, Culture and Society
ANT 491.1(.2)	Ethnography of Communication
ANT 492.1(.2)	Anthropological Analysis of Linguistic
	Communities
EGL 311.1(.2)	Modern English Language
EGL 402.0	History of the English Language
EGL 308.1(.2)	Development of English Prose Style from 1500
EGL 326.1(.2)	Language and Gender
EGL 427.1(.2)	Language, Gender, and Power
EGL 490.0	Discourse Analysis
FRE 305.1(.2)	Acadian Language and Culture
FRE 320.1(.2)	French Phonetics
FRE 340.1(.2)	Linguistic Study of French
FRE 440.1(.2)	Canadian French: Sociolinguistic Perspectives
LIN 410.1(.2)	Directed Reading in Linguistics I
LIN 411.1(.2)	Directed Reading in Linguistics II
LIN 421.1(.2)	Special Topics in Linguistics I
LIN 431.1(.2)	Special Topics in Linguistics II
PHI 402.1(.2)	Philosophy of Language: Meaning
PHI 403.1(.2)	Philosophy of Language: Speech Acts
SOC 339.1(.2)	The Sociology of Language
SOC 366.1(.2)	Field Methods in Sociolinguistics I
SOC 367.1(.2)	Field Methods in Sociolinguistics II
SOC 417.0	Seminar on Endangered Languages

Minor in Linguistics

A minor in linguistics requires a minimum of four (4.0) credits in linguistics including:

a. LIN 300.0, Introduction to Linguistics

b. three (3.0) credits at the 300 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.

300.0 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.

305.1(.2) Cross-listed as FRE 305.1(.2) Acadian Language and Culture

308.1(.2) Cross-listed as EGL 308.1(.2) Development of English Prose Style

310.1(.2) Phonology

Prerequisite: LIN 300.0 or another 1.0 credit 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.

311.1(.2) Cross-listed as EGL 311.1(.2) Modern English Language

312.1(.2) Cross-listed as EGL 312.1(.2) Modern English Language in Canada

320.1(.2) Morphology

Prerequisite: LIN 300.0 or another 1.0 credit from the listed equrses 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.

321.1(.2) Cross-listed as FRE 320.1(.2) French Phonetics

330.1(.2) Syntax

Prerequisite: LIN 300.0 or another 1.0 credit 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.

338.1(.2) Cross-listed as SOC 338.1(.2) Language Change and Social Change

339.1(.2) Cross-listed as SOC 339.1(.2) The Sociology of Language

340.1(.2) Semantics

Prerequisite: LIN 300.0 or another 1.0 credit from the listed courses in Linguistics.

This course analyzes how words and sentences convey meanin 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, grammatical, pragmatic and logical aspects of meaning introduced. The course also explores idiomatic expressions and the ubiquity of metaphor.

- 341.1(.2) Cross-listed as FRE 341.1(.2) Linguistic Study of French
- 366.1(.2) Cross-listed as SOC 366.1(.2) Field Methods in Sociolinguistics I
- 367.1(.2) Cross-listed as SOC 367.1(.2) Field Methods in Sociolinguistics II
- 391.1(.2) Cross-listed as ANT 391.1(.2) Introduction to Linguistics Anthropology
- 392.1(.2) Cross-listed as ANT 392.1(.2) Language, Cultural and Society
- 395.1(.2) Cross-listed as ANT 395.1(.2) Language Use and Issues in Northern Canada
- 491.1(.2) Cross-listed as ANT 491.1(.2) Ethnography of Communication
- 492.1(.2) Cross-listed as ANT 492.1(.2) Anthropological Analysis of Linguistic Communities
- 402.0 Cross-listed as EGL 402.0 History of the English
- 410.1(.2) Directed Readings in Linguistics I

411.1(.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 advantage level topics not covered in other linguistics courses or in course cross-listed as linguistics courses, or to allow for a different approach to the study of topics already covered in other course.

417.0 Cross-listed as SOC 417.0 Seminar in Endangered Languages

431.1(.2) - 432.1(.2) Special Topics in Linguistics Prerequisite: at least 3.0 credits in Linguistics

This course allows students to study a special topic at an advanced level. Such topics will either (a) not be covered by other LIN courses or (b) handle the subject matter in alternative models.

Seminar: 3 hrs. a week. 1 semester.

440.1(.2) Cross-listed as FRE 440.1(.2) Canadian French: Sociolinguistic Perspective

500.0 Honors Thesis

Prerequisite: honors standing in Linguistics.

Supervised preparation of a significant research paper for honod students in linguistics.

Management (MGT)

person,

ciate Professor

ciate Professors

istant Professors

nct Professors

essors

D. Wicks

J. Chamard, H. Das, P. Fitzgerald.

K. Kelloway, A. Mills

S. Pendse, T. Wagar J. Badawi, C. Driscoll,

R. Summers

E. Farrell, J. Haiven G. Boyd, B. Miller,

A.Obuekwe

Department of Management offers four programs for majors:

Global Business Management

Human Resource Management and Industrial Relations

Management

Small Business and Entrepreneurship

bails on the requirements for each of these majors are delineated following paragraphs.

September 1998 a Certificate in Human Resource Management a Management option (HRM) or a Psychology/Management on (HRP) was introduced. Details for those two programs are and in Section 4: Continuing Education of this Academic hndar.

indition to meeting the general requirements for the Bachelor of nmerce degree, the following courses are required for each of se programs.

man Resource Management and industrial Relations Major

r 3

C 332.1(.2) Planning and Control

340.1(.2) Human Resource Economics

360.1(.2) Business Finance I

N361.1(.2) Business Finance II

6T 385.1(.2) Human Resource Management

\$1 386.1(.2) Industrial Relations

e (1.0) free elective credit

e (1.0) free elective credit - see note below

ST 483.1(.2) Interpersonal Behavior I

6T 485.1(.2) Wage and Salary Administration

ST 486.1(.2) Personnel Staffing, Training and Development

6T 489.1(.2) Strategic Management

(2.0) non-Commerce elective credits

e (1.0) free elective credit

te: If ECO 340.1(.2) was used to satisfy the required Economics ctives in Year 2, the number of free electives is increased to one nd one-half (1.5).

Inagement Major

C 332.1(.2) Planning and Control

N 360.1(.2) Business Finance I

N 361.1(.2) **Business Finance II**

SC 317.1(.2) Operations Management

he half (0.5) Accounting elective credit

e (1.0) Marketing elective credit

ne half (0.5) Commerce elective credit

me (1.0) free elective credit

GT 385.1(.2) Human Resource Management

GT 386.1(.2) Industrial Relations

GT 481.1(.2) Oppanization Theory: Structure, Process, Analysis

and Design

MGT 489.1(.2) Strategic Management

one half (0.5) finance elective

two (2.0) non-Commerce elective credits one half (0.5) free elective credit

Small Business and Entrepreneurship

Major

Year 3

ACC 332.1(.2) Planning and Control

FIN 360.1(.2) Business Finance I

MGT 389.1(.2) Structuring the Start-Up

MGT 494.1(.2) Entrepreneurship: Theories and Concepts

One (1.0) non-Commerce elective

One and one-half (1.5) free electives

Year 4

MGT 380.1(.2) Family Business

MGT 487.1(.2) Small Business Opportunities

MGT 489.1(.2) Strategic Management

MGT 495.1(.2) Small Business Performance Improvement

One (1.0) credit non-Commerce elective

Two (2.0) credits 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

ACC 332.1(.2) Planning and Control

ACC 357.1(.2) International Accounting

FIN 360.1(.2) Business Finance I

FIN 361.1(.2) Business Finance II

MKT 375.1(.2) International Marketing One (1.0) credit Modem Language (except English) elective

[Chinese, French, German, Italian, Japanese, or Spanish] - see note (i) below

One (1.0) credit Geographic elective - see note (ii) below

One-half (0.5) credit free elective

Year 4

FIN 476.1(.2) International Finance

MGT 488.1(.2) International Business

MGT 489.1(.2) Strategic Management

One (1.0) credit Modem Language (except English) elective [Chinese, French, German, Italian, Japanese, or Spanish] - see note (iii) below

One (1.0) credit Geographic elective - see note (iv) below

One (1.0) credit International elective - see note (v) below

One-half (0.5) credit free elective

Notes:

- (i) If the non-Commerce elective in Year 1 was a Modem Language, then this requirement can be replaced with one (1.0) free elective.
- (ii) One (1.0) elective 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) One (1.0) credit elective must be selected from one, and only one, of the areas (Africa, Americas, Asia, or Europe) different from the area of Year 3 Geographic credit.
- (v) One (1.0) credit elective must be selected from the approved list of Geographic credits or general International credits found in the "Global Business Management" entry in Section 5 of this Calendar. If ECO 310.1(.2), ECO 312.1(.2), ECO 315.1(.2), ECO 413.1(.2), or ECO 414.1(.2) were used to satisfy the Economics elective(s) in Year 2, the number of free electives at the 200 level or

above is increased by one-half (0.5) or one (1.0) as appropriate. (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 three (3.0) non-Commerce electives.

281.1(.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.

301.1(.2) Work and Alienation

380.1(.2) Family Business

Prerequisite: at least ten (10.0) university credits.

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.

383.1(.2) Organizational Behavior I

Prerequisite: MGT 281.1(.2).

This part 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.

384.1(.2) Organizational Behavior II

Prerequisite: MGT 281.1(.2). Recommended MGT 383.1(.2).

This course is a continuation of MGT 383.1(.2). It focuses on macro aspects of organizational behavior. Topics covered include group processes and their relationship to effectiveness, intergroup cooperation and conflict, organizational character, structure, environment and culture, leadership, communication, decision making and organizational change and development.

385.1(.2) Human Resource Management Prerequisite: MGT 383.1(.2) and 384.1(.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.

386.1(.2) Industrial Relations

Prerequisite: MGT 383.1(.2) and 384.1(.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.

388.1(.2) Business and Society

Prerequisite: ECO 201.1(.2) and 202.1(.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 issue into strategic management.

389.1(.2) Structuring the Start-Up Prerequisite: ACC 242.1(.2) and MKT 270.1(.2),

This course uses lectures, problems and cases to develop the students' ability to plan the human, material and economic aspect of the business start-up, whether it is de novo, a franchise, or a out.

Classes and case study 3 hrs. a week. 1 semester.

391.1(.2) Women in Management [WMS 391.1(.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 political and career planning.

392.1(.2) Occupational Health and Safety Prerequisite: at least 10.0 university credits.

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.

481.1(.2) Organization Theory: Structure, Process, Analysis and Design

Prerequisite: MGT 383.1(.2) and 384.1(.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.

483.1(.2) Interpersonal Behavior Prerequisite: MGT 383.1(.2) and 384.1(.2).

This course studies and attempts to improve the kinds of interpersonal competence that can contribute to the effectiveness an administrator. By focusing on the causes of misunderstanding between persons and reducing the causes of such misunderstandings, the course attempts to improve an individual interpersonal skills as a member of an organization.

484.1(.2) Interpersonal Behavior II

485.1(.2) Wage and Salary Administration Prerequisite: MGT 385.1(.2).

This course is designed to integrate compensation systems with employment planning, career development, and organizational planning concepts.

486.1(.2) Personnel Staffing, Training and Development Prerequisite: MGT 385.1(.2).

This course deals with the issue of matching job requirements will personal characteristics. This will be considered from scientific an statistical perspectives and their implication for practical applications. These principles are also considered as they apply training and developing human resources.

487.1(.2) New Venture Opportunities Prerequisite: MGT 389.1(.2).

ents are led through the development of the major elements of siness plan for a new venture. As a planning and financing the business plan outlines in detail and specifically quantifies met potential, competition, production and operational rements, finance, management and the overall feasibility of a bible new venture.

1(.2) International Business Management requisite: completion of at least ten (10.0) credits.

introduction to the nature of environment of international mess management including the study of multinational morations, intercultural differences and their effects on sigement style and policy and execution. The focus of ssion and presentation will be on management systems in and South America, Europe, the Communist Bloc, Middle st, South-East Asia, China, and Japan.

1.1(.2) Strategic Management

requisite: FIN 361.1(.2), MKT 270.1(.2), MGT 384.1(.2), and one additional credit at the 300 level from ACC, ECO, MGT, FIN,

is a "capstone" course that attempts to utilize all the business plines (management, marketing, finance, accounting, etc.) in an but to identify, diagnose, and recommend appropriate action for managerial problems. It is hoped that through this course, ments will gain a better understanding of the complexity and relationship of modern managerial decision making. It is also ped that this exposure will facilitate the students' ability to analyze polex problem situations.

10.1(.2) Seminar in Management

requisite: completion of at least ten (10.0) credits and mission of instructor.

be course deals with selected topics in the management area. The bics to be covered will vary depending on the interests of the dents and instructors.

Iminar 3 hrs. a week. 1 semester.

2.1(.2) Directed Study

requisite: permission of Chairperson and instructor.

lended to supplement or provide an alternative to the regular anagement courses in order to meet the special needs and erests of students, the course provides an opportunity to study a iticular subject in detail and requires from the student some easure of independence and initiative.

torial and independent study. 1 semester.

93.1(.2) Business-Government Relations in Canada

84.1(.2) Entrepreneurship: Theories and Concepts perequisite: completion of at least ten (10.0) credits.

grough lectures and seminars, this course covers the nature of trepreneurship, theories of entrepreneurship, characteristics and haviors of entrepreneurs, the entrepreneur as catalyst for conomic activity, application of the concepts of entrepreneurship to ublic and non-profit enterprises both large and small, trepreneurship in developing and developed economies.

lasses and seminar 3 hrs. a week. 1 semester.

95.1(.2) Small Business Performance Improvement rerequisite: completion of at least ten (10.0) credits.

This course requires students to work with a small business wner/manager to identify a small business problem, to develop a orkable solution to the problem, and to implement that solution.

96.1(.2) Collective Bargaining rerequisite: MGT 386.1(.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.

497.1(.2) Issues in Industrial Relations Prerequisite: MGT 386.1(.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.

498.1(.2) Small Business Consultancy Prerequisite: 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

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.

Intemship. 1 semester.

499.1(.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.

585.1(.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.

586.1(.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 incude 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.

600.1(.2) Entrepreneurship: Theory and Concepts Prerequisite: completion of all required 500-level MBA 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.

681.1(.2) International Business Management

Prerequisite: completion of all required 500-level MBA 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.

682.1(.2) Performance Management

Prerequisite: completion of all required 500-level MBA 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.

683.1(.2) Management of Interpersonal Relations

Prerequisite: completion of all required 500-level MBA 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.

684.1(.2) Management of Organizational Design and Development

Prerequisite: completion of all required 500-level MBA 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.

685.1(.2) Strategic Human Resource Management Prerequisite: completion of all required 500-level MBA 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.

686.1(.2) Industrial Relations

Prerequisite: completion of all required 500-level MBA 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.

687.1(.2) New Venture Opportunities

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

Students are led through the development of the major elemental required for a business plan for a new venture, as well as developing an appreciation for new venture growth in the economic As a planning and financing tool, the business plan outlines in deal and specifically finance, management and the overall feasibility of possible new venture. Attention is given to customizing the plan specific requirements of different financing (e.g., venture capitally bank finance, angel investors).

688.1(.2) Social Issues in Business

Prerequisite: completion of all required 500-level MBA 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, multinatic corporate power, and distributive justice. This course will help students to better understand the relevant issues as well as to lea frameworks and tools that can assist them in integrating social, ethical, and ecological issues into strategic management.

689.1(.2) Strategic Management

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

This course focuses attention on the role of the senior managems 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.

690.1(.2) Seminar in Management

Prerequisite: completion of all required 500-level MBA 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.

691.1(.2) Staffing, Training and Development

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

This course deals with two important human resource activities: staffing and organization with the right individuals and training that to perform their current and future responsibilities competently. The course would cover topics such as recruitment techniques, selections (e.g., tests, interviewing), orientation and training, and management techniques using various learning principles.

692.1(.2) Directed Study

Prerequisite: completion of all required 500-level MBA 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 particular subject in detail and requires from the student some measure of independence and initiative.

693.1(,2) Management in Developing Economies

694.1(.2) Ethical Issues in the World of Business Prerequisite: completion of all required 500-level MBA courses an permission of MBA Director, Departmental Chairperson, and instructor.

The purpose of the course is to examine some of the problems the arise in business from an ethical point of view. The course

ctives will be to develop an understanding of what moral/ethical es are, as distinct from practical, legal, or religious matters. dents will acquire a framework for analyzing ethical problems then consider a number of difficult matters that business people at deal with in their careers. As the topics are introduced, dents will see how they stem from issues in accounting, finance, man resources, marketing, and strategic management.

1(.2) Small Business Performance Improvement requisite: completion of all required 500-level MBA courses and mission of MBA Director.

course requires students to work with a small business er/manager to identify a small business problem, to develop a bakable solution to the problem, and to implement that solution.

5.1(.2) The Negotiating Process requisite: MGT 686.1(.2) or permission of instructor.

focus of this course is on the negotiating process with special phasis on contract negotiation between management and union. beamines the nature of negotiation, planning and preparation for notiation, negotiating theories, strategies and tactics. It also

examines the roles of such key elements in negotiation as communication, persuasion, power and ethics.

697.1(.2) Family Business

Prerequisite: completion of all required 500-level MBA 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.

699.0 Research Project in Management

Corequisite: MBA 697.1(.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.

Marketing (MKT)

Mairperson, Associate Professor fessor

sociate Professors

H. Ogden

C. Kim

T. Musial, L. Rieber,

S. Sharma,

L. Van Esch.

R. Venkat

G. Fullerton

Issistant Professor

he Department of Marketing offers a program for marketing biors which, in addition to the general requirements for a chelor of Commerce degree as outlined in Section 3 of this lendar, requires students to take MKT 376.1(.2) (Consumer havior), MKT 378.1(.2) (Marketing Research), MKT 379.1(.2) Marketing Management), MKT 479.1(.2) (Marketing Policy) and me (1.0) additional elective credit. For additional information, budents should consult the Chairperson and/or faculty advisors. The Department administers the managerial communications purses [COM 293.1(.2), COM 394.1(.2), COM 475.1(.2), and DOM 675.1(.2)] described earlier in this Calendar.

70.1(.2) Introduction to Marketing requisite: MGT 281.1(.2), and ECO 201.1(.2) and 202.1(.2).

budents are introduced to the basic marketing tools mentation, positioning, product, price, distribution, and montion. Marketing research, buyer behavior, planning, arketing in a global setting, and the relationship between arketing and society are also introduced. Teaching methods clude lecture, current readings, videos, class exercises and ase analysis.

75.1(.2) International Marketing rerequisite: MKT 270.1(.2).

tudents explore the economic, cultural, political, and legal pects of international marketing, together with international roduct policy, distribution, pricing, and promotion. International ansumerism, research, and management issues are also addressed.

376.1(.2) Consumer Behavior Prerequisite: MKT 270.1(.2).

mudents gain an understanding of the social, cultural, and sychological factors influencing consumer behavior and of the implications of consumer behavior to marketing strategies. Topics include consumers' needs, attitudes, learning, decision making, ensumption patterns, cultures, and life styles.

378.1(.2) Marketing Research

Prerequisite: MSC 207.1(.2) and MKT 270.1(.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.

379.1(.2) Marketing Management

Prerequisite: MKT 376.1(.2) and 378.1(.2). [MKT 378.1(.2) may be taken concurrently.] COM 293.1(.2) is strongly recommended.

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.

380.1(.2) Marketing and the Organization Prerequisite: MKT 270.1(.2). COM 293.1(.2) is strongly recommended.

Note: This course is designed specifically for non-marketing majors. Marketing majors will not receive credit for this course as one of their required marketing electives. (To accommodate those who subsequently declare a major in marketing, this course can be credited as a free elective.)

This course is designed specifically for students who are not marketing majors but who want a more in-depth understanding of the role of marketing in the firm. In addition to providing a broad view of the marketing function, the course highlights the relationship between marketing and other functional areas. The course provides hands-on experience of marketing decisions and marketing plans, with a focus on practical applications. Course activities may include discussions, case analyses, and research projects.

462.1(.2) Services Marketing Prerequisite: MKT 379.1(.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.

470.1(.2) Ethical Issues in Marketing Management Prerequisite: MKT 270.1(.2) and 4th year standing.

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.

471.1(.2) Integrated Marketing Communications Prerequisite: MKT 379.1(.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.

473.1(.2) Management of Marketing Channels Prerequisite: MKT 379.1(.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.

474.1(.2) Personal Selling and Sales Management Prerequisite: MKT 379.1(.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

475.1(.2) Export Management Peerequisite: MKT 375.1(.2) and 379.1(.2).

Students undertake detailed study of the strategic decisions and research problems concerning export/import management: international marketing strategies, export strategies, the export process, preparation for exporting, distribution strategies, terms of trade, developing export quotes, and methods of evaluation of company readiness to export. Selective secondary data bases may be used.

476.1(.2) Current Topics in Marketing Prerequisite: MKT 379.1(.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.

477.1(.2) Marketing to Organizations Prerequisite: MKT 379.1(.2).

Students develop an understanding of the industrial/organizational marketplace. The differences between marketing to consumers and marketing to organizations, the buying behavior of organizations, and the related marketing functions and strategies are discussed.

478.1(.2) Retail Management Prerequisite: MKT 379.1(.2).

Students undertake a comprehensive study of the activities involved in retailing goods and services to consumers. Topics include the evolution of retailing, shopping behavior, retail marketing strategies, and emerging trends.

479.1(.2) Marketing Policy Prerequisite: MKT 379.1(.2).

Students integrate the material learned in the prerequisite, upp 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.

490.1(.2) Special Topics in Marketing Prerequisite: MKT 379.1(.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 issue in marketing. Topics will vary from year to year. The course make repeated for credit when topics vary.

Tutorial and independent study. 1 semester.

492.1(.2) Directed Study

Prerequisite: 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 student particular subject in detail and requires from the students some measure of independence and initiative.

Tutorial and independent study. 1 semester.

495.1(.2) Business Consultancy

Prerequisite: MKT 379.1(.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 busined 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.

Intemship. 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.

571.1(.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.

610.1(.2) Competitive Strategy and Sustainable Development Prerequisite: completion of all required 500-level MBA courses of permission of MBA Director. his course, students will examine the complexities involved in ancing corporate environmental responsibility with petitiveness in the marketplace. Students will learn about environmental strategies can contribute to cost reduction, cess and product innovations, organizational learning, proved relationships with customers and channels of pution, improved corporate reputation, and higher brand ty. Method of instruction may include seminar discussion, se analysis, simulations, secondary research, and field parch projects.

minar and Projects 3 hrs. a week. 1 semester.

1.1(.2) Ethical and Social Analysis in Marketing Decisions equisite: completion of all required 500-level MBA courses or mission of MBA Director.

course studies the application and integration of ethical and the analysis in marketing decisions. It also considers whether, and how to recognize and reconcile the interests of diverse the public of marketing stakeholders when making marketing the analysis one. The groups include customers and clients, channel of the public of the publ

1.1(.2) Services Marketing

requisite: completion of all required 500-level MBA courses or mission of MBA Director.

examination of the marketing management process as scale to service organizations. Students will develop a steting framework relevant to services marketing. With phasis on current literature, service-quality management, naging the customer and marketing mix, designing and naging a marketing-oriented service organization, globalization be addressed.

72.1(.2) Marketing Communications: Planning and Strategy requisite: completion of all required 500-level MBA courses or mission of MBA Director.

tudy of communications theory as it applies to the role of impersonal and mass communication media in marketing. The phasis is placed on the formulation, coordination and intuition of the effectiveness of advertising, personal selling, personal selling, personal, and public relations strategies.

73.1(.2) Marketing Distribution: Planning and Strategy requisite: completion of all required 500-level MBA courses or mission of MBA Director.

systematic analysis of the decision-making factors underlying a development of effective distribution policies and strategies. The course focuses on the institutions and functions of the linketing channel with emphasis placed on distribution functions, direct selling, retail, wholesale and physical limitation functions.

74.1(.2) Marketing on the Internet requisite: MKT 571.1(.2) and MSC 521.1(.2).

his course will provide students with an understanding of the litemet as a marketplace. Technical as well as managerial sues involved in electronic commerce will be addressed. Using thine readings, cases, and assignments, students will develop understanding of the rapidly developing and changing Websed market, and the associated consumer behavior and arketing strategy issues.

75.1(.2) Multinational Marketing

rerequisite: completion of all required 500-level MBA courses or mission of MBA Director.

comprehensive survey of the nature and environment of ultinational magketing. 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.

676.1(.2) Consumer Behavior: Decision-Making Applications
Prerequisite: completion of all required 500-level MBA courses or
permission of MBA Director.

An examination of the buying behavior 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.

677.1(.2) Industrial Marketing Management

Prerequisite: completion of all required 500-level MBA courses or permission of MBA Director.

This course studies the management of the marketing processes among industrial product producers, institutional, industrial and government consumers. Methods of procurement, such as buying centres and various buyer/seller relationships, are examined.

678.1(.2) Marketing Research

Prerequisite: completion of all required 500-level MBA 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.

679.1(.2) Strategic Marketing

Prerequisite: completion of all required 500-level MBA 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.

680.1(.2) Marketing Research Applications
Prerequisite: completion of all 500-level courses and MBA 697.1(.2) or permission of MBA Director.

This course focuses on the application of marketing research in key areas of marketing decision making. The decision areas to be covered may include market segmentation and targeting, new product introduction, promotion, and pricing. As part of the course requirements, students will design and execute a marketing research project that demonstrates the value of marketing research in managenal decision making.

690.1(.2) Seminar in Marketing

Prequisites: completion of all required 500-level MBA 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 when topics vary.

692.1(.2) Directed Study

Prerequisite: completion of all required 500-level MBA 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.

699.0 Research Project in Marketing Corequisites: MBA 697.1(.2), MKT 678.1(.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.

Master of Business Administration (MBA)

Director

Ramesh Venkat

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.

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.

502.1(.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; optimization using incremental and marginal analysis; decision-making under risk and uncertainty; analysis of supply and demand; optimization of production, cost and market/distribution decisions; and market structures and the role of government. Half of the content will consist of decisionmaking under uncertainty (2 to 2.5 weeks) and programing models of decision making (3.5 to 4 weeks).

597.1(.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.

601.1(.2) Integrative Management Exercise Prerequisite: completion of all 500 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.

696.0 Small Business Accounting and Finance Prerequisite: completion of all required 500-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

698.1(.2) MBA Consulting Project (MCP)

Prerequisite: completion of all required 500 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.

Mathematics and Computing Science (MAT, CPS, and CSC)

Chairperson, Professor **Professors**

Associate Professors

Adjunct Professor

P. Muir B. Hartnell, M.T. Kiang

R. Dawson, A. Finbow, W. Finden, P. Lingras,

K. MacLeod, P. Scobey,

Y.P. Singh

Assistant Professors

A. Almudevar.

S. Konstantinidis, N. Linney

G. Jaw, T. Redd

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. major, or honors. This option has the designation CPS. 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 CSC and is available as a major only. Note too that all computing science courses offered by this Department have a CSC designation, whether applied to a CPS or CSC 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 honors or major

rams who wish to gain relevant work experience while iding university. The general requirements for the Coative Education program can be found in the Faculty of ince regulations, Co-operative Education Section, of this indar. Interested students should contact the Department of ematics and Computing Science Co-op advisor before the their first year.

mailt for Duplicate Courses

bludent who has received credit for an advanced mathematics puting science course may later receive credit for a ematics or computing science prerequisite to the course bout permission of the Department. With renumbered or uctured courses, students are advised that they are not ble to take a course for credit if they already have a credit for imparable course, even if that course was taken at a different or under a different number.

oper Level Course Offerings

inder to help major and honors students plan their course of mdy, each year during the second semester, the Department will bibute a list of upper level courses that it plans to offer in the wing two academic years. Although every effort will be made pep this schedule, no absolute guarantee can be made.

Mathematics (MAT)

paratory Courses

T 010.1(.2)/011.1(.2) and 050.1(.2)/051.1(.2) are accepted as equivalent of Nova Scotia Grade 12 Mathematics. MAT (.2)/011.1(.2) are intended primarily for students entering bural sciences or mathematics, and include emphasis on mometry as well as algebra. MAT 050.1(.2)/051.1(.2) are for Immerce and social science students who do not have Nova intia Grade 12 Mathematics or equivalent.

T 210.1(.2)/211.1(.2) are the first courses in calculus, and AT 310.1(.2)/311.1(.2) combined form the natural calculus

INT 320.1(.2) provides an introduction to linear algebra, while ther topics in linear algebra are covered in MAT 321.1(.2).

Secialized Courses

dents may obtain a degree which has a special emphasis in ne of the areas indicated below by choosing the majority of their bional courses from those listed following the area of selection:

| Secial Emphasis in Pure Mathematics: | AT 370.1(.2); 401.1(.2); 402.1(.2); 420.1(.2); 421.1(.2); **26.1**(.2); 427.1(.2); 430.1(.2); 432.1(.2); 436.1(.2); 437.1(.2); 41.1(.2); and 442.1(.2).

becial Emphasis in Applied Mathematics:

MT 207.1(.2); 308.1(.2); 309.1(.2); 315.1(.2); 316.1(.2); 01.1(.2); 402.1(.2); 405.1(.2); 406.1(.2); 408.1(.2); 409.1(.2); 10.0; 415.1(.2); 416.1(.2); 445.0; 456.1(.2); and 457.1(.2).

budents who lack the stated high school courses prerequisite for edit courses in mathematics or computing science are advised enrol in MAT 010.1(.2)/011.1(.2) in Year 1.

equirements for a Major in Mathematics

major in mathematics is offered for students working towards e degrees of Bachelor of Arts and Bachelor of Science and for ludents of above average ability working towards the degrees of

chelor of Arts (Honors) and Bachelor of Science (Honors).

he Departmental requirements for a major in mathematics are:

MAT 210.1(.2)/211.1(.2) CSC 226.1(.2)/227.1(.2) MAT 310.1(.2)/311.1(.2)

MAT 320.1(.2)/321.1(.2)

A minimum of four (4.0) [three (3.0) in case of double major]

additional credits in mathematics courses numbered 305 or above, chosen by the student in consultation with the Department. At least two (2.0) credits [one (1.0) in case of double major] must be at the 400 level or above.

Requirements for Honors in Mathematics

The honors 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 honors program, and are advised to consult with the Department before making a final decision.

The Departmental requirements for honors in mathematics are:

- MAT 210.1(.2)/211.1(.2) 1.
- 2. CSC 226.1(.2)/227.1(.2)
- 3. MAT 310.1(.2)/311.1(.2)
- 4. MAT 320.1(.2)/321.1(.2)
- A minimum of seven (7.0) [four (4.0) in case of double honors] additional credits in mathematics courses numbered 305 or above, chosen by the student in consultation with the Department. At least four (4.0) credits [two (2.0) in case of double honors) must be at the 400 level or above.

(i) Students must obtain formal Departmental approval of their program at the time of their declaration to enter the major or honors program, as well as for any subsequent changes,

(ii) Students taking a major or honors in mathematics are permitted credit for at most one of BIO 308.1(.2), ECO 207.1(.2), MAT 207.1(.2), MSC 207.1(.2), or PSY 350.1(.2); and shall not be permitted credit for any of these courses simultaneously with or subsequent to MAT 316.1(.2).

(iii) Major and honors students in mathematics can use CSC courses to satisfy Faculty of Science regulation 6e or 12b.

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:

- MAT 210.1(.2), 211.1(.2), 310.1(.2), 311.1(.2),
- 320.1(.2), and 321.1(.2) (3.0 credits)

b. Four additional half-credit courses (2.0 credits) in mathematics numbered 200 or above.

Requirements for a Double Major or Double Honors in Mathematics and Physics 5

Detailed requirements for these programs are found above in the Department of Astronomy and Physics.

010.1(.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.

011.1(.2) Precalculus II Prerequisite: MAT 010.1(.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.

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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.

050.1(.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.

051.1(.2) Algebra for Commerce and the Social Sciences II Prerequisite: MAT 010.1(.2) or MAT 050.1(.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.

190.1(.2) Pre-Calculus Review

Prerequisite: recommendation of the Department of Mathematics and Computing Science.

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, legarithms, 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 MAT 190.1(.2) are exempted from writing the pre-test for MAT 210.1(.2).

(ii) MAT 190.1(.2) is given in the fall and summer of each year; MAT 210.1(.2) is given in the winter of each year; and MAT 211.1(.2) is given in the summer of each year. Thus, if you do not pass the pre-test, it is possible to take MAT 190.1(.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 MAT 210.1(.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 honors 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.

207.1(.2) Survey of Statistics

Prerequisite: The equivalent of Nova Scotia Precalculus Mathematics 12 or Mathematics 12 Academic.

This course provides an introduction to statistics accessible for students in any discipline. 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 1/2 hrs. a week. 1 semester.

Notes

(i) ** Students who do not pass at least one of the two pre-tigin this course will be required to withdraw from this course. The students are advised to take MAT 050.1(.2) before attempting MAT 207.1(.2) again.

(ii) No credit will be given for this course simultaneously with subsequent to credit given for BIO 308.1(.2), ECO 207.1(.2), ECO 303.1(.2), MAT 316.1(.2), MSC 207.1(.2), MSC 303.1(.1) PSY 305.0.

210.1(.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, exponent and logarithmic functions, the mean value theorem, 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 pass at least one of the two pre-takes in this course will be required to withdraw from this course and will be eligible to re-register only after successful completions of MAT 190.1(.2).

211.1(.2) Introductory Calculus II Prerequisite: MAT 210.1(.2).

Topics will include: area under a curve, the definite integral, the fundamental theorem of calculus, applications such as volumed work, inverse trigonometric functions, techniques of integration! 'Hôpital's rule, improper integrals, arc length, surface area, parametric equations, simple differential equations, approximating tegration.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

212.1(.2) Calculus II for Engineers Prerequisite: MAT 210.1(.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. Mora 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 a length in polar coordinates. Sequences and series, the integratest, and the companison test, alternating series, absolute convergence. Power series, Taylor and MacLaurin series. The binomial series, approximation by Taylor polynomials.

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Classes 3 hours plus recitations 1½ hours a week. 1 semes

Note: Since this course replaces MAT 211.1(.2) for Engineering students only, these students cannot receive a credit for both MAT 211.1(.2) and MAT 212.1(.2).

301.1(.2) Linear Algebra for Engineers Prerequisite: MAT 211.1(.2)/212.1(.2).

Geometric vectors in three dimensions, dot product, norm cosiformulas, Schwartz inequality, 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, reschelon form, applications. Matrix algebra, matrix multiplication matrix inverse, application to networks and graphs. Determination and Cramers rule. Linear independence, bases, dimensions and

Linear transformations: definition and examples, null space tange. Eigenvalues and eigenvectors, applications, addization of symmetric matrices. Inner product spaces, least tares problems, orthonormal sets, Gram-Schmidt addization process.

bases 3 hours plus recitation 1 1/2 hours a week. 1 semester.

Students cannot receive credit for both MAT 301.1(.2) and 320.1(.2).

11(.2) Differential Equations for Engineers
equisite: MAT 212.1(.2) and 301.1(.2). Students must coster in MAT 311.1(.2).

order differential equations; separable equations; exact tions; integral equations; integrating factors; linear rential equations; modelling electric circuits. Second order rential equations: homogeneous linear equations; constant icient equations; Euler-Cauchy equations; Wronskian; nonpaeneous equations; undetermined coefficients; variation of meters; modelling forced oscillations and resonance telling electric circuits phasor methods for particular solutions. er series solutions. Legendre's equation. Laplace transform, rse transform. Linearity; transforms of derivatives and oral; s-shifting; t-shifting; unit step. Differentiation and gration of Laplace Transforms. Partial fractions method for rse Laplace Transform. Applications to systems of differential ntions, convolutions, the delta function, impulse response, sfer function. Periodic driving functions and Laplace sforms. Fourier series: even and odd functions; half range essions; Complex Fourier series; applications to systems en by various periodic functions (e.g., square, wave, saw etc.) The line spectrum.

sses 3 hours plus recitation 1 1/2 hours a week. 1 semester.

te: Since this course replaces MAT 310.1(.2) for Engineering dents only, these students cannot receive a credit for both at 310.1(.2) and MAT 303.1(.2).

6.1(.2) Survey of Discrete Mathematics requisite: MAT 210.1(.2)/211.1(.2).

is course will provide an overview of several topics in discrete thematics which are of particular interest to students intending ther studies in computing science.

basses 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

bute: No credit will be given for this course simultaneously with subsequent to MAT 205.1(.2).

88.1(.2) Numerical Analysis I

requisite: MAT 210.1(.2)/211.1(.2) and either CSC 101.1(.2), 26.1(.2), or equivalent programming experience.

discussion of errors in numerical analysis. Theoretical and ctical considerations of numerical procedures in non-linear ations in one variable, including polynomial equations, in terms of linear equations, and systems of non-linear equations. brief discussion of vectors, matrices and norms.

09.1(.2) Numerical Analysis II

prequisite: MAT 308.1(.2) or permission of instructor.

heoretical and practical considerations of numerical procedures function approximations including splines, interpolation and last squares and in numerical integration.

10.1(.2) Intermediate Calculus I requisite: MAT 210.1(.2)/211.1(.2).

pperbolic and inverse hyperbolic functions, the conic sections, blar coordinates, area, tangent lines and arc lengths in polar pordinates, vectors in three dimensions, operations with vectors, bt and cross products, lines in space, planes, quadric surfaces,

cylindrical and spherical coordinate systems, derivatives and integrals of vector valued functions, tangent and normal vectors, motion in space. Indeterminate forms and l'Hôpital's rule, improper integrals, the limit of a sequence, monotone sequences, convergence tests for positive series, absolute and conditional convergence, power series, algebraic operations on power series, differentiation and integration of power series. Taylor and Maclaurin series. Taylor's theorem with remainder, approximation by Taylor's polynomials.

Classes 3 hrs. plus recitation 1 1/2 hrs. a week. 1 semester.

Note: No credit will be given for this course subsequent to MAT 300.0.

311.1(.2) Intermediate Calculus II

Prerequisite: MAT 310.1(.2) or both MAT 212.1(.2) and 301.1(.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.

Note: No credit will be given for this course subsequent to MAT 300.0.

315.1(.2) Introduction to Probability Theory Prerequisite: MAT 210.1(.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 vanables, 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.

Note: No credit will be given for this course subsequent to MAT 314.0.

316.1(2) Introduction to Mathematical Statistics Prerequisite: MAT 210.1(.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.

Note: No credit will be given for this course subsequent to MAT 314.0.

320.1(.2) Linear Algebra I

Prerequisite: MAT 210.1(.2)/211.1(.2).

This course presents the basic concepts and techniques of linear algebra, including Gaussian elimination, matrix algebra, vector

spaces, orthogonality and inner products, together with various applications and computational methods.

Classes 3 hrs. plus recitation 1 hr. a week. 1 semester.

321.1(.2) Linear Algebra II Prerequisite: MAT 320.1(.2).

This course continues MAT 320.1(.2) with further concepts and theory of linear algebra. Topics include determinants, linear transformations and their matrix representation, change of basis and similarity, eigenvalues and eigenvectors, canonical forms, with applications to linear differential equations and quadratic forms.

Classes 3 hrs. plus recitation 1 hr. a week. 1 semester.

370.1(.2) Problem-Solving Seminar

401.1(.2) Sequences, Series and Improper Integrals Prerequisite: MAT 311.1(.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.

402.1(.2) Vector Calculus

Prerequisite: MAT 311.1(.2) and 320.1(.2).

Topology of Rⁿ, 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 vanables theorem and evaluation of multiple integrals. A review of vector field theory, line and surface integrals, the integral theorems of Green and Strokes, the divergence theorem.

405.1(.2) Differential Equations I

Prerequisite: MAT 311.1(.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 MAT 303.1(.2) and MAT 405.1(.2).

406.1(.2) Differential Equations II

Prerequisite: MAT 311.1(.2); MAT 303.1(.2) or MAT 405.1(.2); MAT 301.1(.2) or MAT 320.1(.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.

408.1(.2) Advanced Numerical Analysis I

Prerequisite: MAT 309.1(.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.

409.1(.2) Advanced Numerical Analysis II Prerequisite: MAT 408.1(.2).

Theoretical and practical considerations of numerical analysis the solutions of ordinary and partial differential equations.

414.0 Statistical Simulation Theory

415.1(.2) Mathematical Statistics

Prerequisite: MAT 311.1(.2) and a course in the Pascal comparing 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 same statistics and tests of related hypotheses are included.

Applications to computer science are studied.

416.1(,2) Mathematical Probability

Prerequisite: MAT 311.1(.2) or pennission 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.

420.1(.2) Abstract Algebra I

Prerequisite: MAT 321.1(.2) or permission of instructor.

The study of algebraic structures, such as groups, rings, fields posets, graphs, or universal algebras. The major emphasis will on derivation of theory, with inclusion of applications and examples.

421.1(.2) Abstract Algebra II

Prerequisite: MAT 420.1(.2) or pennission of instructor.

The further study of algebraic structures and their applications

426.1(.2) Introduction to Combinatorics

Prerequisite: MAT 311.1(.2) or 320.1(.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.

427.1(.2) Computational Methods in Graph Theory Prerequisite: MAT 311.1(.2) or 320.1(.2) or permission of instructor.

This course discusses various graph theoretic algorithms and their application to different problems. Topics to be discussed be chosen from the following: the connector problem, the should 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.

430.1(.2) Set Theory

Prerequisite: MAT 311.1(.2) or 320.1(.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.

432.1(.2) Elementary Topology

Prerequisite: MAT 311.1(.2) and 321.1(.2); MAT 430.1(.2) is recommended.

This course will begin with a study of the topology of metric spaces. Topics will include bounded and totally bounded sets

leteness and fixed point theorems. Following this, abstract ibgical spaces will be studied.

1(.2) Geometry

equisite: MAT 320.1(.2) or 420.1(.2) or permission of Inctor.

- important ideas of modern mathematics, such as the matic method, emerged from the study of geometry. This examines topics in geometry from Euclid to the present which may include axiomatic geometry, constructive etry, inversive geometry, projective geometry, nonbidean geometry, and combinatorial geometry.
- No credit will be given for this course subsequent to a bated study course on geometry [MAT 490.1(.2)]. 11(.2) Theory of Functions of a Complex Variable I equisite: MAT 310.1(.2) and 311.1(.2).
- be complex plane. Elementary transformations and mappings, functions, infinite series and uniform convergence. rentiation and integration in the complex plane, residue. monic functions, entire and merimorphic functions. Some inciples of conformal mapping theory.
- No credit will be given for this course simultaneously with bubsequent to MAT 435.0.
- 1.1(.2) Theory of Functions of a Complex Variable II requisite: MAT 436.1(.2).
- pontinuation of MAT 436.1(.2). Further study of analytic lections and conformal mapping theory.
- ** No credit will be given for this course simultaneously with subsequent to MAT 435.0.
- 1.1(.2) Real Analysis I requisite: MAT 310.1(.2) and 311.1(.2).
- bits, functions and relations, the real number field, the least per bound axiom, countability, sequences and subsequences. furnulation points, metric spaces, continuous functions, Morm continuity, monotone and inverse functions, compactness and connectedness, series of functions, uniform convergence, bgration and differentiation of series of functions.

wate: No credit will be given for this course simultaneously with subsequent to MAT 440.0.

642.1(.2) Real Analysis II Perequisite: MAT 441.1(.2).

Burther topics on metric spaces. Baire category theorem, the pace of continuous functions, fixed points and integral equations, Arzela-Accoli theorem, the Stone-Weierstrass borem. Picard existence theorem for differential equations. memann Integrability, sets of measure zero, Lebesgue Theorem.

Mote: No credit will be given for this course simultaneously with subsequent to MAT 440.0.

145.0 Introduction to Operations Research

456.1(.2) Introduction to Applied Mathematics I Prerequisite: MAT 303.1(.2) or 405.1(.2).

Pointwise and uniform convergence of sequences and series of nctions. Tests for uniform convergence, continuity, integral, and differentiability of functions defined by sequences and series. Pointwise and uniform convergence of improper integrals bepending on a parameter. Tests for uniform convergences of proper 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.

457.1(.2) Introduction to Applied Mathematics II Prerequisite: MAT 456.1(.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.

490.1(.2) to 499.1(.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.

500.0 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 honors students.

Directed study 6 hrs. a week. 2 semesters.

Computing Science (CPS)

The Department provides a broad range of courses in computing science, including introductory courses intended for students with little background in the area, preparatory courses for students intending to enter fields requiring computing science, and specialized courses for more advanced computing science students. The Department also offers honors and major degree programs in computing science; these degrees reflect the nature of computing science, notably a core of computer science courses with an additional emphasis in mathematics. The Department also offers a minor in computing science.

Introductory Courses

CSC 101.1(.2)/CSC 102.1(.2) are introductions to computing science and programming designed for the student with little background in the subject, who may have only casual interest in programming or need only limited knowledge for application in other subjects. Note: The above courses are not allowed as CSC credit towards an honors, major, or minor in computing science.

Preparatory Courses

CSC 226.1(.2)/CSC 227.1(.2) is intended to be the first pair of courses for all students who intend to pursue further studies in computing science.

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:

- CSC 226.1(.2) and 227.1(.2)
- 2. CSC 327.1(.2) and 328.1(.2)
- 3. CSC 341.1(.2) and 342.1(.2)
- One (1.0) credit chosen from CSC 428.1(.2), 430.1(.2), 431.1(.2),and 451.1(.2)
- 5. MAT 210.1(.2) and 211.1(.2)
- MAT 305.1(.2), 308.1(.2), 316.1(.2), and 320.1(.2)
- 7. One (1.0) additional credit in MAT numbered 306 or above.
- A minimum of two (2.0) [one (1.0) in the case of a double major] additional credit(s) in CSC courses numbered 306 or above. Except in the case of a double major, at least one (1.0) credit must be at the 400 level or above.

Requirements for an Honors in Computing Science

The honors 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 CSC and MAT courses should consider enrolling in the honors program and are advised to consult with the Department before making a final decision. The Departmental requirements for honors in computing science are:

- 1. CSC 226.1(.2) and 227.1(.2)
- 2. CSC 327.1(.2) and 328.1(.2)
- 3. CSC 341.1(.2) and 342.1(.2)
- 4. CSC 428.1(.2), 430.1(.2), 431.1(.2), and 451.1(.2)
- 5. MAT 210.1(.2) and 211.1(.2)
- 6. MAT 305.1(.2), 308.1(.2), 316.1(.2), and 320.1(.2)
- Two (2.0) [one (1.0) in the case of double honors] additional credits in MAT numbered 306 or above
- 8. A minimum of four (4.0) [one (1.0) in the case of double honors] additional credits in CSC courses numbered 306 or above. Except in the case of double honors, at least two (2.0) credits must be at the 400 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 honors program, as well as for any subsequent changes.

(ii) Students taking a major of honors in computing science are permitted credit for at most one of MAT 207.1(.2), BIO 308.1(.2), ECO 207.1(.2), MSC 207.1(.2), or PSY 350.1(.2), and shall not be permitted credit for any of these courses simultaneously with or subsequent to MAT 316.1(.2).

(iii) Courses with MAT or CSC designation cannot be used to satisfy requirements 6(e) or 12(b) of the Faculty of Science regulations regarding Science electives outside the discipline. In the case of a double major in computing science and a discipline other than mathematics, two (2.0) MAT courses may be used to satisfy the Faculty of Science requirement 7(b) for "two (2.0) science credits not in the major subjects...". In the case of a double honors in computing science and a discipline other than mathematics, one (1.0) MAT credit may be used to satisfy the part of Faculty of Science requirement 12(d) that requires "one (10) credit in another science".

(iv) Related courses offered by other Departments may be allowed for CSC credit, with approval of the Department of Mathematics and Computing Science.

(v) Students persuing a double honors in Mathematics and Computing Science must take enough courses in Mathematics and Computing Science to satisfy regulation 7(a) of the Faculty of Science regulations.

Upper Level Course Offerings

In order to help major and honors students plan their course of study, each year during the second term, the Department will distribute a list of upper level courses that it plans to offer in the following two academic years. Although every effort will be made to keep this schedule, no absolute guarantee can be made.

Requirements for a Minor in Computing Science It is possible to obtain a minor in computing science by completing five (5.0) credits in CSC in addition to satisfying the Faculty of Science regulations for a minor. These courses must include:

- 1. CSC 226.1(.2) and 227.1(.2) (1.0 credit)
- 2. CSC 327.1(.2), CSC 328.1(.2), CSC 341.1(.2), and CSC 342.1(.2)
- 3. Four half-credit (2.0 credits) CSC courses at the 300 level or above.

Computing Science and Business Administration (CSC)

This is an interdisciplinary four year degree combining Computations and 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 knowledged 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 bekt. For prerequisite reasons, please note that certain courses show be taken by the end of the period indicated so that the program can be completed in four years.

- 1. Computing Science courses (6.0 credits)
- 1.1 *CSC 226.1(.2) and *CSC 227.1(.2) (first year) (1.0 credit
- 1.2 *CSC 327.1(.2), *CSC 328.1(.2), *CSC 341.1(.2), and *CS 342.1(.2) (second year) (2.0 credits)
- 1.3 *one (1.0) additional credit in third year
- 1.4 *two (2.0) additional credits in fourth year

The credits referred to in 1.3 and 1.4 must be at the 300 level or above and at least two (2.0) of these credits must be at the 400 level or above. With the approval of the Program Co-ordinates students may be allowed to take up to one-and-a-half (1.5) computing science credits given by other departments.

- 2. Mathematics and Statistics courses (2.5 credits)
- 2.1 *MAT 210.1(.2) and *MAT 211.1(.2) (first year) (1.0 credit
- 2.2 *MAT 305.1(.2) and *MAT 320.1(.2) (third year) (1.0 credil
- 2.3 *MSC 207.1(.2) (second year) (0.5 credit)
 *MAT 211.1(.2) and *MSC 207.1(.2) may be replaced by
 *MAT 315.1(.2) and *MAT 316.1(.2)
- 3. Commerce courses (7.0 credits)
- 3.1 *MGT 281.1(.2) (first year or first term of second year) (0.4 credit)
- 3.2 *MGT 383.1(.2) and *MGT 384.1(.2) (third year) (1.0 cred
- 3.3 *MGT 489.1(.2) (fourth year) (0.5 credit)
- 3.4 *ACC 241.1(.2) and *ACC 242.1(.2) (second year) (1.0 credit)
- 3.5 *ACC 332.1(.2) (third year) (0.5 credit)
- 3.6 *ACC 323.1(.2) (fourth year) (0.5 credit)
- 3.7 *FIN 360.1(.2) and *FIN 361.1(.2) (third year) (1.0 credit)
- 3.8 *MKT 270.1(.2) (third year) (0.5 credit)
- 3.9 *MSC 425.1(.2) (fourth year) (0.5 credit)
- 3.10 *ECO 201.1(.2) and *ECO 202.1(.2) (first year preferably or second year) (1.0 credit)
- Other courses (4.5 credits) EGL 201.1(.2) and either EGL 203.1(.2) or 204.1(.2) (first year) (1.0 credit)
- 4.1 Science electives that satisfy regulation 4(e) of the Facultion of Science, except only 2.0 credits required
- 4.2 Arts and/or Economics courses that satisfy regulation 4(d) the Faculty of Science, except only 1.0 credit is required
- 4.3 Free elective (0.5 credit)

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 200 level or above.
- (iii) Credit will not be given for any introductory computing course if taken subsequent to CSC 226.1(.2).
- (iv) Credit will not be given for MSC 205.1(.2), MSC 206.1(.2) or other preparatory or introductory courses if taken subsequent

concurrent with MAT 210.1(.2) or MAT 211.1(.2). For students in this program, MAT 210.1(.2) can replace 205.1(.2) or MSC 206.1(.2) as a prerequisite for other merce courses.

For students in this program, CSC 227.1(.2) can replace 225.1(.2) as a prerequisite for other commerce courses. ever, a knowledge of the topics covered in MSC 225.1(.2) will sumed in other courses.

1.1(.2) Fundamentals of Computing Science I broduction to the fundamentals of computing science, anded for students with little or no experience with computers mputer programming. Topics to be covered include nology, problem solving, algorithm design, coding, testing, **Mocumentation**.

bases 3 hrs. and lab 3 hrs. a week, 1 semester.

1(.2) Fundamentals of Computing Science II equisite: CSC 101.1(.2) or pennission of instructor.

pics to be covered include: information storage and access, puter architecture, communications, and applications.

bases 3 hrs. and lab 3 hrs. a week. 1 semester.

1(.2) Introduction to Computing Science and gramming

requisite: There is no formal prerequisite for this course; ever, some prior experience with analytical thinking is highly

s course is designed to introduce the student to some of the concepts in computing science and simultaneously provide ductory hands-on experience using a modem programming nuage. General topics will include a brief history of computing: place of hardware, software, and policies in any computing comment; a high-level view of the components of a computing lem; and the tools one can expect to find in any programming ronment. Programming language topics will include t/output; simple data types; operators and expressions; ping and decision-making control constructs; subprograms parameter passing; overall program structure and gramming style considerations. Problem-solving and ram-design strategies will include divide-and-conquer and down design with step-wise refinement. Students will design withms with data input and output to solve particular blems, and later implement those solutions as computer grams in the current programming language of choice.

lesses 3 hrs. and lab 3 hrs. a week. 1 semester.

3.1(.2) Intermediate Programming and Problem Solving rerequisite: CSC 226.1(.2).

his course is designed to extend the student's knowledge of; and provide additional hands-on experience with, the anguage encountered in CSC 226, in the context of structured data types provided by that language, and within he larger contexts of abstract data types and more complex blem-solving situations. Techniques for managing file input and output in the current language will also be studied. A number dassical algorithms and data structures for the storage and anipulation of information of various kinds in a computer's memal memory will be studied. The student will acquire the mowledge that comes from actually implementing a non-trivial stract data type and the experience that comes from having to ake use, as a client programmer, of an abstract type that has bready been implemented.

passes 3 hrs. and lab 3 hrs. a week. 1 semester.

301.1(.2) Data Structures and Numerical Methods for Engineers

Perequisites: CSC 226.1(.2) or EGN 204.1(.2)

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 leaning to implement properly structured solutions.

Note: This course is intended only for Engineering students. Computing Science students (CPS or CSC) should take CSC 341.1(.2) and CSC 342.1(.2) instead. No credit will be given for this course simultaneously with or subsequent to CSC 341.1(.2).

327.1(.2) Digital Logic and Assembly Level Machine Organization

Prerequisite: CSC 227.1(.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 lab 3 hrs. a week. 1 semester.

Note: No credit will be given for this course simultaneously with or subsequent to credit given for CSC 326.0. 328.1(.2) Computer Architecture Prerequisite: CSC 327.1(.2).

This course builds on the experience obtained in CSC 327. 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.

Note: No credit will be given for this course simultaneously with or subsequent to credit given for CSC 326.0.

341.1(.2) Algorithmic Foundations of Computing Science Prerequisite: CSC 227.1(.2). Corequisite: MAT 305.1(.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 lowerbound 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

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

Note: No credit will be given for this course simultaneously with or subsequent to CSC 325.0 or CSC 345.0.

342.1(.2) Data Structures and Algorithms Prerequisite: CSC 341.1(.2).

This course provides an introduction to data structures and associated algorithms. Students will build on the theoretical and programming skills developed in CSC 226/227 and CSC 341 through a systematic study of some of the fundamental computing science concepts. The course will use the basis for evaluating algorithms, established in CSC 341, 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 lab 3 hrs. a week. 1 semester.

Note: No credit will be given simultaneously with or subsequent to CSC 325.0 or CSC 345.0.

421.1(.2) Data Communications and Networking Prerequisite: CSC 327.1(.2).

The objective of this course is to give students a practical introduction to data communications, computer networks, and internetworking. The course covers a wide range of topics, giving students an overview of the physical elements, the architectural elements, and the information layers of a communications network. The following topics will be included: point-to-point communications; wide and local area networks; data encoding and transmission techniques; date link control; packet switching; network architecture and communication protocols; and traffic management and applications.

423.1(.2) Cryptography

Prerequisite: CSC 342.1(.2) and MAT 305.1(.2).

This course provides an introduction to various aspects of data security. Possible topics: classical encryption methods such as Vignere and Veman 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.

426.1(.2) Distributed Systems

428.1(.2) Software Engineering

Prerequisite: CSC 342.1(.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.

Seminar 3 hrs. a week. 1 semester.

430.1(.2) Principles of Programming Languages Prerequisite: CSC 342.1(.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, manipulational sharing; type checking; storage management; control structures; language mechanisms that support modularity; syntam semantics. The laboratory component will provide hands—experience with several different languages from different paradigms.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

Note: This course was formerly CSC 332.1(.2). No credit will be given for this course if a student has already taken CSC 332.1(.2).

431.1(.2) Operating Systems

Prerequisite: CSC 328.1(.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 network distributed operating systems; and real-time concems. Example of two or more operating systems will be used to gain some systems programming experience.

434.1(.2) Programming Language TranslationPrerequisite: CSC 328.1(.2), 342.1(.2) and one of CSC 332.1(.2) or 430.1(.2).

In this course students will study the process of translating a program in a high-level language to an equivalent program in a lower-level language. Topics will include: the relationship between languages and machines; the similarities and differences between interpreters and compilers; and the analytical and synthesis phases of the translation process. Students will gain hands-on experience by designing and implementing partition of a simple language translator.

451.1(.2) Theory of Computation

Prerequisite: CSC 341.1(.2) and MAT 305.1(.2).

This course provides an introduction to some of the fundament 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 language and corresponding automata for recognizing these languages 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.

452.1(.2) Algorithm Analysis

Prerequisite: CSC 342.1(.2) and MAT 305.1(.2).

This course will build on the concepts of algorithm analysis introduced in CSC 341. 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, pelynomial time reducibility, and NP-completeness- will also be provided.

461.1(.2) Database Systems

Prerequisite: CSC 342.1(.2).

This course provides an introduction to the design, implementation, use and maintenance of databases. Topics wi 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

the theory of normal forms of database design; use of mes for efficient date retrieval; and database implementation a commercial database management system. Other topics be included, such as query optimization, database control, distributed database systems.

(1) File Structures equisite: CSC 342.1(.2).

bourse provides the student with the tools and techniques ired to organize and efficiently maintain data on a secondary age devices. The course will consider the implementation berformance of structures such as fields, records and lers; primary and secondary indexes; multi-level indexes and bees; indexed sequential files; and hash structures. Also luded will be some discussion of advanced sort and merge withms for secondary storage.

1.1(.2) Numerical Software

1(.2) Object-Oriented Programming requisite: CSC 342.1(.2).

course provides and introduction to object-oriented analysis, mign, and programming. Emphasis will be on the creation of sable software. The object-oriented approach to software belopment will be compared and contrasted with other maches, such as the classical "structured" approach. dents will gain hands-on experience by programming in a table object-oriented programming language.

1.1(.2) Computer Graphics

474.1(.2) Information Retrieval

482.1(.2) Artificial Intelligence Prerequisite: CSC 342.1(.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, neutral 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 on or more of the popular Al tools.

491.1(.2) to 499.1(.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

Seminar 3 hrs. a week. 1 semester.

500.0 Research Thesis

Prerequisite: honors 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

assics: Ancient History (CLA) - Classical Literature and pilization (CLA) - Ancient Egyptian (EGP) - Greek (GRE) -Latin (LAT)

Modern Languages: Arabic (ARA) - Chinese (CHI) - English as a Second Language (ESL) - French (FRE) - German (GER) Italian (ITA) - Japanese (JPN) - Spanish (SPA)

Chairperson, Associate Professor

G. Nahrebecky

Classics

professor **Associate Professor Idjunct Professor**

V. Tobin G. Thomas J-P. Huguet

French rofessor

K. Flikeid

Associate Professors

P. Bemard, J. Cauville, G. Nahrebecky

Assistant Professor

S. Beaulé

Adjunct Professor

J. Penel

Berman

Associate Professor

M. Heukaeufer

Japanese

Assistant Professor

C. Beaupré

Spanish Professor

A. Farrell

Department Policy - Modern Languages and Classics The Department of Modern Languages and Classics offers major programs in Classics, French, German Studies; Hispanic Studies; language and literature courses in ancient Egyptian, Greek, and Latin; language courses in Arabic, Chinese, Italian, and Japanese; and English as a Second Language.

The program in Classics is comprised of courses of instruction in languages, literature, history, culture and civilization. One of the

language courses may be used to satisfy the 3b requirement of the Faculty of Arts while the other courses in Classics may be used to satisfy the 3c requirement.

Recognizing the significance of the cultural links between the classical civilizations of Greece and Rome and their later European descendants, the Department encourages its students to explore language as an evolving tool of communication and expression. Students majoring in Classics are strongly advised to study at least one of the classical languages; Latin is a valuable asset for students majoring in French, German Studies or Hispanic Studies.

The student's eligibility to enrol in language and literature courses, and in specific sections of those courses, is determined by the Department 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.

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.

Students enroling in any French course below the 300 level will be required to take a placement test (unless they have previously taken a French course at this University at the 200 level). Since this test is administered on the first day of classes, attendance at this first class is required.

Major and Minor Concentrations

Students intending to major in Classics, French, German Studies, or Hispanic Studies are required to consult 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. The following general requirements apply:

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Major in Classics

A major in Classics consists of six (6.0) credits, four (4.0) of which must be at the 300 level or above. One (1.0) credit is required in an ancient language, e.g., Egyptian, Greek, or Latin.

The following are recommended as core courses for the major:

CLA 201.1(.2) Mythology of Greece and Rome I CLA 202.1(.2) Mythology of Greece and Rome II

CLA 301.1(.2) Art in Greece and the Ancient Near East

CLA 302.1(.2) Art in Rome and Christian Europe to the 14th

Century
CLA 303.0 History of Greece
CLA 304.0 History of Rome

CLA 306.0 The Epic
CLA 310.0 History of Israel
CLA 316.0 History of Egypt

CLA 352.1(.2) Women in Antiquity I

CLA 353.1(.2) Women in Antiquity II

Major in French

A major in French normally consists of at least six (6.0) credits in French beyond FRE 231.1(.2) with the following requirements:

FRE 300.0 and 301.0;

One (1.0) 300 or 400 level credit in culture;

One (1.0) 400 level credit in literature;

One (1.0) 400 level FRE elective.

Language Courses	Culture Courses	Literature Courses
110.0	305.1(.2)	300.0
200.0	310.1(.2)	405.1(.2)
230.1(.2)	312.1(.2)	412.1(.2)
231.1(.2)	405.1(.2)	416.1(.2)
250.0	412.1(.2)	417.1(.2)
301.0	440.1(.2)	418.1(:2)
320.1(.2)		419.0
321.1(.2)		420.0
325.1(.2)		426.1(.2)
333.1(.2)		427.1(.2)
335.1(.2)		428.1(.2)
400.1(.2)		433.1(.2)
421.0		434.1(.2)
430.0		

Courses below FRE 250.0 cannot be counted towards the major. Courses at the 200 and 300 level cannot be taken concurrently. Those having a solid background in French, especially Francophones and high school immersion graduates, are urged to begin their studies with courses beyond FRE 250.0. 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 FRE 110.0, 200.0,

230.1(.2), 231.1(.2), and 250.0 in order to provide students with the course that best suits their needs.

Students interested in teaching French as a career should seek advice on course selection and teacher training programs as early as possible.

There is an honors program in French which follows the general university requirements.

Minor in French

A minor in French consists of four (4.0) credits in French beyond FRE 110.0, with at least two (2.0) of these being at the 300 level or above.

Certificate of Proficiency in French for Non-Majors

This certificate signifies that the student has earned four (4.0) credits beyond FRE 200.0, 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.

Year Abroad at the Université Catholique d'Angers, France This year-abroad program consists of a month-long intensive French language session in September, and two semesters (mile October through mid-June) of course work in language and related subjects. Normally, students who successfully complete these segments of the program receive five (5.0) credits at Saint Mary's. An optional one-month program is offered in July, designed specifically for intensive work in spoken and written French. To be eligible to participate in this year-abroad program students must have the approval of the Dean and the Department, and must have completed at least one (1.0) credit French at Saint Mary's at the 200 level or above with a minimul grade of B.

With the Department's approval, a student may undertake a year of study at another French-speaking university.

Major in German Studies

A major in German Studies consists of at least six (6.0) credits. Four (4.0) compulsory credits in German language/literature. At least two (2.0) of those 4.0 credits have to be at the 300 or 400 level. The remaining two (2.0) credits may be taken in German language/literature, or may be from courses given in English and taken from other departments. Those courses will stress German listory, 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.

Certificate in German Language and Culture

Details of this program are delineated in Section 3 of this Calendar.

Major in Hispanic Studies

A major in Hispanic Studies (SPS) consists of at least six (6.0) credits, four (4.0) of which must be at the 300-level or above. Courses counting towards the major are normally chosen from among courses in language, literature and culture designated SPA, and include SPA 100.0, SPA 200.0 and SPA 302.0. After consultation with the Chairperson of Modem Languages and Classics, these can be supplemented [to a maximum of two (2.4 credits] by courses from other disciplines whose principal subjet are the arts, history or current reality of Spain and Spanish-speaking Latin America.

Certificate in Spanish Language and Hispanic Culture Details of this program are delineated in Section 3 of this Calendar.

Minor in German or Spanish

A minor in either of these subjects consists of four (4.0) credital with at least two (2.0) of these being at the 300-level or above. Normally, the first two (2.0) courses for the minor will be 100-and 200-level language courses in either German or Spanish, follow by two (2.0) credits to be chosen from offerings in the respective literatures and cultural studies.

Students entering the minor program already possessing some knowledge of the language should consult the faculty member concerned for assistance with course selection.

A minimum cumulative quality point average of 2.00 is required for courses in the minor program.

Minor in Linguistics

The minor in linguistics is described in Section 5 of this Academa Calendar under the heading of "Linguistics".

Classics - Ancient History (CLA)

303.0 History of Greece [HIS 350.0]

Prerequisite: 1.0 credit 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 classic

s about 400 B.C. Students will learn something of Greek jon, social history, and government, and in particular study development of Athenian democracy. This course may also used as a History credit.

HS 351.0]

requisite: 1.0 credit in Classics or History or the permission of bructor.

cient Roman and Italian history from the early Palaeolithic and solithic finds known to archaeology, a study of the Etruscans, Republic in glory and decline, and the advent of the Principate and Augustus. Subject matter and emphasis can vary in Berent years. This course may also be used as a History credit.

307.0 Ancient Rome in Film, Fiction, Fact HIS 357.0)

pudy of Ancient Rome from the fall of the Republic through the isst century of the Empire (Including such figures as Julius Besar, Augustus, Caligula, Nero) as portrayed in fiction and film; imparison of popular views of Rome with hypotheses and facts ased on historical and archaeological information.

M0.0 History of Israel REL 309.0]

astudy of the history of the ancient Hebrew kingdoms of Israel and Judah from the earliest settlements in Palestine to the fall of Israelem in 70 A.D.

▶16.0 History of Egypt

detailed study of the history and culture of ancient Egypt from 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 sythology and religion, art and architecture, and selections from literature of Egypt (e.g., Pyramid Texts, Coffin Texts, Egyptian pic and fiction).

405.0 Advanced Reading and Tutorial Perequisite: 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 poportunity to pursue in depth their individual interests in the field of Classics, and will meet regularly with a member of the pepartment to discuss their research. To register in this course budents must demonstrate a satisfactory background in Classics or the Ancient World of the Near East and an ability to do independent research.

Classics - Classical Literature and Civilization (CLA)

200.0 The Classical Civilizations of Greece and Rome
A general introduction to the civilizations of ancient Greece and
Rome with particular regard to history, political organization and
cultural contribution to modem western society.

201.1(.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

bdaptations of the ancient tales.

202.1(.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.

302.1(.2) Art in Rome and Christian Europe to the 14th Century

This course takes up the development of ancient art after the Hellenistic Greek world. It will show by readings, slides, films, tapes and lectures how earlier themes and techniques in art were carried on and modified by the Romans and by the Christians whose art grew out of a pagan background.

306.0 The Epic [EGL 306.0]

Prerequisite: EGL 201.1(.2)/202.1(.2) or a course 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 *lliad*, *Odyssey*, and *Aeneid*.

311.1(.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.

312.1(.2) Art of the Hellenistic World and of Rome Aided by slides, films and reproductions of artistic pieces in addition to lecturers and readings, the class will examine the origins, developments and particular interests of artists in the Hellenistic World and Rome.

313.1(.2) Art in Late Antiquity and Europe to the 14th Century [REL 372.1(.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.

352.1(.2) Women in Antiquity I [REL 306.1(.2)/406.1(.2); WMS 352.1(.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.

353.1(.2) Women in Antiquity II [REL 307.1(.2)/407.1(.2); WMS 353.1(.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.

401.1(.2) Directed Study I

A half-credit 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.

402.1(.2) Directed Study II

A half-credit course open to students who wish to pursue a special topic or topics in Classics through tutonals, independent study, and research. The availability of this course depends upon the agreement of a particular faculty member who is prepared to direct the tutonal and study program.

Classics - Ancient Egyptian (EGP)

300.0 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.

400.0 Readings in Middle Egyptian

Prerequisite: EGP 300.0.

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.

450.0 Readings in Old and Late Egyptian

Prerequisite: EGP 300.0.

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 (GRE)

100.0 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.

200.0 Second Year Ancient Greek

Prerequisite: GRE 100.0.

An application of the major grammatical points of the ancient Greek language through the reading of selected works of classical authors:

- i. Homer, Iliad
- li. Xenophon, Anabasis
- iii. the dramatists
- iv. lyric poetry

Classics - Latin (LAT)

100.0 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.

Text: Goldman, Nyenhuis, Latin Via Ovid.

201.0 Intermediate Latin

Prerequisite: LAT 100.0 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 (ARA)

100.0 Introduction to Arabic

Prerequisite: strictly for non-Arabic speakers.

An introductory language course for those beginning the study and Arabic language and culture. Designed to offer an initial competency in speaking, reading, and writing Arabic. Students with an Arabic-speaking background must enrol in ARA 230.0.

230.0 Reading and Writing Arabic

Prerequisite: basic knowledge of reading and writing Arabic.

This course is intended to develop proficiency in reading and writing with emphasis on grammar and dictation for Arabic speaking students.

Modern Languages - Chinese (CHI

100.0 Introductory Modern Chinese

An introduction to spoken and written modern Chinese (Mandarin). Conversational drill and comprehension exercises 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.

200.0 Intermediate Modern Chinese Prerequisite: CHI 100.0.

A continuation of CHI 100.0, this course is intended to develop proficiency in both oral and written Chinese with emphasis on comprehension. Textbooks, newspapers, magazines, and mode short stories will be used, especially in the second semester, to help students acquire the ability to read and write.

Modern Languages - English as a Second Language (ESL)

100.0 English as a Second Language

Prerequisite: native language other than English; recommendation of the English, Modem Languages and Classical or other academic department; and permission of instructor.

The aim of the course is to help students function effectively in university by improving reading and listening comprehension, fluency in speech, and accuracy in writing.

Modern Languages - French (FRE)

110.0 Beginners' French

Prerequisite: placement test.

An introductory course for students who have had some formal training in French but not enough to justify their admission to FRE 200.0 as demonstrated on the placement test. Students who have completed Nova Scotia Grade 12 French or equivalent are not eligible for enrolment in this course.

200.0 Basic University French

Prerequisite: placement test or FRE 110.0 with a minimum grade of C.

A student enroling in this course must have completed Nova Scotia Grade 12 French or already possess an equivalent knowledge of French, as demonstrated on the placement test. A general language course for non-majors interested in the continued development of their listening, speaking, reading and writing skills. Emphasis is placed on the student's ability to function orally in realistic contexts. Taught 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.

230.1(.2) French Communication Skills

Prerequisite: placement test or FRE 200.0 with a minimum grade of C.

This course builds on language skills acquired in other French burses to enhance the student's ability to communicate in ench. Thorough advanced preparation will be required for each lass, where oral activities predominate. Attendance in class is andatory.

wate: This course cannot be counted for the French major and is ot intended for immersion students or students with a encophone background.

1.1(.2) French Reading and Writing Skills requisite: placement test or FRE 200.0 with a minimum grade

This course focuses on improving students' ability to understand and produce written texts. It is designed to complement more hading and writing abilities. The course helps students acquire meral French courses by concentrating on the enhancement of reater ease of comprehension and expression through study of entemporary 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 ancophone background.

50.0 Intermediate French

rerequisite: placement test or FRE 200.0 (or equivalent) with a minimum grade of C.

Dral and written French, including composition, conversation, and review of grammar based on contemporary texts. This is an Mensive course designed for students with a solid background in French. Taught in French.

200.0 Introduction to Literature Written in French Perequisite: FRE 250.0 or permission of Department.

selection of modern writing in French drawn from poetry, fables, bort stories, drama and novels. The purpose of this course is to ach students to read literary language, to grasp structural mationships, and to interact with various works in terms of theme, paracter portrayal and metorical devices.

Note: This course is required of all students who intend to major or take honors in French.

01.0 Advanced French Language Skills Prerequisite: placement test or FRE 250.0 with a minimum grade of C.

A practical course intended to continue the development of the dent's linguistic abilities. This course focuses on writing skills, et also includes the aural/oral practice necessary for advanced tudies in French. Contemporary texts as well as audio-visual naterial will provide a basis for discussion and writing. Knowledge of intermediate level grammar is assumed. Grammatical points will be reviewed as required. This course is compulsory for all students who intend to major in French.

305.1(.2) Acadian Language and Culture [LIN 305.1(.2)]

Prerequisite: FRE 250.0 or equivalent.

This course relates the current linguistic situation in the Acadian communities of the Atlantic Provinces to the social and historical ituation which has influenced the development of the French anguage in these areas. The course has a strong practical component intended to help students identify the specific tructures of this variety of French. Authentic recordings of cadian 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.

310.1(.2) Introduction to French Culture Prerequisite: FRE 250.0 or permission of Department. This course will focus on contemporary culture in France, with some historical references. It will explore some of the concerns of France in the 1990's: a growing interest in ecological issues. technological advances, the challenges of a diverse immigrant population, the development of the European community and the attempt to reconcile French tradition with cultural changes. Films from the French Embassy. TV broadcasts, slides and newspaper articles will enable students to develop perspectives on French

312.1(.2) Introduction to Quebec Culture

Prerequisite: FRE 250.0 or permission of instructor.

The main purpose of the course is to inform students about present-day life in Quebec as well as to enable students to develop perspectives on their own culture. Varied approaches will be used to explore a wide array of topics, including bilingualism, politics, education, arts, etc. This course is of particular interest to current or prospective teachers of French.

320.1(.2) French Phonetics [LIN 321.1(.2)]

Prerequisite: FRE 250.0 or equivalent, or permission of instructor.

In this course students will gain insight into the sound structure of French, both at the articulatory and the systemic levels. This will provide the basis for analytical and practical approaches to questions of pronunciation. A variety of options will ensure that classwork and assignments take advantage of students' individual backgrounds (e.g., French as a first or second language) and particular interests (e.g., teaching applications). The primary focus on Standard French will be complemented by comparisons among different regional varieties of French.

321.1(.2) Writing In French

Prerequisite: FRE 250.0 or equivalent, or permission of instructor. A course for students beyond the intermediate level who wish to improve their command of French by means of vocabulary enrichment, reading of non-literary texts and a vanety of writing activities. Knowledge of intermediate level grammar is assumed.

325.1(.2) French Speech Strategies: Managing

Prerequisite: FRE 250.0 or permission of instructor.

Classroom practice in developing strategies for use in conversations. By means of application activities, students learn how to initiate, maintain and close conversations, how to communicate and respond to needs, feelings, opinions, plans, etc. Recommended for students interested in perfecting their communicative skills in spoken French.

331.1(.2) French Review Grammar

Prerequisite: a university French course or permission of the Department.

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, and to those who intend to take FRE 430: Advanced French Grammar.

335.1(.2) French for Business

Prerequisite: FRE 250.0 or placement test.

In this course, 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

340.1(.2) Linguistic Study of French [LIN 341.1(.2)]

Prerequisite: FRE 250.0 or permission of Department.

The principles of linguistic analysis are introduced through a study

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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.

400.1(.2) French Speech Strategies: Perfecting Oral Skills Prerequisite: FRE 325.1(.2) or permission of instructor.

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. Students will participate in demonstrations, simulations, role-playing and problem-solving activities. Of particular interest to current or prospective teachers of French.

405.1(.2) Acadian Literature and Society

Prerequisite: French credit at 300 level or permission of instructor. 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.

410.1(.2) La France en Chansons

Prerequisite: FRE 300.0 or 310.0 or permission of instructor.

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.

412.1(.2) Literature and Society of French Canada Prerequisite: FRE 300.0 or FRE 301.0 or permission of Department.

This course provides an overview of French Canadian literature through a study of its major works. Various aspects of the cultural background are presented, including language, religion, music, film and art. The course also examines the historical evolution leading to the particular situation of present-day Quebec and that of French-speaking minority groups throughout Canada, through the analysis of literary works related to these themes.

416.1(.2) The Eighteenth Century

Prerequisite: FRE 300.0 or permission of Department.

A study of some of the major works of the eighteenth century with special emphasis given to *Les liaisons dangereuses* and the epistolary novel.

417.1(.2) The Romantic Period

Prerequisite: FRE 300.0 or permission of Department.

A study of some of the major works of the first half of the nineteenth century and the Romantic Movement which gave them form

418.1(.2) Realism and Naturalism

Prerequisite: FRE 300.0 or permission of Department.

A study of some of the major novels of the second half of the nineteenth century and the literary movements which gave them form.

419.0 French Canadian Novel

Prerequisite: FRE 300.0 or permission of instructor.

This course is intended to familianze students with the themes of

French Canadian literature through the study of the novel major novels from the period 1935 to the present will be stated detail. Other works will be examined through selected read and films. A major emphasis throughout will be to link the and settings of the novels to the socio-cultural background periods touched upon.

420.0 20th Century Novel

Prerequisite: FRE 300.0 or permission of instructor.

In the 20th century the novel has become the most proming not the most significant, literary genre. What is the secret cappeal for the modern sensitivity? The novels to be studied course, reflecting as they do both the depth and the diversities form, may provide an answer to this question.

421.0 Comparison of English and French Stylistics Prerequisite: FRE 301.0 or permission of instructor.

A course designed to increase the students' knowledge of beyond vocabulary and grammar and to enable them to grassimilarities and divergences between French and English 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.

422.1(.2) Introduction to Literary Analysis

Prerequisite: FRE 300.0 or permission of Department.

The purpose of this course is to provide an understanding of contemporary francophone literature and thought through exposure to theatre, short stories and filmscripts. The course serve as an introduction to formal critical analysis of literature will examine how a text functions at various levels: intellections and symbolic, and how the coherence of a literature variety literature assignment that the student to learn how to organize a literature assignment and written) and how to ground his/her thinking in the text.

426.1(.2) The French Short Story

Prerequisite: FRE 300.0 or permission of Department.

A study of a wide variety of modern short stories (19th and 20 centuries) illustrating the richness of this genre in francophoriliterature.

427.1(.2) Classical and Romantic French Theatre Prerequisite: FRE 300.0 or permission of Department.

The course is designed to examine what is specific to theatre literary genre. It focuses on some of the major works of Frence dramatic literature of the 17th to 19th centuries.

428.1(.2) Modern French Theatre

Prerequisite: FRE 300.0 or permission of Department.

The course is designed to examine what is specific to theatre a literary genre. It focuses on some of the major works of modes French dramatic literature (Theatre of the Absurd, Existential theatre, "Nouveau théâtre").

430.0 Advanced French Grammar

Prerequisite: FRE 301.0 and FRE 321.1(.2) or equivalent.

A systematic review of the main points of French grammar with 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,

431.1(.2) Directed Study I

A half-credit 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.

32.1(.2) Directed Study II

* half-credit course open to students who wish to study a special bithor or subject through tutorials, independent study and bearch. The availability of this course depends upon the eement of a particular faculty member who is prepared to sect the readings and study.

33.1(.2) Women's Literature in France WMS 433.1(.2)]

his course will provide an introduction to French women's writing phasizing the plurality of women's voices. The course contains historical overview of women's writing in France and an malysis of individual texts based on feminine perspectives.

34.1(.2) Women's Literature in French Canada WMS 434.1(.2)]

his course will provide an introduction to French Canadian men's writing emphasizing the plurality of women's voices. The purse contains an historical overview of women's writing in mench Canada and an analysis of individual texts based on minine perspectives.

440.1(.2) Canadian French: Sociolinguistic Perspectives LIN 440.1(.2)]

prequisite: a 300-level French course or permission of

This course will examine the major features which distinguish anadian French from European French, as well as the haracteristics of the different vaneties of French spoken in anada, in particular Acadian and Quebecois French. The lationship between language and society will be studied both as source of linguistic change and as a determining factor in prent speech patterns. Authentic recorded speech samples will se used to illustrate the various aspects studied and will also perve to familiarize students with the French language as spoken

Modern Languages - German (GER)

100.0 Introduction to the German Language

An introductory language course for those beginning the study of Berman. Basic linguistic structures will be studied with particular imphasis on the oral aspects.

200.0 Intermediate German

Prerequisite: GER 100.0 (or equivalent) with a minimum grade of

A continuation of elementary German, with emphasis on prammar, conversation, and reading.

302.0 Advanced Oral and Written German

Prerequisite: GER 200.0 or permission of instructor.

This course offers an opportunity to build upon and refine tudents' ability to comprehend and to communicate effectively in Berman. Slides, tapes and videos will be used to supplement course materials.

304.0 German Culture and Civilization

Readings, lectures, slide showings and films on the culture and ivilization of Germany. The course will move from the early tribal periods to the present, looking at political and social history, periods to the present, looking at political and social history, periods to the present, looking at political and social history, looking at looking in English.

Note: This course fulfils the Arts humanities 3c requirement but does not fulfil the 3b requirement.

305.0 Introduction to German Literature

Prerequisite: GER 200.0 or permission of instructor.

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 and at the same time expand the student's knowledge of the German language.

310.0 Modern German Literature

Prerequisite: GER 200.0 or permission of instructor.

A study of trends in modern German literature. Poetry, plays and short stories will be read and analyzed.

330.1(.2) Introduction to Business German I

Prerequisite: GER 100.0 (or equivalent) with a minimum grade of B, or permission of instructor.

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.

331.1(.2) Introduction to Business German II Prerequisite: GER 330.1(.2).

This is a continuation of the material introduced in GER 330.1(.2).

400.0 German Contemporary Literature

Prerequisite: GER 200.0 or permission of instructor.

A study of significant prose and dramatic works in German literature from 1945 to the present.

405.0 Independent Study

Prerequisite: permission of instructor.

This course is intended for advanced students who have a good working knowledge of German, a special interest in German literature and who want to study a particular author throughdirected, independent readings.

Classes 2 hrs. a week. 2 semesters.

Modern Languages - Italian (ITA)

100.0 Introduction to Italian

A course for students beginning the study of Italian. The basic structures of the language will be studied, with special emphasis on the spoken language.

Modern Languages - Japanese (JPN)

100.0 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.

200.0 Intermediate Japanese

Prerequisite: JPN 100.0 or equivalent.

A continuation of introductory Japanese, intended to develop proficiency in oral, aural and written Japanese within the context of Japanese culture.

Modern Languages - Spanish (SPA)

100.0 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.

200.0 Intermediate Spanish

Prerequisite: SPA 100.0 (or equivalent) with a minimum grade of C

A continuation of elementary Spanish, with emphasis on comprehension, conversation, reading and writing.

230.1(.2) Spanish for Business I

Prerequisite: SPA 100.0 with a minimum grade of B, or equivalent preparation in Spanish. Concurrent registration in SPA 200.0 is recommended

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.

231.1(.2) Spanish for Business II

Prerequisite: SPA 100.0 with a minimum grade of B. Concurrent registration in SPA 200.0 is recommended.

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.

302.0 Advanced Oral and Written Spanish

Prerequisite: a sound knowledge of Spanish grammar.

This course offers an opportunity to build upon and refine the student's ability to comprehend and to communicate effectively in Spanish. A variety of aural sources and written texts will be used.

304.1(.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, the role of women, religion, the work of creative artists, national sovereignty, and revolution. This course contributes to satisfying the Faculty of Arts humanities 3c requirement but does not fulfil the 3b requirement.

305.1(.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 geographi of Spain; the Spanish encounter of the New World; stereotypes 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 modem urban life; and the image of Spain today. This course fulfils the Faculty of Arts humanities 3c requirement but does not fulfil the 3b requirement

402.0 Contemporary Latin-American Literature

Prerequisite: a 300-level course in Spanish or equivalent. Open major students only.

The course examines a selection of the principal literary movements and works in 19th and 20th century Spanish American literature. In the first term, attention is directed to Romanticism, gauchesque literature, and the cultivation of the short story and of the novel. The beginnings of Modemism and the poetic activity of the 20th century are explored during the second term.

405.0 20th Century Spanish Literature

Prerequisite: permission of instructor.

An examination of the poetry, drama, and novel of 20th century Spain.

Texts: Readings from Lorca, Laforet, Cela, Arrabal and other writers.

423.1(.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 organial the program of studies.

Tutorial 3 hrs. a week. 1 semester.

424.1(.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 organial the program of studies.

Tutorial 3 hrs. a week. 1 semester.

Philosophy (PHI)

Chairperson, Associate Professor Professor, Undergraduate Advisor Professor, Graduate Officer Associate Professor **Assistant Professors**

Professor Emeritii

S. Crooks W. Grennan S. Wein

P. March R. Ansell, J. Blair,

J. MacKinnon,

M. Mercer

R. Beis.

A. Monahan.

W.A. Stewart, S.J.

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 will 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 fumishes 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

blosophy places a premium on precision of thought and pression, it provides an excellent background for a career in malism and publishing, policy-making, education, and unselling. Philosophy graduates also attest to the dispensable value of their education to their careers in research and planning, technical services, management and medicine.

The Department of Philosophy offers a full range of andergraduate courses. Students may obtain an honors degree in milosophy, be a philosophy major, or do a minor in philosophy. students should consult with the undergraduate advisor to prange a selection of courses that fits their individual interests and meets Department requirements. In addition, the Department mers a pre-law option and a master's degree.

PHI 200.0 is the only philosophy course that satisfies regulation the Faculty of Arts degree requirements.

Major in Philosophy

budents majoring in philosophy must complete at least six (6.0) medits in philosophy. At least four (4.0) of these must be above the 200 level, and of these four, at least two (2.0) credits must be move the 300 level.

Major in Philosophy: Pre-Law

budents majoring in philosophy and taking the pre-law option must complete all the requirements for a major in philosophy. It is scommended that they take the following courses:

PHI 200.0 Basic Logic

PHI 302.0 Ethics

PHI 332.1(.2) Ethics and the Law

PHI 333.1(.2) Philosophy of Law

Double Major

A student may major in philosophy and another subject. The dent normally completes six (6.0) credits in philosophy and phould consult the undergraduate advisor.

Honors Program

To qualify for the degree of Bachelor of Arts (Honors) in inlosophy, a student must: (a) meet the general requirements of the Faculty of Arts set out in regulations 11-17, Section 3 of this Palendar; (b) meet the requirements for a major in philosophy; and (c) obtain four (4.0) additional credits in philosophy above the 300 level. The Chairperson or the undergraduate advisor will essist the student in selecting these courses.

Minor in Philosophy

A minor in philosophy requires a minimum of four (4.0) credits, at least two (2.0) of which must be above the 200 level.

6. 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.

200.0 Basic Logic

An introduction to essential principles of reasoning and critical hinking, 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 heories, 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.

201.0 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.

222.0 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.

244.1(.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.

245.1(.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.

255.1(.2) Asian Philosophy [REL 255.1(.2)]

300.0 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.

302.0 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 why ultimately ought I 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?

305.1(.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.

310.0 (610.0) Political Philosophy

Prerequisite: a philosophy or political science course.

An examination of some philosophical concepts basic to any philosophy of politics: society and social obligations, the common good, the individual and individual rights, law, freedom, tolerance and repression, popular consent, sovereignty. The course will investigate the relationship, if any, between ethics and philosophy of politics and, with reference to contemporary experience of differing state systems, raise the question of whether the expression "making a better world" has any meaning.

317.1(.2) Philosophy of Economics

This course examines the basic assumptions on which economic theory rests, asks whether economics is a science, and explores the extent to which economic analysis can be used in other areas (for example, in medicine and the law). No knowledge of economics is presupposed or required.

325.1(.2) Ethical Issues in International Development [IDS 325.1(.2)]

This course will examine the ethical problems raised by international development. Among the issues addressed will be 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 the receipt of aid, the rights of those receiving development assistance to preserve and protect their culture, and what justification can be found for the various schools of thought on how to organize development programs.

326.0 (626.0) Philosophy of Mind

Prerequisite: an introductory course in philosophy and/or psychology would be helpful.

This course examines modem and current theories about the nature of mind. Beginning with Cartesian dualism, the course proceeds to examine various materialist theories, functionalist theories, epiphenomenalism, etc. Finally, the course examines contemporary theories about the nature of consciousness. Throughout, the student will be encouraged to examine critically the folk theory of mind and to become aware of its shortcomings

331.1(.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.

332.1(.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.

333.1(.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.

345.1(.2) [645.1(.2)] Greek Philosophy: The Presocratics and Plato

A brief examination of the origins of ancient Greek philosophy in the works of speculative cosmologists and the subsequent shift in interest from nature to humanity as initiated by Socrates and developed in the works of Plato. Most of the course will consist of reading Plato's major dialogues, including his Republic.

348.1(.2) [646.1(.2)] Greek Philosophy: Aristotle and The

Precequisite: PHI 345.1(.2) or permission of instructor.

A study of Aristotle's views (focusing on topics in metaphysics, psychology, knowledge and ethics), together with a brief examination of several Hellenistic philosophers.

348.1(.2) [648.1(.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.

349.1(.2) [649.1(.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.

358.1(.2) Philosophy of Human Nature Prerequisite: one (1.0) credit in Philosophy.

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.

360.0 Philosophy in Literature

This course involves critically assessing the philosophical implications of selected literary works. It should interest students

who are curious about the philosophical significance of literatural Works that may be discussed include: Shakespeare's King Lear, Marlowe's Dr. Faustus Melville's Billy Bud, Conrad's Lord Jim, Walker Percy's The Moviegoer, Torn 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?

368.1(.2) [668.1(.2)] Medical Ethics

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 arguments.

380.0 (680.0) Philosophical Issues in Feminism [WMS 380.0]

Prerequisite: at least one (1.0) credit in philosophy other than PH 200.0.

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.

400.0 Metaphysics

Prerequisite: PHI 201.0 or any other philosophy credit (1.0) at the 300 level or above.

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.

402.1(.2) [602.1(.2)] Philosophy of Language: Meaning

403.1(.2) [603.1(.2)] Philosophy of Language: Speech Acts Prerequisite: 1.0 philosophy credit at the 300 level.

A detailed study of the speech-act theory of language use with additional attention given to such notions as reference and predication.

406.0 (606.0) Theory of Knowledge

Prerequisite: 1.0 philosophy credit.

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, including the ethics of belief.

407.1(.2) [607.1(.2)] Philosophy of Perception Prerequisite: 1.0 philosophy credit above the 200 level.

This course examines various theories of perception and related philosophical issues. Selected issues may include: perception as a source of knowledge or skepticism, indirect vs. direct perception, innate perceptual mechanisms, perceptual cognition and consciousness.

414.0 Intermediate Logic

Prerequisite: PHI 200.0 or 315.0 (which may be taken concurrently).

course continues and develops the work of PHI 200.0. It less students of all faculties opportunities for further growth in soning skills, in part through supervised practice in the logical praisal of extracts from a variety of important writings. Some anches of logic are developed beyond the level of PHI 200.0. complete predicate calculus (with identity) is applied to suments of ordinary English. Inductive logic, and practically inficant areas of logical theory, are developed considerably. Sentific method and the general methods of some other ciplines are analyzed in some depth.

45.0 Mathematical Logic

Ferequisite: one of PHI 200.0, a course in mathematics, or a purse in computing science.

systematic introduction for students of philosophy, athematics or computing science to the most fundamental pics of mathematical logic, proceeding from the propositional aculus, through the predicate calculus, and Boolean algebra, to be theory (as a 'foundation' for mathematics). Emphasis is acced on the development of facility and rigour in the use of atural deductive and axiomatic methods, and in the use of amantic tableaux and trees. There is an examination of such atlagical topics as consistency, completeness and decidability. Some attention is also paid to practical applications, such as a front is simplification, computerization of problem solving and smalization of theory.

#16.0 (616.0) Advanced Logic and Methodology

440.1(.2) [640.1(.2)] Medieval Philosophy: Early Period to 12th Century

\$41.1(.2) [641.1(.2)] Medieval Philosophy: 13th, 14th Benturies

442.1(.2) [642.1(.2)] Early Modern Philosophy: The Rationalists

Prerequisite: 1.0 credit from the following courses: PHI 201.0, 244.1(.2), 245.1(.2), 345.1(.2), and 346.1(.2).

a critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Descartes, lalebranche, Spinoza and Leibniz are among the philosophers pically studied.

443.1(.2) [643.1(.2)] Early Modern Philosophy: The Empiricists

Pre requisite: 1.0 credit from the following courses: PHI 201.0, 244.1(.2), 245.1(.2), 345.1(.2), and 346.1(.2).

A critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Hobbes, Locke, Perkeley and Hume are among the philosophers typically studied.

444.1(.2) [644.1(.2)] Later Modern Philosophy: Kant Prerequisite: 1.0 philosophy credit.

A lecture and seminar course on Kant's theory of knowledge.

447.1(.2) [647.1(.2)] Later Modern Philosophy: The German Idealists

448.1(.2) [652.1(.2)] Philosophy of Science Prerequisite: PHI 200.0.

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.

450.0 (650.0) Phenomenology

Prerequisite: 1.0 philosophy credit.

A study of the origins, development, concepts, method and

influence of the phenomenological movement in contemporary philosophy.

Texts: Sections from Husserl, Heidegger, Sartre, Merleau-Ponty.

454.1(.2) [654.1(.2)] Philosophy of History

455.1(.2) [655.1(.2)] Existentialism: The 19th Century: Kierkegaard, Nietzsche

456.1(.2) [656.1(.2)] Existentialism: The 20th Century: Jaspers, Marcel, Camus, Sartre

465.0 (665.0) Analytic Philosophy Prerequisite: 1.0 philosophy credit.

A lecture and seminar course that examines the origins, expressions, and significance of the contemporary analytic movement in philosophy.

471.1(.2) [671.1(.2)] Meta-ethics

Prerequisite: 1.0 philosophy credit above the 200 level.

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'.

472.1(.2) [672.1(.2)] Foundation of Ethics
Prerequisite: 1.0 philosophy credit above the 200 level.

The course will involve the study of the nature of moral judgements and the logic of moral reasoning.

479.0 (679.0) Senior SeminarPrerequisite: permission of Department.

The subject matter of the seminars is determined by consultation between instructor and students.

491.0-495.0; 496.1(.2)-499.1(.2); 685.1(.2)-689.1(.2); 690.0-695.0 Reading Courses in Philosophy

Prerequisite: consent of instructor and permission of chairperson.

The subject matter of this course will be determined by the student in consultation with the instructor.

501.1(.2) [601.1(.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.

502.1(.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.

525.1(.2) [625.1(.2)] International Justice [IDS 525.1(.2)625.1(.2)]

Prerequisite: honors or graduate standing in Philosophy or International Development Studies.

This course will consider how major theories of justice such as Kantlan constructivism, economic contractarianism, and utilitarianism deal with important issues in international justice such as the law of peoples, distributive justice, human rights, and democratization.

697.0 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.

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Political Science (POL)

Chairperson, Assistant Professor Professor

Associate Professors

Assistant Professors

Adjunct Professors Professor Emeritus L. Preyra

R. Landes

T. Arseneau, E. Keeble,

D. Naulls

G. Chauvin,

A. Dobrowolsky, M. Doucet

B. Misawa, A. Obuekwe

E. McBride

Departmental Policy for Majors

Students who intend to complete a major concentration In political science must take a minimum of seven (7.0) credits in political science, including a maximum of one (1.0) credit at the 200-level. The department recommends (but does not require) that a student take POL 304.0; POL 401.0; 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 500-level seminar.

Departmental Policy for Honors

The objective of the Bachelor of Arts honors 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 Honors program. Forms are available from the Registrar's/Records Office. After admitting students to the Honors program, the Department, in consultation with the Honors applicants, will assign Honors committees, as well as approving both the major and minor areas of concentration. Students should normally complete the formalities for admission to the political science Honors program not later than December of Year 3.

In order to be considered for admission to the political science Honors program, a student must normally have a cumulative quality 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 Honors in Political Science

Students must meet the Faculty of Arts requirements for the Honors Bachelor of Arts degree.

In order to continue in, and graduate with honors, students must achieve and maintain a yearly and cumulative quality point average of 3.33 in both political science and non-political science courses.

Honors students must complete no fewer than twelve (12.0) credits in political science, of which at least eight (8.0) must be at the 300 level or above. It is expected that not fewer than four (4.0) of these credits will be at or above the 400 level.

The Political Science Department offers courses in four major subfields of the discipline: Canadian politics, comparative politics, international relations, and political thought. Honors students are required to declare one of these subfields as their major area of study and a second subfield as their minor area of concentration.

In addition, it is recommended that Honors students complete POL 304.0 (Canadian Government and Politics) and POL 401.0 (Scope and Methods), and at least one (1.0) credit in each of the four subfields of political science.

Honors students must receive credit for at least one (1.0) political science seminar course at the 500 level, in addition to POL 500.0 (Honors Reading Course).

Honors students must submit an honors essay in each of their major and minor areas of concentration by March 15 of their Honors year. The Honors Committee and Department must approve both papers before a degree is recommended.

An Honors student is encouraged to register for five (5.0) credits in the honors year.

Departmental Policy for Minors

Students who intend to take a minor in political science must complete at least four (4.0) credits in political science, Including a maximum of one (1.0) credit at the 200-level. The Department recommends (but does not require) that a student take POL 304.0. Additional requirements are found in the Faculty of Arts regulation 8 in Section 3 of this Calendar.

NOTE: - Students may only count one (1.0) credit at the 200-level for their major or minor requirements.

200.0 Introduction to Political Science

An introduction to the scope and methods of political science. The nature of the state will be examined, as well as the various purposes advanced for its existence. The student will be introduced to aspects of government, political parties, international relations and political philosophies.

210.1(.2) Political Ideologies

An introduction to political ideologies (for example, liberalism, conservatism, socialism, fascism, communism, feminism) which shape modem political life. Particular attention will be given to the interplay between political ideologies and political regimes, as well as an examination of new ideologies and their impact on modem political life.

220.1(.2) Political Analysis

An introduction to the approaches and techniques used in understanding political behavior. Particular attention will be given to behavioral, institutional, and critical perspectives, as well as debates over the meaning and relevance of various approaches to political analysis and to the question of the meaning of political behaviour.

230.1(.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.

240.1(.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.

302.0 Democratic Government

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of fundamental concepts in democratic theory. Special emphasis is placed on the relationship between theory and practice. Selected countries are comparatively studied to identify and explain similarities and differences in the practice of democratic politics.

304.0 Canadian Government and Politics

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A study of Canadian government and society, encompassing an analysis of political principles, institutions and decision-making processes.

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185.0 International Relations

requisite: one (1.0) credit at the 200-level or permission of

course is an introduction to key concepts in the study of pobal politics. It will explore the historical foundations of interpeter relations with an emphasis on the rise of the nation-state, and the Cold War era. The course will also critically examine abmative approaches (such as transnationalism, dependency peory, and post-modernism) in the study of global politics.

86.1(.2) Comparative European Politics

requisite: one (1.0) credit at the 200-level or permission of baructor.

study of the institutions and politics of some of the major lational political systems of Europe.

307.0 Provincial Government and Politics Perequisite: POL 200.0 or permission of instructor.

analysis of the dynamics and structure of provincial powernment in Canada, with special reference to Nova Scotia. Provincial political parties, voting behavior, legislatures, preaucracies and policy formulation constitute the core of this pourse. Inter-provincial and federal-provincial relations are paramined, with particular reference to Maritime Union, Quebec, and the Western provinces.

\$10.0 Government and the Media

Ferequisite: one (1.0) credit at the 200-level or permission of structor.

an examination of the influence of the media, and the impact of povernment policy, especially as set out in federal and provincial agislation, on the growth and operation of the mass media in canada. Particular attention will be given to the continuing tebate over television and radio regulation and ownership, straints on film and the press, and issues raised by new echnology.

B12.0 Government and Politics in the United States Prerequisite: one (1.0) credit at the 200-level or permission of bstructor.

An analysis of the American political system, its political culture, locial base, constitutional order, governmental structure and policymaking processes. Special emphasis is placed on the party stem, voting behavior, and the Presidency.

314.1(.2) Development Practice: Politics of the Developing Areas

Prerequisite: one (1.0) credit at the 200-level.

An examination of political development in selected states in Isia, Africa, Latin America, or the Middle East.

315.0 Canadian Foreign Policy

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of Canadian foreign policy, with a focus on the content of that policy and on the nature of the decision-making process itself.

316.1(.2) Politics in the European Union

Prerequisite: one (1.0) credit at the 200-level or permission of Instructor.

A study of the institutions and policy-making processes of the European Union.

317.0 Constitutional Theory

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

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.

320.0 Local and Urban Government and Politics Prerequisite: POL 200.0 or permission of instructor.

Using historical, comparative, and structural approaches, analysis in the first semester is concerned largely with municipal government – especially its development in Canada, intergovernmental relations, the concept of autonomy, and structures of decision-making. The second semester is devoted to an examination of urbanization of the political problems to which it gives rise – problems of structural adequacy and development and renewal.

321.1(.2) International Organization

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

This course studies international organizations as components of global governance. It will examine issues such as human and national security, arms control, global cooperation, and economic development. In order to highlight the complexity and reality of international decision-making, the course may simulate the workings of a United Nations Committee or other international organization.

322.1(.2) Politics of International Trade

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the main themes and issues in the international political economy, with an emphasis on the relations between and among developed and developing states.

327.0 Government and Politics in the Middle East Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A comparative study of the governments and politics of selected Middle Eastern countries, with an emphasis on the analysis of the fundamental political and socio-economic changes that are occurring in the area and attempting to shape its modernizing page.

330.0 Introduction to Public Administration

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

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 modem state will be assessed and a sampling of recent organizational theories will be undertaken.

335.0 History of Political Thought

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A historical survey of the most important political ideas from the classical period of the Golden Age of Athens to this century. The interaction between socio-political conditions and ideas will be stressed.

348.0 Comparative Political Behaviour

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

From a comparative perspective, a study of the nature of voting and electoral behavior in Canada, the United States, Britain or selected other countries.

401.0 Scope and Methods of Political Science

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An introduction to the concerns and methodologies of modem political science. Included will be a discussion of theories and approaches developed by the empirical school of political scientists.

418.0 International Law

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

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.

419.0 Comparative Constitutional Law

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A comparative analysis of constitutional systems, this course focuses upon the theory and exercise of judicial review, in the context of either Canadian and American constitutional law, European, or other constitutional practice. It combines lectures, collateral readings, and the case method.

425.0 Spying and International Politics

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An analysis of the development, role, techniques, and impact of spying on the conduct of international relations.

440.0 Canadian-American Relations Since World War II Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

This course focuses on an analysis of Canadian-American relations since 1945. The course examines different theoretical approaches to the relationship, as well as a variety of case studies to evidence the nature and extent of Canada-U.S. relations both in the bilateral context and in the multilateral context.

445.0 Introduction to Public Policy

Prerequisite: one (1.0) credit at the 200-level or permission of instruction

A critical analysis of public policy formation, the content of public policies, and impact upon society.

446.0 Comparative Political Parties

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A comparative analysis of the changing structures and functions of selected parties and party systems.

447.1(.2) Canadian Political Parties

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

The purpose of this course is to identify and explain continuity or change in Canadian political party beliefs and behavior. 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.

450.1(.2) Women in Canadian Politics

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

This course is designed to introduce students to the topic of women's participation in Canadian politics. The course is divided into three sections beginning with a historical overview of

women's political gains in Canada followed by an introduction to feminist theory, and an examination of the role of women in par politics.

455.0 Canadian Defence Policy

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

This course examines the evolution of Canadian defence policy and the ideas, structures, and processes which shape the formulation of defence policy in Canada. Particular emphasis when the placed on new issues on the national security agenda and how Canada ought to deal with them.

457.0 Politics and Government in Ireland [IRS 457.0]

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

A survey of Irish history will lead to more detailed consideration British administration in Ireland, and of government in the Republic of Ireland and in Northern Ireland.

460.1(.2) Classical Political Thought

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the political ideas of the Greeks and Romand of the Classical period. Plato, Aristotle, Thucydides, Polybius, Cicero and others will be studied.

461.1(.2) Political Thought of the Renaissance and Reformation

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the political ideas of the Renaissance period Europe. Dante, Machiavelli, More, Luther, Calvin and the Fren religious pamphletists will be examined.

462.1(.2) Early Modern Political Thought

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the political ideas of the seventeenth and eighteenth centuries. Hobbes, Locke, Montesquieu, Rousseau Burke and Hume will be studied.

463.1(.2) Modern Political Thought

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the modern liberal and socialist traditions. Bentham, J. S. Mill, T. H. Green, Karl Marx, Lenin and some of their respective disciples will be studied.

465.0 Theories of the State

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of contemporary theories concerning the natural and role of the state.

470.0 Empirical Democratic Theory

Prerequisite: one (1.0) credit at the 200-level or permission of instructor.

An examination of the findings and impact of modem 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 politic science research.

490.0 Directed Reading in Political Science

Prerequisite: permission of Department.

is course is organized by an individual faculty member in beement with the department as a whole, and is designed to plement or provide an alternative to regular courses in bitical science, according to the special needs and interests of lividual students and faculty members.

35.1(.2) - 499.1(.2) Selected Topics In Political Science requisite: one (1.0) credit at the 200-level or permission of bructor.

be subject matter of particular half-credit courses will be mounced from time to time by the Department. These courses analyze specialized areas of political science not normally wered in our regular Departmental offerings.

20.0 Honors Reading Course

requisite: restricted to honors students in political science.

bough regular meetings with their Honors Committee, students use this course to prepare an honors essay in each of their prior and minor areas of concentration.

50.0 Seminar in the History of Political Thought Percuisite: permission of instructor.

Intensive study of major trends in political thought, ancient and modern, with special attention to contemporary political betrines and ideologies, their transformation and interrelation in a course of history and their interrelation with social and biftical conditions.

lasses 2 hrs. a week. 2 semesters.

51.0 Canadian Government Seminar Perequisite: permission of instructor.

manalysis of selected aspects of Canadian politics and examment. Topics studied may include: political culture, herest groups, political parties, voting behavior, Parliamentarians, and bureaucracy. This seminar emphasizes student presentations and group discussions.

Classes 2 hrs. a week. 2 semesters.

552.0 Seminar in Comparative Government 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.

Classes 2 hrs. a week. 2 semesters.

553.0 International Studies Seminar Prerequisite: permission of instructor.

A seminar on the contemporary interaction of the major powers, with special consideration of selected world problems, tensions, trends and developments.

Classes 2 hrs. a week. 2 semesters.

554.0 Seminar in Political Behavior Prerequisite: permission of instructor.

An analysis of the behavioral movement in political science. Particular attention will be given to the problems of political strategy and political conflict.

Classes 2 hrs. a week. 2 semesters.

555.0 Seminar in Public Law 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.

Classes 2 hrs. a week. 2 semesters.

Psychology (PSY)

airperson, Professor

sociate Professors

sistant Professors

Sunct Professors

ofessor Emeritus

v. Catano

D. Bruce, J. Darley,

K. Hill, R. Konopasky,

I. Lenzer

P. Street, B. Vulcano

J. Cameron, A. Day,

S. Smith, V. Stinson

L. Methot, S. Newsome

J. Chadwick-Jones

Psychology Department offers a broad range of courses and ograms designed to meet the needs of students from a variety backgrounds and with varying degrees of interest in sychology. The Department offers an area of concentration for egeneral Bachelor of Science degree, a major and honors for both the Bachelor of Arts and Bachelor of Science degrees, and a cogram of study leading to the Master of Science degree in policy psychology.

The Undergraduate Program in Psychology

he psychology undergraduate curriculum consists mainly of himster courses worth one half (0.5) credits which are grouped to three broad categories—Group A, Group B, and Group C. burses in Group A are representative of psychology as a natural bince and offer instruction in the areas of (1) brain and havior, (2) biology, evolution, and behavior, and (3) cognition. burses in Group B are representative of psychology as a social behavior, and (3) personality and psychopathology. burses in Group C are representative of psychology in general and include PSY 200.1(.2), and statistics and research methods burses, among others.

Psychology at the 200 Level

Students who wish to major in psychology should begin by selecting foundation courses from PSY 210.1(.2), 220.1(.2), 230.1(.2), 240.1(.2), 250.1(.2), and 260.1(.2). Although recommended for majors, these 200-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 300-level courses. Additionally, students in the Faculty of Arts should be mindful of the need to complete at least eight (8.0) credits at the 300 level or higher.

PSY 200.1(.2) is NOT a prerequisite for other 200-level psychology courses and is not intended for those who plan to major in psychology. PSY 200.1(.2) should be taken only by those students who are choosing psychology as an elective subject. However, Arts and Science students who have taken PSY 200.1(.2) and who then wish to major in psychology or to take other 200-level courses may do so without losing credit for PSY 200.1(.2).

Psychology as an Elective Subject

Students who wish to take psychology as an elective should begin with PSY 200.1(.2), Introduction to Psychology, which is a broad survey of the discipline. Completion of PSY 200.1(.2) will permit enrolment in selected psychology courses at the 300 level. 400-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 400-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 one (1.0) credit from courses in Group A and at least one (1.0) credit from courses in Group B; (b) at least two (2.0) credits at the 300 level or higher; and (c) an additional number of credits 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 credits required is four (4.0); in the Bachelor of Science degree program, five (5.0).

Psychology as an Area of Concentration

Students taking a general Bachelor of Science degree may elect an area of concentration in psychology. The requirements are: (1) five (5.0) but not more than seven (7.0) credits in psychology; (2) at least one (1.0) credit from courses in Group A and one (1.0) credit from courses in Group B; and (3) at least one-half (0.5) credits from 400-level psychology courses. For students seeking a concentration in psychology, PSY 350.1(.2) is a prerequisite for all 400-level psychology courses.

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) seven (7.0) but not more than eight and one-half (8.5) credits in psychology; (2) at least two (2.0) credits from courses in Group A and two (2.0) credits from courses in Group B; and (3) at least one and one-half (1.5) credits from 400-level psychology courses. For students majoring in psychology, PSY 350.1(.2) is a prerequisite for all 400-level psychology courses. Students in the Faculty of Arts 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 requirements for the major--Arts requirement 7 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-Science requirement 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.

Psychology as an Advanced Major

The Department of Psychology offers an advanced major for Bachelor of Arts students. Students who enrol in this program must meet all the requirements for the advanced major program which have been established by the Faculty of Arts. They must also meet all the requirements for the major in Psychology outlined above, except that they may take more than eight and one-half (8.5) credits in psychology and must complete at least three (3.0) credits at the 400-level.

Psychology as an Honors Program

The Psychology Department offers honors study leading to a Bachelor of Arts (Honors) degree, a Bachelor of Science (Honors) degree, and a Certificate of Honors Standing (Honors Equivalency)—academic regulation 26. The honors 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 honors 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 3.0 credits in psychology, including PSY 350.1(.2). [It is recommended that students complete PSY 401.1(.2) as well before applying.] These requirements are minimum standards only. Because the Department has limited resources for offering the honors program, some students who meet the minimum standards may have to be denied admission.

The Department reviews applications for admission to honors 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 honors 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 10.0 credits in psychology, including at least 2.0 credits from courses in Group A and 2.0 credits from courses in Group B. Of the minimum 10.0 credits, at least 6.0 must be at the 400 level of above, including PSY 400.1(.2) and 401.1(.2). Honors students who wish to enrol in PSY 549.0, Honors Thesis, must first security the consent of a member of the Department to supervise their work and then complete an Application for Directed Study forms available from the Registrar's Office. To determine a program of study that is appropriate to their future plans, honors students should consult with the Chairperson of the Department.

The Combined Major in Psychology and Certificate in Humal Resource Management [Psychology/Management Option (HRP)]

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 enroll this program are required to take eight (8.0) credits as follows:

a. The following four (4.0) credits:-PSY 327.1(.2) MGT 281.1(.2) PSY 426.1(.2) MGT 385.1(.2) PSY 427.1(.2) MGT 386.1(.2)

PSY 428.1(.2) MGT 485.1(.2)

b. Two (2.0) credits from the following Psychology Electives:

PSY 309.1(.2) PSY 432.1(.2) PSY 499.1(.2) PSY 441.1(.2) PSY 445.1(.2) PSY 425.1(.2) PSY 446.1(.2)

*credit as an elective in the HRM/PSY 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/PSY electives.

c. Two (2.0) credits from the following Business Electives:-

ACC 241.1(.2) MGT 388.1(.2) ACC 242.1(.2) MGT 391.1(.2) CML 201.1(.2) MGT 481.1(.2) COM 293.1(.2) MGT 484.1(.2) COM 394.1(.2) MGT 488.1(.2) COM 475.1(.2) MGT 493.1(.2) ECO 201.1(.2) MGT 496.1(.2) ECO 202.1(.2) MGT 497.1(.2) ECO 339.1(2) MGT 499.1(.2) ECO 340.1(.2) MSC 225.1(.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 Graduate Program in Psychology

The Department offers a Master of Science degree in applied psychology with concentrations in clinical* and Industrial/organizational psychology. Students are admitted with full-time or part-time status. Applications must be received by February 1. First year students who wish to change their status after they have received notice of their admission must make this request to the Chairperson before June 1. Change in status must be approved by the Department. Requirements for the Master of Science program for full-time and part-time status students are

tailed elsewhere in this Calendar. Undergraduate students who she to gain admittance to the Master of Science program should the that a normal entrance requirement is an honors in schology degree or its equivalent. Undergraduates should also tware that there are a limited number of placements available the program and that competition for these positions is the mely high. Additional information on the program may be stained by contacting the Graduate Program Coordinator in the suchology Department.

-Admission to this Clinical Program has been suspended. -ease contact the Graduate Program Coordinator or the -eairperson of the Department for further information.

and .1(.2) Introduction to Psychology (Group C)

buryey of the science and application of psychology.

totie: This course is recommended for students not planning a pajor in psychology. It may be used to satisfy one quarter culty of Arts' regulation

210.1(.2) Mind and Brain (Group A)

To by the biological foundations of attributes of the brain buding consciousness, memory, language, and perception.

20.1(.2) Evolutionary Psychology (Group A)

n analysis of the biological events that shape human behavior.

putcs include evolution and social, sexual, and aggressive havior.

230.1(.2) Memory (Group A)

* review of research and theory in memory.

235.1(.2) Learning (Group A)

Review of the fundamental principles of learning and their applications to human behaviour.

240.1(.2) Human Development (Group B) examination of theories of human development across the life pan.

250.1(.2) Social Behavior (Group B)
An introduction to the study of social behavior and to
antemporary theory and research in the field.

260.1(.2) Personality: Normal and Abnormal (Group B)

story, concepts, models and methods in personality theory and search.

307.1(.2) Biological Origins of Behavior (Group A) berequisite: 0.5 credits in psychology at the 200 level.

An examination of the evolutionary origins of language, parentchild relationships, courtship, mating, aggression, motivation, and motion.

309.1(.2) Human Factors and Performance (Group A) Perequisite: 0.5 credits in psychology at the 200 level.

An examination of human performance in technological environments including the design of tools, systems, and environments.

116.1(.2) Social Cognition and Emotion (Group B)
Pre:requisite: one of the following courses: PSY 240.1(.2),
250.1(.2), or 260.1(.2).

An examination of the social aspects of cognition and emotion. Popics will include attitudes and their formation, impression formation, attribution theory, social biases, decision making, and the relation of emotion to behavior.

320.1(.2) Psychology and Law (Group B)
Prerequisite: PSY 230.1(.2), PSY 235.1(.2), or 250.1(.2).

A review of empigical 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.

327.1(.2) Industrial/Organizational Psychology (Group B) Prerequisite: 0.5 credits in psychology at the 200 level.

Introduction to methods and problems in industrial/organizational psychology. Representative topics will be drawn from the area of organizational behavior, personnel psychology, human factors, and consumer behavior.

329.1(.2) Child Development (Group B)
Prerequisite: 0.5 credits in psychology at the 200 level.
A survey of physical, perceptual, cognitive, and social development of the child from infancy to preadolescence.

332.1(.2) Adolescent Development (Group B) Prerequisite: one of the following courses: PSY 240.1(.2), 250.1(.2), or 260.1(.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.

335.1(.2) Abnormal Psychology (Group B)
Prerequisite: PSY 260.1(.2) and 350.1(.2). [PSY 350.1(.2) may be taken concurrently.]

Description, origin, and intervention in specific psychological disorders.

347.1(.2) Longevity and Aging (Group B)
Prerequisite: 0.5 credits in psychology at the 200 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 genatrics.

348.1(.2) Gender Roles (Group B)
[WMS 348.1(.2)]
Prerequisite: one of the following courses: PSY 200.1(.2), 240.1(.2), 250.1(.2), or 260.1(.2).

An introduction to the psychological concept of gender as it relates to behavioral, emotional, and cognitive development. Theones as to the sources of gender differences and similanties will be reviewed and discussed in relation to the impact of gender roles on intimate relationships, family, work, and physical and mental health.

349.1(.2) Drugs and Behavior (Group A)
Prerequisite: 0.5 credits in psychology at the 200 level.

Effects of psychoactive drugs on normal and abnormal behavior and on consciousness. Explanations are in terms of brain functioning. Discussion of methods used in the study of drug effects on animals and humans.

350.1(.2) Psychological Statistics (Group C)
Prerequisite: MAT 207.1 (.2). Biology majors only may substitute BIO 308.1(.2) for MAT 207.1 (.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 3 hrs. a week. 1 semester.

355.1(.2) Cognitive Psychology (Group A) Prerequisite: one of the following courses: PSY 210.1(.2), 220.1(.2), 230.1(.2), or 235.1(.2). A survey of basic perceptual and cognitive processes including attention, sensation, perception, pattern recognition, learning, and memory.

360.1(.2) Applied Sport Psychology (Group B) Prerequisite: 0.5 credits in psychology at the 200 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.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

386.1(.2) Behavioral Analysis and Change (Group B) Prerequisite: PSY 235.1(.2) and 350.1(.2). [PSY 350.1(.2) may be taken concurrently.]

A review of the principles, procedures, and empirical and theoretical underpinnings of behavior modification.

389.1(.2) Psychology of Personal Adjustment (Group B) Prerequisite: PSY 235.1(.2), 240.1(.2), and 260.1(.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.

399.1(.2) Special Topics in Psychology (Group C) Prerequisite: 0.5 credits in psychology at the 200 level.

Courses on selected psychological topics.

400.1(.2) Research Methods in Psychology (Group C) Prerequisite: PSY 350.1(.2).

Introduction to empirical research methods and strategies used by psychologists. Both experimental and non-experimental methods will be covered.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

401.1(.2) Advanced Statistics (Group C)
Prerequisite: PSY 350.1(.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.

407.1(.2) Introduction to Ethology (Group A)
Prerequisite: PSY 350.1(.2) [or for non-majors, PSY 307.1(.2)].

Introductory study of the principles of early and modem ethology. Topics include instinct and learning, communication, navigation, and behavioral genetics.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

408.1(.2) Comparative Ethology (Group A) Prerequisite: PSY 407.1(.2).

Comparative examination of human and animal behavior, courtship, territoriality, and social and parental behavior.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

409.1(.2) Brain Foundations of Human Behavior (Group A) Prerequisite: PSY 210.1(.2) and 350.1(.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.

410.1(.2) Human Neuropsychology (Group A) Prerequisite: PSY 409.1(.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.

413.1(.2) Thinking and Reasoning (Group A)
Prerequisite: PSY 350.1(.2) and 355.1(.2). Completion of PSY
400.1(.2) and 401.1(.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.

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Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

414.1(.2) Environmental Cognition (Group A) Prerequisite: PSY 350.1(.2) and 355.1(.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.

417.1(.2) Interpersonal Relationships (Group B)
Prerequisite: PSY 350.1(.2) and one of the following courses:
PSY 240.1(.2), 250.1(.2), or 260.1(.2).

Intensive coverage of aspects of interpersonal behavior. Topical 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 behaviors and attitudes.

418.1(.2) Environmental Psychology (Group A) Prerequisite: PSY 350.1(.2).

The study of behavior in its relation to the environment. Topics include personal space, crowding, the city, architectural designeral behavior.

420.1(.2) Disabilities (Group A)

Prerequisite: PSY 210.1(.20) and PSY 350.1(.2); and one half (0.5) developmental course.

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.

421.1(.2) History of Psychology (Group C)
Prerequisite: 4.0 credits in psychology including PSY 350.1(.2),

An examination of the origins and development of modem psychology.

425.1(.2) The Psychology of Organizational Development (Group B)

Prerequisite: At least 0.5 credits at the 200 level and either PSY 327.1(.2) or MGT 383.1(.2).

An examination of strategies designed to improve organizational effectiveness using behavioral science knowledge. Attention will

devoted to understanding factors that influence the success of manizational change initiatives and the process of change.

26.1(.2) Personnel Training and Development (Group B) Perequisite: PSY 235.1(.2) and either PSY 327.1(.2) or MGT 3.1(.2)

mensive examination of topics related to training and systematic manizational development. Emphasis is on application of eychological concepts and principles of learning in the contexts meeds assessment, curriculum development, transfer of ing, and evaluation.

27.1(.2) Organizational Psychology (Group B) requisite: PSY 327.1(.2) and 350.1(.2).

betended coverage of topics in organizational behavior with an phasis on the application of psychological concepts to beliems encountered in work environments. Topics may include structure and climate of organizational environments, edership, communication, motivation, decision-making.

(28.1(.2) Personnel Psychology (Group B) rerequisite: PSY 327.1(.2) and 350.1(.2).

Extended coverage of topics in personnel psychology with an Imphasis on the application of psychological concepts to poblems encountered in work environments. Topics may include analysis, recruitment and selection, training and performance, performance evaluation, industrial relations, and occupational ealth and safety.

429.1(.2) Psychology and Religion: A Survey (Group B) REL 461.1(.2)1

rerequisite: 4.0 credits in psychology including PSY 350.1(.2), REL 201.0 or 202.0.

A survey of theory and research in the psychology of religion.

430.1(.2) Psychology and Religion: Application (Group B) REL 462.1(.2)]

Prerequisite: PSY 429.1(.2).

A psychological examination of the role of religion in coping.

431.1(.2) Development and Social Context (Group B) Prerequisite: PSY 350.1(.2) and one of the following courses: PSY 329.1(.2), 332.1(.2), or 347.1(.2).

The development of social relationships within the context of the mily and the community.

432.1(,2) Attitudes and Persuasion

Prerequisite: PSY 250.1(.2) and 350.1(.2) and one of PSY 16.1(.2), 320.1(.2), or 327.1(.2).

This course is designed to provide students with an introduction to attitude and persuasion research. Particular attention will be liven to reviewing the various theoretical perspectives that have been proposed as explanations for the psychological processes underlying persuasion.

434.1(.2) Personality (Group B)

Prerequisite: PSY 335.1(.2) and 350.1(.2).

Examination of selected theories of personality through intuitive, lational, historical, and empirical methods.

436.1(.2) Theories of Counselling and Psychotherapy (Group

Prerequisite: PSY 335.1(.2) and 350.1(.2).

A review of the theory, method, and practice in counselling and bsychotherapy.

441.1(.2) Psychological Measurement (Group B) Prerequisite: PSY 350.1(.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.

442.1(.2) Psychological Assessment (Group B) Prerequisite: PSY 260.1(.2) and 441.1(.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.

445.1(.2) Directed Research in Psychology (Group C) Prerequisite: 4.0 credits in psychology including PSY 350.1(.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.

446.1(.2) Seminar in Psychology (Group C) Prerequisite: 4.0 credits in psychology including PSY 350.1(.2).

A seminar for advanced students on specialty areas in psychology. Extensive reading, oral presentations, and written reports or projects will ordinarily be required.

450.1(.2) Behavior Problems of Children (Group B)

Prerequisite: PSY 329.1(.2) and 350.1(,2).

A review of emotional and behavioral problems exhibited by children, including a survey of classification systems, assessment, and treatment.

460.1(.2) Advanced Sport Psychology (Group B) Prerequisite: P\$Y 360.1(.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.

486.1(.2) Behavior Therapies (Group B) Prerequisite: PSY 386.1(.2).

A review of behavioristic orientations to therapy including operant, Pavlovian, Hullian, Wolpean, social learning theory, and cognitive behavior-modification approaches.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

489.1(.2) Psychology of Well-Being (Group B) Prerequisite: PSY 350.1(.2) and 389.1(.2).

A comprehensive series of presentations covering the application of psychological concepts and principles to personal growth and well-being. Topics include authenticity, self-concept, communication, relationships, support, creativity, leadership, modelling, optimal functioning, and happiness.

490.1(.2) Health Psychology (Group B) Prerequisite: PSY 489.1(.2).

An examination of the psychological factors involved in health, illness, and treatment. Topics include health research methods, health promotion, modification of health behaviors, stress, coping, social support, and personality.

497.1(.2) Community Psychology (Group B) Prerequisite: PSY 250.1(.2) and 350.1(.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.

549.0 Honors Thesis

Prerequisite: honors standing.

A research project in psychology that will serve as the basis for a written thesis. Honors 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.

601.0 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.

603.1(.2) Advanced Assessment Prerequisite: graduate standing.

A survey of classical and modem 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.

604.1(.2) Clinical Assessment Prerequisite: graduate standing.

A study of assessment procedures commonly used in clinical and counselling settings for planning and evaluating case management. Students will acquire skills in the administration and interpretation of selected instruments, and will practice integrating results in the form of psychological report writing.

Classes 3 hrs. and lab 3 hrs. a week. 1 semester.

605.1(.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.

606.1(.2) Neuropsychological Assessment Prerequisite: graduate standing.

Study of the most frequently used tests in the assessment of brain damage. Discussion of the validity of these tests for the different diagnoses of functional and organic disorders of patients encountered in neuropsychiatric settings.

Classes 3 hrs. and lab 3 hrs. a week, 1 semester.

610.1(.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.

615.1(.2) Social Skills and Mental Health Prerequisite: graduate standing.

The social skills training approach. The analysis of social behavior. Development and deficiency in social skills: a review of the evidence. Changing social behavior. Outcome studies of skills training: a review. Assessment and training. The training manual.

620.1(.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

625.1(.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.

640.1(.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.

650.1(.2) Community Psychology Prerequisite: graduate standing.

A survey of the function of professional psychology in the community. Study of the design, implementation, and evaluation of programs, review of epidemiological research, study of social service agencies and clinical settings, institutions, alternative delivery systems. The ethics and politics of the mental health enterprise.

655.1(.2) Counselling and Psychotherapy Prerequisite: graduate standing.

A study of short-term counselling and psychotherapy techniques
Emphasis will be placed on what the counsellor actually does.
Single case methods for evaluating process and outcome will be reviewed. Consideration will be given to contemporary issues concerning values and ethics.
Classes 3 hrs. and lab 3 hrs. a week, 1 semester.

660.1(.2) Behavior Therapies

Prerequisite: graduate standing.

Study and training in the application of the principles and technology of behavior modification to a variety of human

milems. Consideration will be given to biofeedback, modelling, ingency contracting, and token economies. Students will be acted to identify target behaviors and carry out modification edures. The results of projects will be reported in suitable for class presentation and discussion.

1(.2) Special Seminar: Topics requisite: graduate standing.

sentation of topics not covered in the regular graduate Liculum offered according to student interest and the Mability of qualified faculty. May be repeated for credit once.

30.1(.2) Psychological Disorders requisite: graduate standing.

ensive study of theory and research addressed to the

description, classification, etiology and development of psychopathology.

690.0 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.

695.0 Thesis

Prerequisite: graduate standing.

Experimental research or field study conducted under the supervision of an advisory committee.

Religious Studies (REL)

Pairperson, Professor sociate Professors sistant Professor ofessor Emeritus

P. Bowlby

S. Armstrong, A. Dalton

M. Abdul-Masih

E. Stiegman

The Religious Studies Department offers courses on the religious mension of human life. In fulfilling that task the curriculum lictudes courses in three areas:

Comparative Religion

The comparative study of religion includes courses on the major gious traditions of the world as well as courses which compare maracteristics of religious life across several religious traditions.

Thematic Studies in Religion

ematic courses are offered as a way to explore various sciplines and their approach to the study of religion or to engage a debate around a theme structured to include both religious and on-religious views. Such courses may examine a theme imparatively in order to show the views of different religious iditions or a theme may be presented in terms of a debate etween religious and non-religious understandings.

The Christian Tradition

By virtue of its charter and history, Saint Mary's University has a pecial responsibility to teach courses on Christianity. The Religious studies Department fulfils that purpose by offering a number of pourses on the Bible, on issues of debate within the Christian Pradition, and the formative role of Christianity in Western Culture and Tradition.

Students seeking an elective may take any Religious Studies course at the 200 or 300 level.

Degree Requirements

Religious Studies courses at the 200 or 300 level satisfy a humanities requirement in the Arts Faculty; free electives in the commerce Faculty and the two humanities requirements in the Faculty of Science.

A Minor in Religious Studies

A minor in Religious Studies may be completed by taking four (4.0) Religious Studies credits. Three (3.0) of the credits must be at the 00 level or above. An overall quality point average of 2.00 must be maintained in the four (4.0) credits. In a Religious Studies minor students must complete at least two (2.0) of the four (4.0) required courses at Saint Mary's.

A Major in Religious Studies

Students majoring in Religious Studies must fulfil the following requirements:

the equivalent of six and one-half (6.5) credits in the Department;

- one and one half (1.5) of the six and one-half (6.5) credits must be at the 400 level. (Normally, 400 level courses are supervised only by faculty in the Religious Studies Department. Students must have Departmental and course instructor approval to complete a 400 level requirement in a cross-listed course.);
- in addition to the one and one half (1.5) 400-level credits, majors must complete REL 480.1(.2) Advanced Seminar for Majors in Religious Studies and REL 481.1(.2) Theories and Methods in the Study of Religions;
- an overall minimum quality point average of 2.00 in the courses counted toward the major;
- at least one (1.0) credit from each of the three general areas in the Department: Comparative Religion, Thematic Studies in Religion, the Christian Tradition.
- while not required for the completion of the major, one (1.0) credit in a classical language (Hebrew, Greek, Latin, or an alternate acceptable to the Department) or in an Asian language acceptable to the Department, may be among the courses counted toward completion of the major in Religious Studies.

Advanced 400-Level Courses for Majors and Honors Students in Religious Studies

Most Religious Studies courses at the 300 level are also given a 400 number. The 400 number is to be used only by Religious Studies majors and honors students to indicate the courses in their program taken at an advanced level. Requirements for these 400-level advanced courses are approved by the Department and normally involve reading a supplementary bibliography and preparing more advanced writing assignments than are required of students taking courses at the 300 level. A student may not receive credit for a course at both the 300 and 400 levels.

Honors in Religious Studies

Religious Studies offers an honors program in conformity with the Faculty of Arts requirements for an honors degree. In addition to the requirements for the Religious Studies major an honors student must complete three and one half (3.5) credits at the 400 level; REL 480.1(.2) Advanced Seminar for Religious Studies Majors; 481.1(.2) Theories and Methods in the Study of Religions; at least one (1.0) credit in a classical language (Hebrew, Greek, Latin or another acceptable to the Department); and a Department Honors Seminar (590.0-595.0). An honors essay will be written in conjunction with the honors seminar.

Admission to an honors program normally requires Departmental approval no later than the beginning of Year 3. A minimum quality point average of 3.00 in Religious Studies courses is required for admission to, and continuation in, the honors program.

Student Counselling

Majors and honors students must have their Religious Studies courses approved by the Cheirperson 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:

- Students may also take elective courses at the 300 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.

Introductory Courses

201.0 The Religious Dimension of Human Life: Introduction to Religious Studies

There are many common life experiences (for instance, the quest for personal identity, the encounter with death, suffering, loneliness, sexuality, wonder, good and evil) which most men and women have sought to address in the context of an organized religion. In addition to studying these experiences which point toward the religious dimension in human life and the ways in which several religions have dealt with them, we shall also look at some secular approaches to the same experiences.

202.0 Introduction to Comparative Religion: When Great Religions Meet

The biblical faiths of Judaism and Christianity took shape against the background of other Near-Eastern religions. Zen Buddhism emerged out of the encounter between Chinese religious traditions and Indian Buddhism. After looking at various examples of meetings between religions, the course will examine how religions develop in the encounter with other traditions and how living religions interpret other faiths. These themes will form an introduction to comparative religion.

203.14.(2) Introduction to the Bible: Hebrew Scriptures A critical approach to the Bible, involving an inquiry into the cultural and historical context of biblical literature, the meaning and relevance of the Bible for today.

204.1(.2) Introduction to the Bible: New Testament A critical approach to the New Testament of the Bible, involving an inquiry into the cultural and historical context of biblical literature, the meaning and relevance of the Bible for today.

255.1(.2) Cross-listed as PHI 255.1(.2) Asian Philosophy

300 and 400-Level Courses

Courses at the 300 level are intended for students who are not majoring or honoring in Religious Studies; courses at the 400 level are intended for students officially majoring or honoring in Religious Studies.

301.1(.2) [401.1(.2)] Power and Weakness

All power may corrupt, but who wants to be powerless? This course will explore and contrast biblical and contemporary notions of power. Concepts of the nature and use of power in human experience are crucial for every religious and quasi-religious approach to life. In this course, special attention will be given to the ways in which biblical notions of power and weakness represent a reversal of more ordinary understandings.

302.1(.2) [402.1(.2)] Wisdom and Foolishness

No one likes to be thought a fool - still less to be one. This course will explore and contrast biblical and contemporary notions of foolishness. An understanding of where and how wisdom is to be found is central to most religious and quasi-religious approaches to life. In this course, special attention will be given to the ways in

which biblical notions of wisdom and foolishness represent a reversal of more ordinary understandings.

303.1(.2) [403.1(.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.

305.1(.2) [405.1(.2)] Women in Christian Scripture and Tradition [WMS 305.1(.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 roless 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?

306.1(.2) [406.1(.2)] Cross-listed as CLA 352.1(.2) Women in Antiquity I

307.1(.2) [407.1(.2)] Cross-listed as CLA 353.1(.2) Women in Antiquity II

309.0 (409.0) History of Israel [CLA 310.0]

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.

311.1(.2) [411.1(.2)] Jesus of Nazareth

Jesus of Nazareth: Did Jesus really exist? What did he teach? Www. 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?"

312.1(.2) [412.1(.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?

313.1(.2) Cross-listed as CLA 313.1(.2) Art in Late Antiquity and Europe to 14th Century

317.0 (417.0) Cross-listed as SOC 317.0 Sociology of Religion

319.1(.2) [419.1(.2)] God and Evil

What are we to make of evil? If God is both all-powerful and all-good, why is there evil in the world? Must there be evil in order for there to be good? Is there any way to make sense of evil? We will examine Christian and non-Christian approaches to the problem of evil as expressed in a variety of works of fiction and non-fiction.

323.1(.2) [423.1(.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 fundamenal 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.

325.1(.2) [425.1(.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 a variety of stories and myths from the literature of major world traditions. Critical examination of the myth and stories will involve both locating the myth or story in the religious context of a particular faith and the comparative analysis of major themes. Literary sources will be drawn primarily from Hinduism, Buddhism, Islam and the biblical traditions.

326.1(.2) [426.1(.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 wary monuments, such as the "Bhagavadgita", that express the ligious life of South Asian peoples.

27.1(.2) [427.1(.2)] The Buddhist Religious Tradition

Buddhist religious tradition was founded in South Asia, and boved to China, Japan and Southeast Asia. The founding of buddhism will be examined through the teachings concerning the of Siddhartha. Ch'an or Zen Buddhism will provide an insight into binese and Japanese Buddhism.

128.1(.2) [428.1(.2)] The Catholic Church Today

Catholic Church has radically changed. What does it teach the part of the part

29.1(.2) [429.1(.2)] Christianity and Contemporary Moral sues

hat does the Catholic Church say to the world today about human hity, atheism, community, work, labour, communism and hitalism, nuclear weapons, abortion, birth control, population? he will be introduced to other views of these questions.

33.1(.2) [433.1(.2)] Women and Religion Today MMS 325.1(.2)]

men's groups are having an important impact on traditional ms of religious belief and practice in the world. This course will imine some of the contemporary spiritual movements influenced manly by women. It will include women's roles in mainline bions, such as women priests, monks, and ministers, and biously inspired liberation movements. Radically new religious pressions, such as goddess worship and other pagan forms will so be discussed.

1.1(.2) [434.1(.2)] Christian Spirituality Today

study of Christianity as experienced today focusing on the topics prayer, community building toward justice and peace in the world. The focus is on spiritual texts from different aspects of the Christian dition.

36.1(.2) [436.1(.2)] Creation and Evolution: The Religious bues

theory of evolution is a powerful tool for answering scientific lestions about life in this world. The success of the scientific lerprise has led many people to seek answers to their religious lestions in "evolutionary" ideas. On the other hand, the biblical lecount of creation is a fruitful source of insight into religious lestions about why the world is as we find it. The central portance of biblical truth for Christians and Jews had led many of the seek answers to scientific questions in the creation story.

st.1(.2) [437.1(.2)] Hindu and Buddhist Religious Art and architecture have given concrete expression to religious leas and ideals in South Asia. The course will examine historically buddhist and Hindu art and architecture in association with the ligious conceptions fundamental to these traditions.

38.1(.2) [438.1(.2)] Religion and Art: The West

what ways may art be religious? Through a rapid thematic survey the visual arts in Western civilization and an enquiry into the ationship between religious experience and the arts, the student led to recognize various levels of religiousness in works of art.

10.1(.2) [440.1(.2)] Japanese Religious Traditions

pan's religious life has its origins in Shinto ritual and myth. Its dition develops from the Shinto root in comparison with Daoist, infucian and Buddhist teachings. This comparative history will be mined along with contemporary issues facing religious teachings apan.

11.1(.2) [441.1(.2)] Violence and Non-Violence: East and West bligious traditions both in the east and west have proposed non-lence as a comprehensive ethical response to the problem of lence between motions, 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.

343.1(.2) [443.1(.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.

345.1(.2) [445.1(.2)] Chinese Religious Traditions
What did Confucius say? How does a Taoist and a Buddhist
conceive of the world and his place in it? How have Chinese
religious traditions shaped the character of Chinese culture? These
questions will be examined through the reading in translation of
selected Chinese classics such as: Confucius' Analects, Lao Tzu's
Tao te Ching, The Buddhist Platform Scripture and selected writings
of Chairman Mao.

347.1(.2) [447.1(.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.

348.1(.2) [448.1(.2)] Religion and Ecological Issues in the Developing World

[IDS 348.1(.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.

349.1(.2) [449.1(.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 world-wide 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.

351.1(.2) Love

Our culture has represented love, variously, as effecting self-fulfilment, the affirmation of another personality, union with deity, ment 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 REL 352.2 where a coordinate theme is studied in a similar manner.

352.1(.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.

355.1(.2) [455.1(.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.

356.1(.2) Religions in Film [456.1(.2)]

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.

357.1(.2) [457.1(.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, Aguinas, 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.

359.1(.2) [459.1(.2)] The Buddhist Path: Ritual, Meditation and

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.

360.0 (460.0) Cross-listed as HIS 365.0 The History of Religion and Civil Life in Canada

365.1(.2) [465.1(.2)] Cross-listed as ANT 365.1(.2) Myth: Anthropological Approaches

366.1(.2) [466.1(.2)] Cross-listed as ANT 366.1(.2) Worldview: Anthropological Approaches

367.1(.2) [467.1(.2)] Cross-listed as ANT 341.1(.2); also IRS 340.1(.2) The Early Christian Church in Britain and Ireland

370.1(.2) Introduction to the Qur'an [470.1(.2)]

An examination of the Qur'an as scripture. The course includes its sources, structure, style, transmission, sciences, interpretation and basic themes.

371.1(.2) Life of Muhammad [471.1(.2)]

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.

375.1(.2) Cross-listed as EGL 328.1(.2) The Catholic Tradition in Modern Literature

376.1(.2) Cross-listed as EGL 327.1(.2) The Bible and English Literature

413.1(.2) Cross-listed as SOC 415.1(.2) New Religious Movements

461.1(.2) Cross-listed as PSY 429.1(.2) Psychology and Religion: A Survey

462.1(.2) Cross-listed as PSY 430.1(.2) Psychology and Religion: Application

480.1(.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.

481.1(.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, 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 multicultural and cross-cultural studies began in the nineteenth centural 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 debate about the various strategies for the study of religions.

485.1(.2) - 489.1(.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.

490.0-495.0, 496.1(.2)-497.1(.2) Directed Readings in Religious

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 Religion Studies according to the special needs and interests of students Course content can be proposed by the student.

590.0-595.0 Honors Seminars in Religious Studies Prerequisite: fourth-year honors status and permission of Department.

The three general areas in which the Department offers courses noted below, together with the courses which fall into each area:

Comparative Religion

202.0	345.1(.2) [445.1(.2)]
255.1(.2)	359.1(.2) [459.1(.2)]
323.1(.2) [423.1(.2)]	365.1(.2) [465.1(.2)]
325.1(.2) [425.1(.2)]	366.1(.2) [425.1(.2)]
326.1(.2) [426.1(.2)]	370.1(.2) [470.1(.2)]
327.1(.2) [427.1(.2)]	371.1(.2) [471.1(.2)]
337.1(.2) [437.1(.2)]	413.1(.2)
340.1(.2) [440.1(.2)]	416.1(.2)
341.1(.2) [441.1(.2)]	481.1(.2)
343.1(.2) [443.1(.2)]	

Themes in Religious Studies

347.1(.2) [447.1(.2)]	360.1(.2) [456.1(.
348.1(.2) [448.1(.2)]	375.1(.2)
	376.1(.2)
351.1(.2)	413.1(.2)
352.1(.2)	461.1(.2)
355.1(.2)	462.1(.2)
356.1(.2) [455.1(.2)]	480.1(.2)
	349.1(.2) [449.1(.2)] 351.1(.2) 352.1(.2) 355.1(.2)

The Christian Tradition

203.1(.2)	305.1(.2) [405.1(.2)]	328.1(.2) [428.1(.2]
204.1(.2)	309.0 [409.0]	329.1(.2) [429.1(.2]
301.1(.2) [401.1(.2)]	311.1(.2) [411.1(.2)]	334.1(.2) [434.1(.2)]
302.1(.2) [402.1(.2)]	312.1(.2) [412.1(.2)]	338.1(.2) [438.1(.2)]
303.1(.2) [403.1(.2)]	313.1(.2)	357.1(.2) [457.1(.2)]
		367.1(.2) [467.1(.2)

Sociology and Criminology (SOC and CRM)

Mairperson, Associate Professor

M. VanderPlaat

L. Christiansen-Ruffman,

R. Cosper, J. McMullan,

M. Ovenington, H. Veltmeyer

S. Bell, S. Boyd,

I. Okraku.

D. Perrier, E. Tastsoglou

M. Byers, L. Kowalchuk

A. MacNevin,

G. Rigakos, A. Schulte-Bockholt

D. Crocker

D. Perrier

J. McMullan

A. Turowetz

P. Connelly, H. Ralston

Ecturer

bordinator of Criminology bordinator of Criminology boduate Studies unct Professor

ofessor Emeritus/a

Insociate Professors

Insistant Professors

Expartment Mission

Department offers programs of study that are designed to lovide students with a strong undergraduate experience in both sciology and criminology. Majors and honors programs are learned in each field. Students are particularly encouraged to implete a double major program in sociology and criminology. Department also offers both a Master's degree and a laduate Diploma in Criminology. Courses are also mounted that poort such other academic programs as those in Asian Studies, lantic Canada Studies, International Development Studies, and Women's Studies.

Sociology (SOC)

students are welcome into the Department's sequence of roductory courses, SOC 210.1(.2) and SOC 212.1(.2). These stisfy the prerequisites for almost all 300-level sociology burses. Majors follow a different path: after SOC 210.1(.2) they sust take SOC 211.1(.2), which also satisfies the prerequisites or almost all 300-level courses. In addition, this gives students access to the required theory and methods courses at the 300 well and the required 400-level seminars. Students who meet not university and Departmental requirements are invited to busider the honors program.

any particular year or summer session, the Department has sources to offer only a portion of the courses listed in this bademic Calendar. It is the student's responsibility to secure an to-date timetable prior to registering for any sociology courses.

troductory Courses

Parting in 1995 when the Department offered three introductory purses, all students begin sociology with SOC 210.1(.2).

Rereafter, potential majors with at least a grade of C in SOC 210.1(.2) must take SOC 211.1(.2). Other students may take SOC 12.1(.2). Since almost all 300-level courses require both SOC 10.1(.2) and either SOC 211.1(.2) or 212.1(.2), non-majors between the soc 212.1(.2).

Itudents who have received credit for SOC 200.0 cannot receive idditional credit(s) for any of these courses. SOC 200.0 also have as a prerequisite to courses at the 300 level and to the hajor.

Major Program

The following requirements apply to all students who declare their hajor on or after 1 September 1995.

heir first course, SOC 210.1(.2). If students complete that course with at least a minimum grade of C, they fulfil the prerequisite equirement to egrol in SOC 211.1(.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 [210.1(.2)] and Critical Issues in Social Analysis [211.1(.2)] must be completed with a minimum grade of C.
- 2. All other courses required for the sociology major must be completed with a cumulative quality point average of at least C.
- 3. While acceptance as a major in sociology depends on the student's final grade in SOC 211.1(.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.
- 4. Normally in the second year of a three-year program, but certainly after the completion of SOC 210.1(.2) and 211.1(.2) (which are prerequisites), students must complete Classical Sociological Theory [362.1(.2)]; Contemporary Sociological Theory [363.1(.2)]; Research Design [364.1(.2)]; and Data Analysis [365.1(.2)]. Students are advised to note that SOC 362.1(.2) and SOC 364.1(.2) are also prerequisites respectively for SOC 363.1(.2) and 365.1(.2).
- 5. Complete 2.0 credits at the 300 or 400 level.
- Complete the equivalent of a full-credit (1.0) seminar at the 400 level. Students are advised to check carefully as to which courses do not fulfil this requirement. These are noted in the Academic Calendar.
- 7. FOR STUDENTS MAJORING IN SOCIOLOGY AND CRIMINOLOGY ONLY TWO (2.0) CREDITS CAN BE DOUBLE COUNTED FOR CROSS-LISTED COURSES.

Minor Program

The minor in sociology requires 4.0 credits in sociology completed with a minimum quality point average of C. These courses are:

- 1. Introductory Sociology [210.1(.2)] and either Understanding Society [212.1(.2)] or Critical Issues in Social Analysis [211.1(.2)].
- 2. The equivalent of 3.0 credits in sociology at the 300 or 400 level. For students majoring in sociology and criminology only two (2.0) credits can be double counted for cross-listed courses.

Honors Program

This is a selective program to which students may either apply or be invited to apply for admission. 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. To be admitted to the Honors program students must have achieved a minimum quality point average of at least 3.30. Students should obtain these detailed requirements from the Department before making application for honors. In any case, students are expected to make application no later than 1 February of the year before they wish to begin the honors program and to register in the Honors Seminar course, SOC 530.0. The application for honors must be accompanied by a faculty member's written agreement to serve as a supervisor for the honors thesis, which is an integral part of the requirements of SOC 530.0.

Each honors student's program is supervised by the Department and requires the following:

Honors Seminar [SOC 530.0];

2 either Survey Analysis [461.1(.2)], or Quantitative Methodology [462.1(.2)];

one-half (0.5) credit in Advanced Sociological Theory: either SOC 495.1(.2) or 496.1(.2);

4. three (3.0) additional 400-level sociology credits. No more than two (2.0) of these three (3.0) credits may be from the following: SOC 406.0; SOC 407.0; 408.0; 409.1(.2); and SOC

410.1(.2).

To continue in and graduate from the Honors program, a student must achieve and maintain a minimum quality 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.

First Courses in Sociology

There are two sequences to the introductory courses that are prerequisites for almost all other courses in sociology. One sequence is for those planning to major, the other for those with

Potential majors must take SOC 210.1(.2) and 211.1(.2); other students take SOC 210.1(.2) and 212.1(.2) if they wish to take other sociology courses.

210.1(.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 either SOC 211.1(.2) or SOC 212.1(.2).

211.1(.2) Critical Issues in Social Analysis

Prerequisite: minimum grade of C in SOC 210.1(.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.

212.1(.2) Understanding Society Prerequisite: SOC 210.1(.2).

This course is for non-majors. It follows SOC 210.1(.2), Introductory Sociology, and will be concerned with some of the basic questions sociologists consider important. These topics can change from year to year and may include aging, crime and society, deviance, ethnicity, gender, inequality, social development, socialization, work, globalization, leisure, and problems in Canadian society.

302.0 Social Problems

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

Major social problems affecting Canadians will be analyzed. These range from alcohol use and sexual behavior 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:

304.0 Deviance

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.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 behavior ca be explained.

306.0 Sociology of Education **[EDU 507.0]**

308.0 Urban Sociology

310.1(.2) Society and the Environment

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

This course will be an examination of selected Nova Scotia environmental issues; acid rain, forestry/wildlife, toxic wastes, a 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.

311.1(.2) Population

313.0 Sociology of Kinship and Family

314.0 Sociology of Health and Illness

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

This course investigates the social aspects of health and illness and the consequence of these notions to medical practice. Hea and illness are often considered reflective of an objective biological state. In this course we will examine the social-historic forces which inform this perception and explore its connection (other topics including: the development of biomedicine, the "medicalization of behavior," cross-cultural and historical perspectives on the experience of pain and dying, gender and health and the social meaning of illness.

315.0 Corrections

(CRM 305.0)

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

This course presents an historical/comparative framework for a analysis of corrections in the criminal justice system. Students examine contemporary issues related to treatment, reintegration structure, and reform with an emphasis on issues relevant to ag gender, and race.

317.0 Sociology of Religion [REL 317.0 (417.0)]

319.0 Reform and Revolution in Latin America

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.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, la tenure and the multinational corporations. Special case studies will include revolutions in Mexico, Cuba and Nicaragua; and Ch under Allende and Pinochet.

320.0 Women in Canadian Society [WMS 320.0]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2); or a course in WMS.

The analysis of the social, political and cultural conditions which have shaped women's lives at different stages in Canada's histo and of the ways in which women as social actors have contribut to both their own and to Canada's development. In the context of women's struggles for change, the course also considers the

pacies of patriarchy, sexism and the sexual division of labor in thous contemporary Canadian social and cultural institutions axamines their impact on women as well as the potential for transformation and change. Particular emphasis will be beed on women in Atlantic Canada.

■1.0 Canadian Society

2.0 Political Sociology

requisite: SOC 200.0; or SOC 210.1(.2) and either SOC 1.1(.2) or 212.1(.2); or a course in POL.

vailing theories of radical or dissident behavior will be sessed critically and alternate emerging approaches gested. Protest and radical movements in Europe, Latin arica and elsewhere will be considered.

23.0 The Individual and Society

124.0 Social Stratification

27.0 Social Policy

3.1(.2) Social Gerontology

serequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 1.1(.2) or 212.1(.2).

overview of the manner in which society and older people peract. The course examines such topics as social participation adjustment, economic situations, problems of the elderly, bacies and services designed to assist the elderly.

29.1(.2) The Family in Later Life

prequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 1.1(.2) or 212.1(.2).

examination of the relationships between the older person and tamily. Topics studied include intergenerational relations, andparent roles, mantal status, sexual relationships, problems esented by dependent older people, and family support. Older tomen and widowhood will receive special attention. Crossbional and cross-cultural companisons will be undertaken.

30.1(.2) Sociology of Retirement

prequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 11.1(.2) or 212.1(.2).

he course examines various aspects of retirement from a ciclogical perspective. The topics covered include historical mergence of retirement, retirement policies and pension hemes, problems of individual adjustment to retirement. temational comparisons will be presented.

1.1(.2) Modernization and Aging

erequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 11.1(.2) or 212.1(.2).

In exploration of the relationships between patterns of aging and latus of the elderly and societal development and modernization. Ecciological 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 trawn from pre-industrial societies, as well as today's developed and developing nations.

32.0 Sociology of Atlantic Canada

33.0 Social Movements

Figrequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 11.1(.2) or 212.1(.2).

nalysis of the origin and development of social movements and heir 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.

334.0 Cross-listed as CRM 315.0-316.0 Selected Issues in Criminology

336.1(.2) Work and Occupations in Contemporary Society

337.1(.2) Leisure in Contemporary Society

338.1(.2) Language Change and Social Change [LIN 338.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.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.

339.1(.2) The Sociology of Language

[LIN 339.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.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.

340.0 Ethnic and Minority Groups

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2); or a course in ANT.

An analysis of ractal, ethnic, and minority group structure and of inter-group processes in different societies, with special emphasis given to Canadian society.

342.1(.2) Social Interaction

343.1(.2) Society as Drama

344.0 Asylums, Prisons, and Other Total Institutions

345.1(.2) Cross-listed as CRM 320.1(.2) Women, Law and The State

350.1(.2)-351.1(.2) Contemporary Issues in Sociology Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

The course will provide an opportunity for students to study contemporary substantive issues in considerable depth and detail.

352.1(.2) The Mass Media

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.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.

353.1(.2) Industry and Labour in Contemporary Society

354.0 Cross-listed as CRM 307.0 Policing and Society

355.1(.2) Cross-listed as CRM 308.1(.2) Corporate Crime

356.1(.2) Cross-listed as CRM 309.1(.2) Victimology

357.1(.2) Cross-listed as CRM 310.1(.2) Criminal Law

358.1(.2) Cross-listed as CRM 311.1(.2) Culture and Crime

359.0 Cross-listed as CRM 312.0 Young Offenders and Juvenile Justice

362.1(.2) Classical Sociological Theory

Prerequisite: SOC 200.0; or SOC 210.1(.2) and 211.1(.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.

Note: The two half-credit courses, SOC 362.1(.2) and 363.1(.2), replace a former course, SOC 301.0. Students cannot receive a credit for both the full-credit course and either/or both half-credit courses.

363.1(.2) Contemporary Sociological Theory

Prerequisite: SOC 200.0; or SOC 210.1(.2) and 211.1(.2); and SOC 362.1(.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.

Note: The two half-credit courses, SOC 362.1(.2) and 363.1(.2), replace a former course, SOC 301.0. Students cannot receive a credit for both the full-credit course and either/or both half-credit courses.

364.1(.2) Research Design

[CRM 364.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and 211.1(.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.

Note: The two half-credit courses, SOC 364.1(.2) and 365.1(.2) replace a former course, SOC 300.0. Students cannot receive a credit for both the full-credit course and either/or both half-credit courses.

365.1(.2) Data Analysis

Prerequisite: SOC 200.0; or SOC 210.1(.2), 211.1(.2); and SOC 364.1(.2).

This course, which is a sequel to SOC 364.1(.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.

Note: The two half-credit courses, SOC 364.1(.2) and 365.1(.2) replace a former course, SOC 300.0. Students cannot receive a credit for both the full-credit course and either/or both half-credit courses.

366.1(.2) Field Methods in Sociolinguistics I

[LIN 366.1(.2)]

Prerequisite: 1.0 credit in SOC or LIN; 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

367.1(.2) Field Methods in Sociolinguistics II [LIN 367.1(.2)]

Prerequisite: SOC 366.1(.2); or equivalent course, e.g. LIN 310.1(.2).

A continuation of SOC 366.1(.2). Students gain experience in the actual collection of data on a language.

371.1(.2) Evaluating Social Programs

372.1(.2) Social Impact Analysis

381.0-382.0 Cross-listed as CRM 315.0-316.0 Selected Issues in Criminology

385.1(.2) Problems of Development [IDS 485.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2); or a course in ECO or POL.

This course will provide an introduction into concepts and theorist 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.

386.1(.2) Sociology of Developing Societies IIDS 386.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2); or a course in ECO or POL.

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).

387.1(.2) Women and Development [WMS 387.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2); or IDS 300.0.

This course will examine the role of women in development. It will examine the changing structure of the division of labour by gendal 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.

388.1(.2)-389.1(.2) Selected Issues in Criminology [CRM 313.1(.2)-314.1(.2)]

Prerequisite: SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or 212.1(.2).

se courses are designed to enable a student to examine a ricular criminological issue in detail.

1(.2) Gender, Race and Justice CRM 306.1(.2)]

requisite: SOC 200.0; or SOC 210.1(.2) and either SOC 1.H(.2) or 212.1(.2).

course is concerned with the relevance of race and gender to temporary justice issues and the administration of the criminal Lice system.

11.0 Rural Sociology

requisite: SOC 200.0; or SOC 210.1(.2) and either SOC 1.1(.2) or 212.1(.2).

course is concerned with the comparative study of agrarian maritime societies. The following issues will be examined in context: class structures, models of development, business, the 'green' and 'blue' revolution in Third World iculture and the fisheries, movements among rural workers nd peasants.

2.1(.2) Cross-listed as CRM 321.1(.2) Critical Issues in Micing

183.1(.2) Cross-listed as CRM 322.1(.2) Woman Battery and be Criminal Justice System

4.1(.2) Cross-listed as CRM 402.1(.2) Issues in Juvenile **Justice**

Sociology of Labour **485.0**

■6.0 Directed Reading in Sociology Mereguisite: honors standing.

this course provides an opportunity for honors students to read in both in an area of sociology not normally covered by regular partmental course offerings. Students are expected to monstrate initiative and independence.

wote: This course does not constitute a 400-level seminar in imment of requirement (c) for majors.

107.0-408.0 and 409.1(.2)-410.1(.2) Directed Readings in WMS 407.0-408.0 and 409.1(.2)-410.1(.2)]

Perequisite: SOC 363.1(.2) and 365.1(.2).

These courses provide an opportunity for students to read in both in an area of sociology not normally covered by regular epartmental course offerings. Students are expected to monstrate some initiative and independence. te: These courses do not constitute a 400-level seminar in Milment of requirement (c) for majors.

411.1(.2) Cross-listed as CRM 414.1(.2) The Politics of Youth Crime

\$12.0 Sociological Perspectives on Aging Prerequisite: SOC 328.1(.2), 363.1(.2) and 365.1(.2).

This seminar course is designed as an in-depth study of meoretical and methodological issues in sociological studies of ling. Major sociological perspectives and theories in aging are plored. Research applications of the theories in selected bstantive subject areas are also presented.

\$13.0 Sociology of Identity

Prerequisite: SOC 363.1(.2) and 365.1(.2).

This is a seminar which will explore methodological, theoretical and substantive issues in a sociological approach to social Mentities. 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.

414.0 Sociology of Knowledge and Science

415.1(.2) New Religious Movements [REL 413.1(.2)]

417.0 Seminar on Endangered Languages (LIN 417.0)

Prerequisite: at least 10.0 university credits.

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.

419.0 Sociology of the Environment

Prerequisite: SOC 363.1(.2) and 365.1(.2); or ENV 300.1(.2) or a declared major in IDS.

This seminar examines the role of community participation in the environmental movement, and the prospects for ecologically sustainable development. The comparative analysis of environmental discourses, and the varying interests and assumptions that underlie each form, is followed by an examination of the political ecology perspective. Studies of public policy, market-led environmentalism, indigenous knowledge and customary resource management, and the environmental movement itself, are some other themes covered in the course

420.0 Comparative Regional Development

422.1(.2) Gender and Development: Theory and Method [IDS 422.1(.2)/622.1(.2); WMS 422.1(.2)] Prerequisite: SOC 363.1(.2) and 365.1(.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.

423.1(.2) Gender and Development: Policy and Practice IIDS 423.1(.2)/623.1(.2); WMS 423.1(.2)] Prerequisite: SOC 363.1(.2) and 365.1(.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.

425.0 Corporate Power and the World Economy

430.0 The Sociology of Alcohol Use Prerequisite: SOC 363.1(.2) and 365.1(.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 tavems, 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.

431.0 Law in Society (CRM 400.0)

Prerequisite: SOC 363.1(.2) and 365.1(.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 behavior and the determinants and purposes of legislation as the link between values and interests. Attention will also be directed to law as a profession, and jurisprudence as an evolving discipline with special emphasis on issues in the administration of justice.

432.1(.2) Gender and Law [CRM 401.1(.2) and WMS 432.1(.2)]

Prerequisite: SOC 363.1(.2) and 365.1(.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.

440.0; 441.0; 442.1(.2)-444.1(.2) Selected Studies in Sociological Analysis

Prerequisite: SOC 363.1(.2) and 365.1(.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.

447.1(.2) Work and the Empowerment of Women in India [WMS 447.1(.2)]

448.0 Feminist Analysis: Field Research on Women and Men IWMS 448.01

Prerequisite: SOC 363.1(.2) and 365.1(.2).

This seminar focuses on problems of studying women, including sex bias in research. It also provides insights from feminist methodology.

450.0; 451.1(.2); 452.1(.2) Selected Topic Prerequisite: SOC 363.1(.2) and 365.1(.2).

A seminar course which examines questions within an area of specialization and enables a student to study a particular sociological issue in detail.

453.0 Citizen Participation in Community Planning

461.1(.2) Survey Analysis

Prerequisite: SOC 364.1(.2) and either 365.1(.2) or CRM 302.1(.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.

462.1(.2) Quantitative Methodology Prerequisite: SOC 461.1(.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.

468.1(.2) Women's Organizations and Change [WMS **468.1(.2)**]

480.0 Ethnicity and the Canadian State

481.0 Gender, Ethnicity and Migration IWMS 481.01

493.1(.2) [593.1(.2)] Advanced Research Methods Prerequisite: SOC 363.1(.2) and 365.1(.2).

This is a course in advanced qualitative research methods. Front time to time, depending on student interest and faculty availabilities course will treat issues raised in historical, comparative, observational and other methods, as well as general questions in research design and analysis.

495.1(.2)-496.1(.2) [595.1(.2)-596.1(.2)] Advanced Sociological

Prerequisite: SOC 363.1(.2) and 365.1(.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.

509.1(.2) Directed Reading: Advanced Studies in Sociology, Prerequisite: one of SOC 407.0 to 410.1(.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 400-level seminar in fulfilment of requirement (c) for majors.

530.0 Honors Seminar (CRM 500.0)

Prerequisite: enrolment in honors program.

The purpose of this seminar is to aid students in the preparation of an honors 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 honors level. It is expected that there will be an empirical component to the thesis.

Criminology (CRM)

The purpose of a Bachelor of Arts degree in criminology, including an honors program, is to provide students with an opportunity for focused study in an area relating to criminal behavior 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 honors program is included for its outstanding undergraduate students.

Major Program

For admission to the program, students must have completed SOC 210.1(.2) and 211.1(.2) with a minimum grade of C in each course; and one (1.0) additional credit with a minimum grade of C from the following courses: ANT 200.0; ANT 202.1(.2), ANT 280.1(.2), ECO 201.1(.2); ECO 202.1(.2); HIS 240.0; POL 200.01 PSY 200.1(.2); PSY 250.1(.2); or PSY 260.1(.2).

To major in criminology, students must complete seven (7.0) credits including:

- a. three (3.0) credits from core courses;
- b. two (2.0) credits from Group A elective courses;
- c. one (1.0) credit from Group B elective courses; and
 - d. one (1.0) credit from Group C cognate courses.

Because of the significant interest in Criminology, the number of

ified students permitted to declare Criminology as their major have to be limited.

Core Program Courses [three (3.0 credits)]

inte: To register for each of these core courses, students already be a declared major in Criminology.

RM 300.1(.2) Classical Criminological Theory

RM 301.1(.2) Contemporary Criminological Theory

RM 302.1(.2) Contemporary Chminological RM 302.1(.2) Criminal Statistics

RM 303.1(.2) Crime and Society

RM 304.1(.2) Canadian Criminal Justice System

RM 364.1(.2)/SOC 364.1(.2) Research Methods

Group A - Elective Courses [two (2.0 credits)]

RM 305.0/SOC 315.0 Corrections

RtM 306.1(.2)/SOC 390.1(.2) Gender, Race and Justice

RM 307.0/SOC 354.0 Policing and Society

RM 308.1(.2)/SOC 355.1(.2) Corporate Crime

RM 309.1(.2)/SOC 356.1(.2) Victimology

RM 310.1(.2)/SOC 357.1(.2) Criminal Law

RM 311.1(.2)/SOC 358.1(.2) Culture and Crime

RM 312.0/SOC 359.0 Young Offenders and Juvenile Justice

RM 313.1(.2)/SOC 388.1(.2) Selected Issues in Criminology

RM 314.1(.2)/SOC 389.1(.2) Selected Issues in Criminology

RM 315.0/SOC 381.0 Selected Issues in Criminology

RM 316.0/SOC 382.0 Selected Issues in Criminology

RM 320.1(.2) Women, Law and The State

RM 321.1(.2) Critical Issues in Policing

RM 322.1(.2) Woman Battery and the Criminal Justice System

RM 323.1(.2) Drug Control in the 20th Century

Group B - Elective Courses [one (1.0 credit)]

RM 350.1(.2)/PSY 320.1(.2) Psychology and Law

RM 351.1(.2)/PSY 335.1(.2) Abnormal Psychology

RM 352.1(.2)/PHI 332.1(.2) Ethics and the Law

RM 353.1(.2)/PHI 333.1(.2) Philosophy of Law RM 354.0/POL 309.0 Law and Politics: The Political

mensions of the Legal Process

RM 400.0/SOC 431.0 Law in Society

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RM 401.1(.2)/SOC 432.1(.2) Gender and Law

RM 402.1(.2) Issues in Juvenile Justice

RM 403.0 Penology

RM 404.1(.2) Critical Criminology

RM 405.1(.2) Comparative and Historical Criminology

RM 406.1(.2) Advanced Studies in Criminology

RM 407.1(.2) Advanced Studies in Criminology

RM 408.0 Advanced Studies in Criminology

RM 409.1(.2) Directed Readings in Criminology

RM 410.1(.2) Directed Readings in Criminology

RM 411.0 Directed Readings in Criminology

RM 412.0/ANT 470.0 Forensic Anthropology

RM 414.1(.2) The Politics of Youth Crimes

RM 503.0 Directed Readings in Criminology

Group C - Cognate Courses [one (1.0 credit)]

The equivalent of one (1.0) credit at the 300 or 400 level not listed as part of the Criminology major (i.e. core courses, Group A or proup B) in one of the following social sciences: anthropology, conomics, geography, political science, psychology and accology.

FOR STUDENTS MAJORING IN SOCIOLOGY AND ERIMINOLOGY ONLY TWO (2.0) CREDITS CAN BE DOUBLE COUNTED FOR CROSS-LISTED COURSES.

No nors Program

tudents must apply no later than 1 February of the year before rey wish to begin the honors program. To be admitted, students bust have achieved a minimum quality point average of 3.00. A budent's application must be accompanied by a faculty member's mitten agreement to serve as a supervisor for the honors thesis, which is an integral part of the requirements of CRM 500.0. This is a five (5.0) credit program. To graduate a student must baintain and achieve a minimum quality point average of B+0.00) in the following courses:

- a. CRM 500.0/SOC 530.0 Honors Seminar;
- b. CRM 501.1(.2) Advanced Criminological Theory;
- CRM 502.1(.2) Advanced Research Methodology in Criminology;
- d. CRM 503.0 Directed Readings in Criminology
- e. Two (2.0) additional credits from Group B electives. No more than one (1.0) of these credits may be Directed Reading courses.

Certificate Program in Criminology

The Department of Sociology administers the Certificate Program in Criminology (CRM) through its Program Coordinator, only to students accepted to the program prior to the 1997-98 academic year. No new applicants are being accepted. Students interested in pursuing criminology as an area of study should consider the Criminology major program. As of 1 September 1998, the following course substitutions are in effect: CRM 310.1(.2) for SOC 203.1(.2); CRM 300.1(.2) and CRM 301.1(.2) for SOC 303.0; CRM 303.1(.2) and CRM 304.1(.2) for SOC 307.0.

300.1(.2) Classical Criminological Theory

Prerequisite: formal declaration of a major/honors 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 and social explanations of crime and criminality.

301.1(.2) Contemporary Criminological Theory

Prerequisite: formal declaration of a major/honors in criminology. Students are strongly advised to complete CRM 300.1(.2) before enroling in this course.

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.

302.1(.2) Criminal Statistics

Prerequisite: formal declaration of a major/honors in criminology. Students are strongly advised to complete CRM/SOC 364.1(.2) before enroling in this course.

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.

303.1(.2) Crime and Society

Prerequisite: formal declaration of a major/honors in criminology.

This course introduces students to contemporary patterns, issues, problems and themes pertinent to the field of criminology in Canada.

304.1(.2) Canadian Criminal Justice System

Prerequisite: formal declaration of a major/honors 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.

Note: Students with a credit for SOC 307.0 are not eligible to enrol in CRM 304.1(.2).

305.0 Cross-listed as SOC 315.0 Corrections

306.1(.2) Cross-listed as SOC 390.1(.2) Gender, Race and Justice

307.0 Policing and Society (SOC 354.0)

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.2).

This course is designed to explore critical issues in the policing of modem societies. The social role of the police and police practices in contemporary society will be examined. Topics will include the functions and objectives of modem 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.

308.1(.2) Corporate Crime [SOC 355.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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.

309.1(.2) Victimology [SOC 356.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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.

310.1(.2) Criminal Law [SOC 357.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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.

311.1(.2) Culture and Crime [SOC 358.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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).

312.0 Young Offenders and Juvenile Justice (SOC 359.0)

Prerequisite: formal declaration of a major/honors in criminology; or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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 Delinquenta Act, and a critical examination of youth corrections.

Note: Students with a credit for SOC 454.0 are not eligible to enrol in CRM 312.0/SOC 359.0.

313.1(.2)-314.1(.2) and 315.0-316.0 Selected Issues in Criminology

[SOC 388.1(.2)-389.1(.2) and SOC 381.0-382.0]

Prerequisite: formal declaration of a major/honors in criminology or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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.

320.1(.2) Women, Law and The State [SOC 345.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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 justical system will be examined.

321.1(.2) Critical Issues in Policing [SOC 392.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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, policing unionism and anti-unionism, community-based policing, problem oriented policing, and privitization. Students will gain a critical theoretical appreciation of the institutions of policing and their relationship to the state.

322.1(.2) Woman Battery and the Criminal Justice System [SOC 393.1(.2)]

Prerequisite: formal declaration of a major/honors in criminology or SOC 200.0; or SOC 210.1(.2) and either SOC 211.1(.2) or SOC 212.1(.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 Wornen's Movement, academic research, and policy making. Feminist, family violence, and psychological perspectives will be considered.

323.1(.2) Drug Control in the 20th Century: An Investigation of Origins, Race, Class and Gender

Prerequisite: completion of core courses for criminology major.

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 socioeconomic context. Issues of moralism, race, class, and gender will be explored in relation to past and current drug policy.

350.1(.2) Cross-listed as PSY 320.1(.2) Psychology and Law

351.1(.2) Cross-listed as PSY 335.1(.2) Abnormal Psychology

\$2.1(.2) Cross-listed as PHI 332.1(.2) Ethics and the Law

33.1(.2) Cross-listed as PHI 333.1(.2) Philosophy of Law

184.1(.2) Cross-listed as SOC 364.1(.2) Research Design

80.0 Cross-listed as SOC 431.0 Law in Society

■1.1(.2) Cross-listed as SOC 432.1(.2)/WMS

182.1(.2) Gender/ Law

22.1(.2) Issues in Juvenile Justice 50C 404.1(.2)]

requisite: SOC 363.1(.2) and 365.1(.2) or completion of the pare criminology requirements; CRM 312.0 (SOC 359.0).

is a seminar course that offers an in-depth examination of intemporary issues associated with youth crime and juvenile slice. Topics to be examined include explaining law reform, lass, race, and gender issues in juvenile justice, the ininistration of youth justice, youth corrections, community ematives, and restorative justice.

iste: Students with a credit for SOC 454.0 are not eligible to in CRM 402.1(.2).

83.0 Penology

Perequisite: completion of the criminology core requirements.

bis seminar traces the history of penal methods and the evelopment of contemporary corrections with particular focus on e origins of imprisonment. This seminar will study contemporary crectional institutions with particular emphasis on the impact of assessment of educational, occupational and treatment bograms. Correctional processes, as these relate to the pologies of offenders, and special problems of female, youthful and persistent offenders will be examined.

Note: Students with a credit for SOC 455.0 are not eligible to in CRM 403.0.

4.1(.2) Critical Criminology

Ferequisite: 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 minality. Topics may include the politicization of crime and brine control, the significance of gender and race issues in inplanations of crime and criminality, and criminalization as a mode of control.

tote: Students with a credit for SOC 457.1(.2) are not eligible to much in CRM 404.1(.2).

405.1(.2) Comparative and Historical Criminology

Prerequisite: completion of the criminology core requirements.

This seminar course examines the nature of deviance, crime and pocial control in past societies. It focuses on the development of priminal law and evidence, policing, the institutionalization of eviance and crime, penality, the rise of social surveillance and ocial discipline, changing images of criminality and the social egulation of women.

Note: Students with a credit for SOC 458.1(.2) are not eligible to borol in CRM 405.1(.2).

106.1(.2)-407.1(.2) and 408.0 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.

409.1(.2)-410.1(.2) and 411.0 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.

412.1(.2) Cross-listed as ANT 470.0 Forensic Anthropology

414.1(.2) The Politics of Youth Crime [SOC 411.1(.2)]

Prerequisite: SOC 363.1(.2) and 365.1(.2) or completion of the core criminology requirements; CRM 312.0 (SOC 359.0).

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.

Note: Students who already have a credit for SOC 454.0 cannot also receive credit for this course.

500.0 Honors Seminar (SOC 530.0)

The purpose of this seminar is to aid students in the preparation of an honors 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 honors level. It is expected that there will be an empirical component to the thesis.

501.1(.2) Advanced Criminological Theory Prerequisite: enrolment in honors program.

This seminar course examines key debates and themes in criminological theory. Attention is given to the critical theoretical accomplishments of various writers.

502.1(.2) Advanced Research Methodology in Criminology Prerequisite: enrolment in honors 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.

503.0 Directed Readings in Criminology Prerequisite: enrolment in honors 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.(CRM)]

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.

600.0 Advanced Seminar in Criminology Prerequisite: graduate standing.

This seminar course will examine current theory and research by faculty and prepare students for thesis work.

601.1(.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.

602.1(.2) Advanced Research Methodology in Criminology Prerequisite: graduate standing.

This seminar course is designed to cover advanced topics, issued 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.

603.1(.2)-604.1(.2) and 605.0 Advanced Topics in Criminology

Prerequisite: graduate standing.

These courses are designed to provide seminars pertaining to particular interests of faculty and students in criminology.

606.1(.2)-607.1(.2) and 608.0 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

609.1(.2)-610.1(.2) and 611.0 Selected Topics in Criminology Prerequisite: graduate standing.

Concentrated studies in areas of student specialization.

615.0 Thesis Research Prerequisite: graduate standing.

Research conducted under the supervision of an advisory

Women's Studies (WMS - undergraduate; GWS graduate)

Undergraduate Committee on Women's Studies

G. Thomas, Coordinator English E. Asp English S. Bell Sociology J. Blair Philosophy S. Boyd Sociology J. Cauville French L. Christiansen-Ruffman Sociology S. Crooks Philosophy A. Dalton Religious Studies P. Fitzgerald Management K. Flikeid French History E. Haigh **English** M. Harry T. Heffeman **English** R. Hulan English English W. Katz

Political Science E. Keeble S. Kindred **Philosophy** M. MacDonald **Economics** A. MacNevin Sociology H. McGee Anthropology N. Sharif **Economics** E. Tastsoglou Sociology G. Thomas Classics M. VanderPlaat Sociology L. Van Esch. Marketing

S. Walter

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.

Anthropology

Courses in Women's Studies lead to a fuller understanding of women's lives, culture, ways of knowing, struggles for social justi and change, and feminist theories and methodologies. Students the program learn about the forms and structures of discrimination that prevent women from participating equally in society. They lea 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 widd recognized as playing an important role in broadening our definition of knowledge and helping amend the bias and narrowness of man disciplines and courses.

Governments and large institutions are now acknowledging the need to work towards sexual equality; consequently graduates while can demonstrate their expertise in this area can expect opportunities to find practical uses for their knowledge.

Requirements for a Major

- Students must complete six (6.0) credits in Women's Studied Normally they will accomplish this by taking the following courses:
- WMS 200.1(.2)
- WMS 420.1(.2) and 421.1(.2)

WOST 3500 A/B (from Dalhousie)].

the equivalent of one (1.0) credit with a clear focus on femini theory, feminist methodology, and/or feminist analysis (e.g., such courses as WMS 448.0 (from Saint Mary's); WOM 2210 A/B, 3310 A/B, 3311 A/B (from Mount Saint Vincent)

three and one-half (3.5) additional WMS credits offered by Saint Mary's, Mount Saint Vincent, and Dalhousie Universities. Courses from the latter two institutions are subject to the

blished Saint Mary's regulations governing transfer credits and be processed through the Letter of Permission system.

All courses for the major must be approved by the Coordinator The WMS program at Saint Mary's.

Students must satisfy all the requirements for a major in the bulty of Arts as delineated in Section 3 of this Calendar.

uirements for an Honors

For admission to honors in Women's Studies, students must re a minimum quality point average of 3.0 in Women's Studies isses. This average must be maintained for continuance in the mors program.

In addition to the requirements for a major in Women's dies, students must complete five (5.0) credits as follows:

either four (4.0) credits from Women's Studies, or three (3.0) dits from Women's Studies and one (1.0) from a discipline ated to the student's interest. Courses in which the content is men's studies related, but are not officially cross-listed as men's Studies, may be substituted for Women's Studies credits h the permission of the Coordinator. Students are also buraged to take advantage of course offerings in Women's dies Programs at Mount Saint Vincent and Dalhousie

Honors Seminar (WMS 520.0), which will include an honors sis. The honors thesis should be in an area of Women's Studies Interest to the student; be approved by the instructor; and monstrate knowledge of theory and methodology of Women's ies in the area chosen.

Students must meet the requirements for honors in the Faculty Arts as delineated in this Calendar.

Students may do double honors in Women's Studies and In ther area of their choice according to the Faculty of Arts ulations set down in this Calendar. They must also meet any itional requirements of the second academic program involved.

Equirements for a Minor

and ents must complete four (4.0) credits, including either WMS 20.1(.2) and 421.1(.2) or one (1.0) credit as described in regulation for a minor in WMS.

bte: The abbreviation for undergraduate courses in Women's **Budies is WMS.**

200.1(.2) Focus on Women

his course presents a variety of perspectives on the role, function, and expression of women. It focuses on women using a variety of sciplines in both the humanities (e.g., classics, English, history, aguistics, and religious studies) and the social sciences (e.g., ath ropology, economics, political science, and sociology).

303.1(.2) Cross-listed as ANT 303.1(.2) Women: A Cultural Perspective

requisite: Either ANT 202.1(.2) and 290.1(.2), or one (1.0) social ce nce credit in a related area.

305.1(.2) Cross-listed as REL 305.1(.2) [405.1(.2)] Women in **Christian Scripture and Tradition**

31 1.1(.2)-312.1(.2) and 313.0-315.0 Special Topics in Women's **Studies**

Pre requisite: at least 1.0 credit in WMS.

These are combined lecture-seminar courses on a selected topic in Nomen's Studies. Course content will vary from year to year. These bourses allow students to take advantage of offerings in other partments relevant to a Women's Studies degree.

317.0 Cross-listed as EGL 317.0 Writing by Women Pre requisite for WMS 317.0: at least 1.0 credit in English or e rmission of instructor.

- 320.0 Cross-listed as SOC 320.0 Women in Canadian Society Prerequisite for WMS 320.0: SOC 200.0, or 1.0 credit in WMS, or permission of instructor.
- 321.1(.2) Cross-listed as CRM 320.1(.2) Women, Law and the
- 325.1(.2) Cross-listed as REL 333.1(.2) Women and Religion Today
- 326.1(.2) Cross-listed as EGL 326.1(.2) Language and Gender
- 348.1(.2) Cross-listed as PSY 348.1(.2) Psychology of Gender

Prerequisite for WMS 348.1(.2): one of PSY 200.1(.2), 240.1(.2), 250.1(.2), and 260.1(.2); or permission of instructor.

- 349.1(.2) Cross-listed as ECO 349.1(.2) Women and the **Economy**
- 352.1(.2) Cross-listed as CLA 352.1(.2) Women in Antiquity I
- 353.1(.2) Cross-listed as CLA 353.1(.2) Women in Antiquity II
- 360.0 Cross-listed as HIS 360.0 A History of Women in the Western World
- 380.0 Cross-listed as PHI 380.0 Philosophical Issues in **Feminism**
- 387.1(.2) Cross-listed as SOC 387.1(.2) Women and Development

Prerequisite for WMS 387.1(.2): at least 1.0 credit in WMS, political science, economics or sociology.

391.1(.2) Cross-listed as MGT 391.1(.2) Women in Management

Prerequisite for WMS 391.1(.2): completion of at least 10.0 credits.

- 393.1(.2) Cross-listed as CRM 393.1(.2) Women Battery and the Criminal Justice System
- 404.1(.2)-405.1(.2) and 406.0 [604.1(.2)-605.1(.2) and 606.0] Contemporary Issues of Feminism

Prerequisite: at least 2.0 credits in WMS 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.

407.0-408.0 and 409.1(.2)-410.1(.2) Cross-listed as SOC 407.0-408.0 and 409.1(.2)-410.1(.2) Directed Readings in Sociology Prerequisite for WMS 407.0-408.0 and 409.1(.2)-410.1(.2): at least 4.0 credits in WMS and permission of instructor.

414.1(.2)-415.1(.2) and 416.0 [614.1(.2)-615.1(.2) and 616.0] **Directed Readings In Women's Studies**

Prerequisite: at least 4.0 credits in WMS 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.

- 417.1(.2) Cross-listed as EGL 417.1(.2) Feminist Literary Theory
- 420.1(.2) [620.1(.2)] Seminar on Women's Studies Prerequisite: at least 13.0 credits or permission of instructor.

Students will review feminist theoretical perspectives, methodologies, and analytic approaches grounded in several disciplines in the humanities and social sciences. Each student will develop a research proposal that applies feminist perspectives to a selected contemporary issue within the women's movement (e.g., labour force inequality, new reproductive technologies, women's organizational structures, political empowerment, violence against women).

421.1(.2) [621.1(.2)] Seminar on Women's Studies Prerequisite: WMS 420.1(.2).

Students will continue to develop their analytic skills and apply feminist methodologies and analysis in carrying out their proposed research.

422.1(.2) Cross-listed as SOC 422.1(.2) Gender and Development: Theory and Method

Prerequisite for WMS 422.1(.2): theory and methods courses in WMS or sociology or permission of instructor.

423.1(.2) Cross-listed as SOC 423.1(.2) Gender and Development: Policy and Practice

Prerequisite for WMS 423.1(.2): theory and methods courses in WMS or sociology or permission of instructor.

427.1(.2) Cross-listed as EGL 427.1(.2) Language, Gender and Power

Prerequisite: at least 1.5 credits at the 300-level or above.

- 432.1(.2) Cross-listed as SOC 432.1(.2)/CRM
- 401.1(.2) Gender and Law
- 433.1(.2) Cross-listed as FRE 433.1(.2) Women's Literature in France
- 434.1(.2) Cross-listed as FRE 434.1(.2) Women's Literature in French Canada
- 447.1(.2) Cross-listed as SOC 447.1(.2) Work and the Empowerment of Women in India

448.0 Cross-listed as SOC 448.0 Feminist Analysis: Field Research on Women and Men

Prerequisite for WMS 448.0: previous or concurrent theory and methods courses in WMS or sociology or permission of instructor.

- 461.1(.2) Cross-listed as EGL 461.1(.2) Polemical Writing by Women
- 468.1(.2) Cross-listed as SOC 468.1(.2) Women's Organizations and Change
- 481.0 Cross-listed as SOC 481.0 Gender, Ethnicity and Migration

514.1(.2) and 515.1(.2), 516.0 Advanced Directed Readings in Women's Studies

Prerequisite: admission into honors in Women's Studies or permission of instructor.

520.0 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.

550.0 Cross-listed as EGL 550.0 Special Author

Prerequisite for WMS 550.0: enrolment in the English honors program, or special recommendation of the Department of English or permission of instructor.

590.0 Cross-listed as EDU 590.0 Directed Study in Education Prerequisite for WMS 590.0: permission of instructor.

With the written permission of the Graduate Coordinator for Women's Studies, the instructor of the courses, and the Chairperson of the academic unit in which the course is housed, the above undergraduate courses may be taken as a 600-level course by students officially accepted in the graduate program in Women Studies. These details must be in place and the written information file and processed at the Registrar's Office before a student can undertake registration in a course so designated at the 600-level.

Graduate courses are available to students registered in the Masters in Women's Studies and to students in other graduate programs with the permission of the Graduate Women's Studies Coordinator.

Note: The abbreviation for graduate courses in Women's Studies is GWS.

GWS 601.1 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.

GWS 602.1 Feminist Methodologies

This class examines feminist critiques and strategies around knowledge and research methodologies. It explores historical and contemporary debates on important research issues.

GWS 603.1 Graduate Seminar

This seminar will be used to discuss student research proposals and to provide a forum to integrate material from other classes. As part of this seminar, each student will be required to engage in field based learning (i.e., community-based, developed in the context of each student's program). This class will meet bi-weekly throughout both semesters.

GWS 604.1(.2)-605.1(.2) and 606.0 Contemporary Issues of Feminism

See WMS 404.1(.2)-405.1(.2) and 406.0 above for descriptions.

GWS 609.1(.2) – 611.1(.2); 612.0 – 613.0 Directed Study
Directed Study will allow students to draw on a range of faculty
research interests on topics where classes are not regularly offered

GWS 614.1(.2)-615.1(.2) and 616.0 Directed Readings in Women's Studies

See WMS 414.1(.2)-415.1(.2) and 416.0 above for descriptions.

GWS 620.1(.2)-621.1(.2) Seminar on Women's Studies See WMS 420.1(.2) and 421.1(.2) above for descriptions.

GWS 698.0/699.0 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 fulfil the requirements. The thesis must meet the specifications of the institution at which the student is enroled.

Note: Lists of courses in Women's Studies offered at Mount Saint Vincent and Dalhousie Universities are available in the academic calendars of those institutions or from the Saint Mary's WMS Coordinator.

Financial Information, Student Awards and Financial Aid Programs

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 for the 2001-2002 academic year had not yet been determined. The fees listed in this Section were those for 2000-2001 and are subject to change prior to 1 September 2001. All fee calculations are made at registration without prejudice and are subject to confirmation and adjustment at a later date.

Students seeking financial information should address their inquiries and correspondence to:

Supervisor, Accounts Receivable Financial Services Saint Mary's University Halifax, Nova Scotia B3H 3C3

Telephone: (902) 420 - 5468 Fax: (902) 496 - 8184

e-mail: accounts.receivable@stmarys.ca

This subsection is indexed for easy reference:

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	Class Withdrawals and Refunds	
6.	Scholarships, Bursaries and Sponsorships	206
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(Fees listed below were those in effect for 2000-2001)

1. Academic Fees

a. Tuition Fees

P. Committee of the com		(i.e., 1.0 credit)
Undergraduate Programs		
- Courses in the Faculty of Arts		\$842.00
- Courses in the Faculty of Commerce		\$842.00
- Courses in the Faculty of Science	**	\$862.00
- Diploma in Engineering		
100 and 200 Level EGN Courses		\$636.00
300 Level EGN Courses		\$862.00
- 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 full 1.0 credit course administered by the Faculty of Science includes a Science Technology Fee of \$20.00. Therefore, the cost for a half credit (.5) course taught in the Faculty of Science is \$431.00.

The fee also applies to Faculty of Science cross-listed courses. Therefore, a cross-listed science course available as a credit in the Faculty of Arts or Commerce will be priced with the Science Technology Fee included. For example, GPY 313.1/GEO 373.1 will be priced as a course in the Faculty of Science.

	(i.e., 1.0 credit)
Graduate Programs	
- M.A Atlantic Canada Studies	\$1,152.00
- M.A Criminology	\$1,152.00
- M.A History	\$1,152.00
 M.A International Development Studies 	\$924.00
- M.A Philosophy	\$1,152.00
- M.A Women's Studies	\$924.00

- M.B.A.	\$868.00
- M.Sc Applied Psychology	\$924.00
- M.Sc Astronomy	\$924.00
- Thesis Continuation (Per Academic Session)	\$462.00
- Graduate Diploma: Criminology	\$1,152.00
- Graduate Diploma: I.D.S.	\$924.00

b. Students' Association Fee

This fee is compulsory for all students with the exception of thou registered exclusively in courses offered in extension centres.

	Per Semester	Per Academia Year
Course Load 3 courses or more Less than 3 courses	\$57.00 \$17.75	\$114.00 \$35.50

c. Medical Fees

Canadian students registered in 3 or more courses and all non-Canadian students (regardless of course load) will be assessed a medical insurance fee at the time of registration. A description of the medical insurance plan is specified in Section 8, Resources and Services, of this Calendar.

Coverage	[∞] Canadian	International
Single	\$96.00	\$413.00
Family	\$208.00	\$813.00

Family coverage is not automatic and must be requested each academic year.

If students have similar or better medical coverage, they may opt out of this insurance plan each year by showing proof of their coverage to S.M.U.S.A., Inc. and signing a medical waiver form on or before 30 September. International students must provide S.M.U.S.A., Inc. with proof of medical coverage by a similar plan valid for the entire academic year. Students who register for the second semester only (i.e. January until April) will have until 31 January to sign a medical waiver.

d. Differential Fee

Any student who is not a Canadian Citizen or a Permanent Resident must pay an international differential student fee. Some exceptions do apply so a detailed description of the differential fee is available from Accounts Receivable - Financial Services.

The fee is assessed on a per course basis; the number of courses taken determines the amount of differential fee charged. The cost per course (i.e. 1.0 credit) is \$842.00.

Examples of 2000-2001 Fee Calculations

Example #1

Canadian Student: 5 Full-Credit Undergraduate Arts Courses

	1st Semester	2nd Semester	Total
Tuition	\$2,105.00	\$2,105.00	\$4,210.00
Medical	96.00	0.00	96.00
Students' Assoc. Fee	57.00	57.00	114.00
Differential	0.00	0.00	0.00
Total	\$2,258.00	\$2,162.00	\$4,420.00

Example #2

International Student: 5 Full-Credit Undergraduate Commerce Courses

	1st Semester	2nd Semester	Total
Tuition	\$2,105.00	\$2,105.00	\$4,210.00
Medical	413.00	0.00	413.00
Students' Assoc. Fee	57.00	57.00	114.00
Differential	2,105.00	2,105.00	4,210.00
Total	\$4,680.00	\$4,267.00	\$8,947.00

ample #3

nadlan Student: One-Half Credit Undergraduate Arts Course in Each Semester

Tuition	1st Semester \$421.00	2nd Semester \$421.00	Total \$842.00
Medical	0.00	0.00	0.00
Budents' Assoc. Fee	17.75	17.75	35.50
erential	0.00	0.00	0.00
Teal	- \$438.75	\$438.75	\$877.50

cample #4

ternational Student: 4 Full-Credit Graduate History Courses

1st Semester	2nd Semeste	er Total
\$2,304.00	\$2,304.00	\$4,608.00
413.00	00.00	413.00
57.00	57.00	114.00
1,684.00	1,684.00	3,368.00
\$4,458.00	\$4,045.00	\$8,503.00
	\$2,304.00 413.00 57.00 1,684.00	\$2,304.00 \$2,304.00 413.00 00.00 57.00 57.00 1,684.00 1,684.00

Example #5

Panadian Student: 5 Full-Credit Undergraduate Arts Program Courses: 4 Arts, 1 Science - e.g. Psychology)

	1st Semester	2nd Semest	er Total
Fuition: 4.0 Arts	\$1,684.00	\$1,684.00	\$3,368.00
1.0 Science	431.00	431.00	862.00
Medical Students'	96.00	0.00	96.00
assoc. Fee	57.00	57.00	114.00
Total	\$2,268.00	\$2,172.00	\$4,440.00

Example #6

Masters of Business Administration First Year of Program - September to April

	Canadian 6 credits	Canadian 2 credits	International 6 Credits
Puition	\$5,208.00	\$1,736.00	\$5,208.00
Medical	96.00	0.00	413.00
Students' Assoc. Fee	114.00	35.50	114.00
Differential	0.00	0.00	5,052.00
Program Fee	500.00	500.00	500.00
otal	\$5,918.00	\$2,271.50	\$11,287.00

Audit Fees

Students auditing courses described in Academic Regulation 2 will be assessed regular tuition and all other compulsory fees exactly as if they were doing the course(s) for credit.

Thesis and Major Research Paper Continuation

Graduate students who have completed the course requirement, but not their thesis or major research paper, must officially register in the normal way and pay a fee of \$462.00 for each academic session in which work on the thesis or major research paper continues. (This regulation is currently under review.)

Special Food

g. Opecial i ccs	
Graduation: Degree or Diploma	\$20.00
Binding of Master's Thesis (3 copies)	50.00
Official Transcript	5.00
(see Academic Regulation 32)	
Special Examination	10.00
Special Examination (2 or more)	20.00
Late Registration	10.00
Academic Appeal	30.00
Identification Cards	5.00

h. MBA Program Fee

This fee supports the many extra curriculum workshops and academic events offered throughout the MBA Program.

New Students	\$500.00
(one-time fee at first registration) Part-time Returning Student	\$75.00
(each academic year to a total of \$500.00)	

Executive MBA Program

Upon acceptance into the program, a \$1,000.00 non-refundable deposit is required to reserve a place in the class and for the preparatory workshop in August. The seat deposit is applied to the first year fee.

Year 1 of two year program	\$16,500.00
Year 2 of two year program	\$15,500.00

Residence Fees

Accommodation and Meal Plan Fees

	Per	Per Academic
	Semester	Year
Single Room		
Meal Plan 1	\$2,375.00	\$4,750.00
Meal Plan 2	\$2,525.00	\$5,050.00
Meal Plan 3	\$2,627.50	\$5,255.00
Meal Plan 4	\$2,830.00	\$5,660.00
Double Room		
Meal Plan 1	\$2,155.00	\$4,310.00
Meal Plan 2	\$2,305.00	\$4,610.00
Meal Plan 3	\$2,407.50	\$4,815.00
Meal Plan 4	\$2,610.00	\$5,220.00
Apartment, Edmund Rice		
Residence-room only	\$1,222.50	\$2,445.00
Senior Suites-room only	\$1,625.00	\$3,250.00

Descriptions of the various residence and meal plans available are specified in Section 8 of this Calendar. Please note that students must pay their residence fees, or make arrangements to do so with Financial Services, before moving into residence.

Residence Withdrawal and Refunds

Students who withdraw from residence and do not simultaneously withdraw from the University, or are dismissed from residence by the University, are not eligible for an adjustment of room fees and will be assessed fees for the entire academic year. The University will use its best efforts to rent the vacated room for the balance of the academic year, and if successful in doing so, will rebate to the student an amount equivalent to the rent received from the new occupant of the room, as well as an adjustment of meal plan fees. 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 15 November in the first semester and 28 February in the second.

Payment of Fees

The University reserves the right to require full payment of all fees at the time of registration. For example, when all or substantially all of Canada Student Loans are released during the first semester, Student Accounts may require full payment of academic year fees.

Students who register by mail during regular registration periods can choose to pay a deposit only. Students who register in person during late registration periods must pay all first semester fees at the time of their initial registration.

Regular Registration - By Mail

A deposit must be paid as part of regular academic registration. (For late registration, full fees are due - see Late Registration below.)

3 courses or more in the first semester	\$200.00
Less than 3 courses in the first semester	\$100.00

Outstanding first semester fees are due no later than 30 September.

b. Late Registration - In Person

Students who have received permission to register late must pay all first semester fees at the time of registration. In special circumstances, the University reserves the right to require prepayment in excess of the first semester portion of tuition and residence charges.

In September, students planning to pay their fees from a Canada Student Loan but who have not received their loan, will be permitted to register if (a) they can provide proof of loan application and (b) they pay the appropriate deposits listed below:

Tuition only (3 courses or more)	\$400.00
Single Room/Meal Plan	\$850.00
Double Room/Meal Plan	\$800.00
Apartment	\$500.00

c. Second Semester Fee Payment

Students continuing their studies in the second semester must pay the balance of all fees on or before 15 January.

d. January Registration

Students who were not registered for the first semester and who register prior to the end of that semester for the second, must pay a deposit of \$200.00 if registering in 3 or more courses, or \$100.00 if registering in less than 3 courses. The balance of fees is due no later than 15 January. Students who register for second semester courses in January must pay all fees at the time of their initial registration.

e. Methods of Payment

Payment can be made by cash, debit card, money order, draft, Visa, MasterCard, or cheque. Cheques, which cannot be post-dated, should be drawn on a Canadian Financial Institution and made payable to "Saint Mary's University". Students who complete regular registration will be able to pay the balance of their first semester fees via the Canadian banking system. Details and the form necessary to use this payment method will be mailed to you together with your Registration Receipt.

f. Unpaid Accounts

Students who have not paid all fees in accordance with 3a, 3b, 3c or 3d above, may have the steps of registration which they have undertaken cancelled at the discretion of the Registrar upon the recommendation of the Manager, Accounting.

- g. The University reserves the right to require full payment of all fees at the time of registration.
- h. Students whose accounts are in arrears will not be permitted to register until the account has been paid in full. Such payments must be made by cash, debit card, money order, certified cheque, Visa or MasterCard.
- 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 any consideration of reinstatement by the Registrar.
- j. The University reserves the right to deny registration privileges to anyone who owes funds to Saint Mary's University for any unpaid service.

4. Late Payment

- a. Students who do not pay first semester fees by 30 September and/or second semester fees by 15 January are subject to late payment charges. The charges are \$5.00 for each business day the account is in arrears to a maximum of \$50.00 per semester or ten percent (10%) of the outstanding balance, whichever is less.
- b. In addition to the late penalty outlined in Section 4a, any account outstanding after 30 September in the first semester and 15 January in the second semester, will be subject to an interest charge of one percent (1%) per month.

Note: Students paying for all, or part, of tuition and fees with any sort of loan should note that the University fee deadlines are applicable, regardless of the form of payment. Late penalty and interest charges

apply equally to all students. Students planning to pay their fees will Canada Student Loan Assistance are strongly encouraged to make application in sufficient time to ensure that the loan will be available prior to the last day for final payment of fees.

- Students whose accounts are in arrears will be denied marks
 transcripts and may be denied graduation.
- d. Students who do not pay their summer school fees are subject late payment and interest charges. Payment due dates are published in the Summer Sessions Registration Book.

Class Withdrawals and Refunds

Note: All course withdrawals are officially processed through the Registrar's Office. Non-attendance in classes does not constitute a official withdrawal. It is not compulsory to attend classes; however, students are still responsible for tuition and all related charges for a courses in which they are registered. Therefore, official notification must be given to the Registrar's Office for all course withdrawals. (See Academic Regulation 16 for further details).

Students should note that the deadlines for academic withdrawal different those for financial adjustment and possible refund of tuition and related fees.

- a. Students who officially withdraw prior to the first day of classed will receive a refund of any fees paid, less a \$25.00 administrative processing fee.
- b. Students who officially withdraw once the official change of registration period is over will be eligible for an adjustment of tuition and differential fees on a proportional basis calculated over a six we period. The following schedule was in effect for 2000-2001.
 1st Semester Tuition and Differential - 2000

Week ending

- 23 September refund is 6/7 or 85.8% of tuition and differential 30 September refund is 5/7 or 71.5% of tuition and differential
- 07 October refund is 4/7 or 57.2% of tuition and differential
- 14 October refund is 3/7 or 42.9% of tuition and differential
- 21 October refund is 2/7 or 28.6% of tuition and differential
- 28 October refund is 1/7 or 14.3% of tuition and differential

2nd Semester Tuition and Differential - 2001 Week ending

- refund is 6/7 or 85.8% of tuition and differential
- refund is 5/7 or 71.5% of tuition and differential
- refund is 5/7 or 71.5% of tuition and differential
- refund is 4/7 or 57.2% of tuition and differential
- refund is 3/7 or 42.9% of tuition and differential
- refund is 2/7 or 28.6% of tuition and differential
- refund is 1/7 or 14.3% of tuition and differential

If the adjustment of fees will result in a refund, the student must applied for the refund directly to Accounts Receivable, Financial Services.

- c. Students who leave the University without officially withdrawing and who subsequently officially apply for and are granted a retroactigwithdrawal, will be charged a \$50.00 administration processing fee in addition to the regular University fee assessment to the date established for official withdrawal.
- Fees and withdrawal scales as outlined above do not apply to the Executive Master of Business Administration degree or to the PhD program in Management.

6. Scholarships, Bursaries, and Sponsorships

a. 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 bursard 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.

Students whose fees are to be paid by government or some other consoring agency (excluding Student Loan Programs) are required to seen a signed statement, certificate or other appropriate supporting current when registering.

Miscellaneous

Students will be charged for damage to University property.

Cheques returned by the bank are subject to a \$10.00 charge.

placement of such cheques and future payments by the payee must
by cash, debit card, money order, certified cheque, Visa or
sterCard. N.S.F. cheques are considered a serious offence and
ay result in de-registration.

Income tax receipts will be automatically mailed to all students by middle of March. Duplicate receipts will cost \$2.00 and must be dered from Accounts Receivable, Financial Services.

Students may be entitled to a tuition discount if they, their pouse, or parents are employees of the University. In order to beeive this tuition discount, the University employee must apply to the

Executive Master of Business Administration degree.

e. Effective 1 September 2000, seniors will be granted full tuition waiver only if they meet both of the following requirements: they have received a senior tuition waiver from the University for courses taken prior to 1 September 2000 and they are Canadian citizens or permanent residents.

f. Parking on Campus

Residence Parking

Underground Tenants

\$21.00 per month (\$200 per year)

Underground Non-Tenants

\$25.00 per month plus HST

Edmund Rice Residence Parking

(No yearly rate) \$140.00 for eight (8) months

Other Parking

\$140.00 per year (HST

included)

g. 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 with the applicable service charges deducted.

Student Awards and Financial Aid Programs

Inition

scholarship - An award granted on the basis of academic ment.

This subsection is indexed for easy reference:

A Awards Administered by Saint Mary's University

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	Students Only)	208

Awards Administered by the Donor (External Awards)

. Canada Student Loans

Awards Administered by Saint Mary's University

Entrance Scholarships

Canadian Applicants

- Each year Saint Mary's University awards a number of entrance scholarships to high school students throughout Canada.
- Students are automatically considered for entrance scholarships if they have achieved a minimum of 80% average as calculated by the dmissions Office.
- Entrance scholarships are valued up to \$3,500.00 and are nonenewable.
- Presidential scholarships are valued at \$7,000.00 and are enewable for a total of \$28,000.00. Students ranked number one in heir graduating class are considered and must provide a resume flong with a letter of recommendation from their school.
- Santamarian Scholarships are valued at \$4,000.00 and are enewable for a total of \$16,000.00. Students highly ranked in their graduating class are considered.

Note: Recipients of Presidential and Santamanan Scholarships are not eligible also to receive achievement or named scholarships.

 The deadline for scholarship consideration is March 15. Awards are announced after April 15.

International Applicants

- Each year Saint Mary's University awards a number of entrance scholarships to International high school students.
- Students are automatically considered for entrance scholarships if they have achieved a minimum of 80% average as calculated by the Admissions Office.
- Entrance scholarships are awarded up to \$3,500.00 and are nonrenewable.
- The deadline for scholarship consideration is March 15. Awards are announced after April 15.

Contact the Admissions Office for more information: Tel. 902-420-5415

2. Achievement Scholarships (undergraduate)

Conditions: Candidates must qualify according to the regulations for scholarship holders outlined below. No application is required. Value: \$500.00 to \$3,000.00.

Duration: One year. Students who qualify for the Dean's List are considered each year as they progress satisfactorily toward a FIRST undergraduate degree.

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. Such 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 University Advancement.

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. A separate brochure, Scholarships, Bursaries, and Government Loans, provides descriptions of individual awards.

The scholarship application deadline for the 2001-2002 academic year is 25 May 2001.

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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 late March 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 requalify.
- 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.
- d. In order to be considered for an undergraduate scholarship, students must have completed at least five (5.0) credits 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 five (5.0) credits in order to be eligible for the scholarships for that academic year. An exception will be made for graduating students who require only three (3.0) or more credits 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 rehewal 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. Scholarships for Part-Time Students

There are achievement scholarships available for students studying on a part-time basis. Information is included in the scholarship package available from late March until the 25 May deadline from the Financial Aid Office. Continuing Education will also have packages available for those unable to get to the University during regular office hours.

5. 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.

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.

Awards Administered by the Donor (External Awards)
For information concerning these external awards application

procedures, eligibility, and addresses, please contact the Financial A Office or by accessing Student Services through the Saint Mary's University homepage.

Canada Student Loans Plan

Students requiring financial assistance to help meet their education expenses should apply for Canada Student Loans. (Exception: Residents of Quebec apply for Quebec Student Loans.) Application made to the province in which the student is a resident.

Students are encouraged to apply before 30 June (30 May for Quebe to avoid late payment charges at the University. Applications are available directly from the provincial Student Aid Offices. Nova Scott 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 Scotial and New Brunswick will be sent their notification and documents in 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 we as relative information or special instructions pertaining to each province. Funds will be held at the Business Office, McNally Main, us 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 parttime 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 Inquines
Voice Response Unit 902-424-7737
TDD 902-424-2058
Toll free in Nova Scotia
1-800-565-8420 General Inquines
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, Ontano, and Quebec only)

1-800-667-5626 (Atlantic Provinces, Ontano, 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 Box 4500 **Bunder Bay, Ontario** 77B 6G9 307-343-7260 800-465-3013 (within Ontario) //osap.gov.on.ca

Prince Edward Island

Dudent Aid Office 02-368-4640 ://www.gov.pe.ca/educ/resources/stu_aid/ ex.asp

webec

Frection generale de l'aide anciere aux etudiants 35, de la Chevrotiere mebec, Quebec **B1R 5K9** 8-643-3750 hour automated service 514-864-4505 or 8-646-4505 ://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 Stafford Loans Program

Citizens of the United States may be eligible for student loans from their state to assist the funding of their post-secondary studies. Information and/or application forms may be obtained from the State Higher Education authority or state banks. Financial Aid Forms (FAF) must be submitted in order to complete state loan assessments. Saint Mary's University school code for U.S. loans is 008364. For FAF forms, the school code is 0958.

Note: Canadian schools do NOT approve loans. The FAF or Free FAF will provide a Student Aid Report (SAR) for bank loans from the U.S.A.

Post Graduate Scholarship Assistance

Students whose university performance gives promise of successful graduate studies should seek advice on the availability of fellowships and scholarships. Interested students should contact the Secretary to Senate, Room MS113, McNally Building, Saint Mary's University and the academic unit in which they wish to study.



The Crest of Saint Mary's University. See Description on page 9 of this Calendar.

Centres,
Institutes
and
Special Programs

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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:

- a mechanism for interdisciplinary research relating to the environment:
- opportunities for interaction of faculty and departments in a common theme; and
- 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: L. Vasseur. Phone: 902-496-8234; fax: 902-420-5261; e-mail: Liette. Vasseur@stmarys.ca.

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 SMUBQC in its operations:

- 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 counseling 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 counseling services including business planning, market and

promotional planning, financial statement preparation, community development planning, customized training, and special projects.

SMUBDC's main office is located in downtown Halifax at 1546
Barrington Street close to Spring Garden Road. A second oncampus office also exists in the Sobey Building (SB 248-249).
For more information about SMUBDC or its Business Consulting
course, students can drop by either office; visit SMUBDC's
website at www.stmarys.ca/smubdc; or call SMUBDC at 902-4292992. We look forward to working with you.

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, audiovisual materials, theses, Atlantic Canada bibliographies and relevant manuscripts, periodicals and articles, and is a distribution point for all Gorsebrook publications.

Research Activities and Programs

The Gorsebrook is always looking to develop new research initiatives. Ongoing projects include A Labrador Project which involves a research partnership between the GRI, the Innu Nation and Environment Canada. The Minas Environs Project is another program involving a multidisciplinary approach to an archaeological landscape. A Literacy Project involves the identification and documentation of possibilities for collaboration between universities, museums, and literacy programs in Nova Scotia. 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 e-mail: gorsebrook@stmarys.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

powledge consonant with their characteristic functions and **lativities**, and with their essential complementarity.

- A moral crisis deriving from the divorce of personal morality from knowledge on the one hand, and from personal and social being on the other.
- A crisis of leadership in all aspects of human activity, priving from a widespread inability to make any meaningful innection between knowledge and judgement.
- A crisis in the area of political freedom which derives, at bast in part, from a loss of the sense of the historical relationship between moral values and the winning and defence of that eedom.

The Institute does not attempt to grapple with these problems as a self-sufficient entity, but acts rather as a catalyst through which he human and physical resources of Saint Mary's and other iniversities are brought to bear upon them.

Institute Activities

- The coordination of the work of the members of the Institute in the various disciplines.
- Research on all aspects of the relationship between inowledge, values and freedom, as well as upon urgent intemporary problems in which values are deeply involved.
- The advising of students who wish to supplement their hajors with problem and theme oriented core programs.
- Liaison with faculties and departments with the object of implementing and improving such programs.
- The advising of students who wish to follow a program lelated specifically to human values.
- The arranging of special lectures and symposia designed to explore all aspects of knowledge, values and freedom.
- The editing of The Vital Nexus, a journal concerned with the relationships between conscience, justice, and freedom.
- The production of video and sound tapes on values problems for distribution to the University Community and to the bublic at large.
- The organizing of interdisciplinary symposia at the annual meetings of the Canadian Learned Societies.
- 10. The establishment of a cleaning house of information on buestions 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 414-A, McNally Building. Contact numbers are 902-420-5753; fax: 902-420-5181; and email: a.monahan@shark.stmarys.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 hations. 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 apportunities for its students.

Demonstrating Saint Mary's University's commitment to the Internationalization process, an office responsible for International Activities was established in 1992. The role of this 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 is also involved in coordinating student exchange programs, international group programming, and international marketing.

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@stmarys.ca or heidi.taylor@stmarys.ca.

The International Centre

The International Centre is an integral part of the internationalization of Saint Mary's. It houses the office of the International Student Advisor (ISA), a lounge, and a collection of study abroad material. The International Centre is located on the third floor of the Student Centre at Saint Mary's University

The International Student Advisor provides support, assistance and advice to international students at Saint Mary's and strives to ensure that international students fully participate in university life. The Centre offers a range of services to students, including counseling, orientation, information sessions, and cultural activities.

International Student Advisor:

Alana Robb

Phone: 902-420-5436:

e-mail: international.centre@stmarys.ca;

web site: http://www.stmarys.ca/administration/international

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, neutron activation analyzers and various other instruments for chemical analyses. The Centre is also used as a training facility for advanced undergraduate and graduate students. 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@stmarys.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. This support 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.

ESL Teacher Training

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 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 (phone), 902-420-5122 (fax), and tesl@stmarys.ca (e-mail).



At the official opening of the Centre for New Students - Greg Ferguson, Director of Admissions; Adam Dennis, first year student; Amy Smith and Heather Maxwell, Admissions Office.



The President and his "volunteers" - students, faculty, and staff members - serving new students at the President's Dinner, 5 September 2000.

Resources And Services

To the second

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 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. These programs include taking part in Alumni Weekend, the Christmas Daddies Telethon, Student/Alumni Mixers, Campus Tours, Exam Survival Packs as well as various other activities both on campus and in the community. In addition, the Student Alumni Association and the Saint Mary's University Bookstore provide an on-site framing service for parchments 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@stmarys.ca.

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 Athletic Union (CIAU). 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.

Club (Men)

Baseball, Rugby, Volleyball.

Club (Men and Women)

Badminton, Fencing, Racquetball, Self-Defence, Squash, Tennis.

Club (Women) Cheerleaders.

Intramural (League)

Basketball*, Coed Basketball, Coed Soccer, Coed Softball, Coed Volleyball, Touch Football*, Hockey, Men's Soccer, Men's Softball, Volleyball*.

*men and women

Intramural (Tournament)

Badminton, Ball Hockey, Basketball, 3/3 Basketball, Coed Broomball, Curling, Golf, Racquetball/Squash, Table Tennis, Tennis, Women's Ice Hockey.

Recreation (Unstructured)

Badminton, Basketball, Hockey, Jogging, Racquetball, Skating, Squash, Table Tennis, Tennis, Tai Chi, Volleyball, Weight training, Yoga.

Recreation (Instructional)

Boxercise, Boxing, Chinese Relaxation Exercises, Fencing, Fitness Classes, Jazz Dance, Karate, Personal Training, Pilates, Racquetball, Running Clinics, Social Dance, Squash, Step Training, Tai Chi, Tennis, Walking Clinics, Weight Training, Women's Self-Defence.

On-Campus Facilities

The Tower
Alumni Arena
Huskies Stadium (artificial field and 400 meter track)
Tennis Courts

Saint Mary's Athletics and Recreation Tower was opened in June 1987. This centre houses a double-sided gymnasium with retractable seating, running track, racquetball and squash courts, weight training room, multi-use exercise room, sauna, whirlpool, 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

muuctees			
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		
1998	Bob Boucher Jim Pineo 1973 Football Team		
1999	Jamie Bone Elizabeth A. Chard Bob Warner 1964 Football Team		

2000 Roy Clements
Mickey Fox
Kathleen Mullane

Flease feel welcome to view the displays during The Tower's Reaction hours.

Bookstore

Communities

Culturated on the second floor of the O'Donnell-Hennessey Student Control is open year round to serve the local University Communities

The bookstore's prime role is to supply textbooks for current bourse offerings. In addition to textbooks, the bookstore carries an array of supplies, from pens to calculators, as well as an assortment of sundry items, including imprinted giftware, lassware, and crested clothing.

Buring the academic year, various services are available:

Used Book Buy-Back - At the end of both semesters, the bookstore conducts a buy-back of used books. Half price is paid for re-adopted textbooks, lesser amounts for books no longer used at Saint Mary's. Watch for our advertisements in *The* Journal and campus posters.

Ring Days - Saint Mary's rings may be ordered at the bookstore any time of the year. Special discounts apply during ring days and on Wednesdays from 4:00 p.m. to 6:00 p.m. Rings are guaranteed for life.

Custornized Clothing - Orders can be placed for all types of shirts and jackets for special groups or societies.

Special Orders - Personal copies of any book in print can be ordered through the bookstore. Customers pay list price plus postage.

Parchment Framing/Lamination - Customized Saint Mary's frames are available in wood and in brass. Parchments may also be laminated.

The bookstore is open Monday, Thursday, and Friday from 9:00 a.m. to 4:30 p.m. and every Tuesday and Wednesday from 9:00 a.m. to 6:00 p.m. There are extended hours at the beginning of each semester. Telephone: (902) 420-5562; fax: (902) 420-5006.

Cultural Activities

Performing Arts

The performing arts program at Saint Mary's University brings a cross-section of excellent musicians and entertainers to the campus each season. From chamber orchestras to modem jazz, concerts provide musical adventure for every preference.

Artist-in-Residence

The Artist-in-Residence program is designed to cover the spectrum of the arts with the intention of developing a varied program for both the University and the community at large. Not necessarily limited to musicians and the fine arts, the program is designed on a broad scale and intended to enrich the lives of both students and citizens.

Saint Mary's Artist-in-Residence program has included such outstanding artists as Israel-born pianist Shulamit Ran; bassoonist George Zukerman; Halifax painter C. Anthony Law, and Cape Breton native and New York based vibraphonist Warren Chiasson; and presently, watercolorist and printmaker J. R. Leighton Davis.

In the past the artists have conducted instructional sessions with the University's music program, workshops for community musicians and artists, the local school music program, and various performing sessions including public concerts.

Art Gallery

Designed and constructed to National Gallery of Canada

standards, Saint Mary's University gallery is located on the ground floor of the Ignatius Loyola Building.

Opened in October 1971, the gallery was the first University Art Gallery in Halifax. The initial exhibition consisted of sculptures and graphics by Eskimo artists, and since then approximately 160,000 visitors have attended 700 exhibitions and other cultural events.

The gallery also sponsors lectures and slide demonstrations on the history of Canadian Art, and life drawing and painting classes by the University Artist-in-Residence.

The Halifax public as well as the University Community has been able to view the work of internationally known artists at Saint Mary's University; for example: an exhibition of works by George Roault, Wilhelm Webels, Otto Dix, and Harold Town; an exhibition of contemporary Christian Art, Ars Sacra '77, which included works by Graham Sutherland, Bernard Buffet, Salvador Dali, Carol Fraser, and Bruno Bobak; an exhibition, In Memoriam, of the works of Miller G. Brittain; for the first time in Canada, an exhibit by Friedensreich Hundertwasser, the Austrian Master of Omamentalism; and, more recently, a display of primitive art and artifacts from Papua, New Guinea.

A permanent collection of Nova Scotia pottery exists at Saint Mary's University Art Gallery in which potters such as Alma and Ernst Lorensen and Max Roulston are represented. The University Art Collection has been made possible through the generosity of private donors and organizations who have enjoyed the facilities of the Art Gallery.

The overall responsibility for the Art Gallery is that of the Director of External Relations.

Office of Graduate Studies and Research

The Office of Graduate Studies and Research was established in December, 1998. In collaboration with the Vice-President (Academic & Research), the Deans, Chairpersons, and Coordinators, it maintains general administrative oversight for graduate studies and quality control of graduate programs. It oversees the admission process, the appointment of external examiners for theses, and administration of a comprehensive internal and external process of program review to ensure the maintenance of high standards of program structure and delivery.

For research, the Office provides support for the academic research of the University by organizing workshops and overseeing the process and submission of research grant applications. The Office maintains an ongoing liaison with granting agencies, industrial partners, and research administrators of other universities. It publishes regular newsletters and the Annual Report of Scholarly Activity.

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 800 workstations are directly connected through ethemet to the high speed campus network. Computers on the campus network include Novell, Windows NT, 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, and determine their exam schedule over the intranet. Electronic-mail is available for campus and internet usage.

The central academic computer is COMPAQ Alpha running the Open VMS operating system (Husky1.stmarys.ca). Programing languages available include: BASIC C, COBOL, FORTRAN, PASCAL, and JAVA. Workstations in computer labs use Microsoft Windows NT. Applications include: Maple, Minitab, SPSS, SAS, TSP (Time Series Processor), Shazam Econometric Program, TK Solver, MatLab, IMS Office, Visual Studio, and Netscape Communicator. Several survey data bases (Stats. Can.) are on-line.

There are ten general access computer labs containing over 300 workstations. All micro labs have high speed access to NT servers for software 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. There are also several departmental computer labs. Instructors can demonstrate actual computer system usage in most labs and in several classrooms, using overhead computer data projection systems.

Easy, fast access to information technology has been incorporated into the new Sobey building and the renovated Loyola building. These buildings have been completely wired with over 1000 computer connections. Classrooms and offices have high speed access to the campus network. Several computer labs have been located in the buildings. Most teaching classrooms have multi-media, data presentation equipment, as well as high speed computer access for the instructors' workstations.

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. Some chemistry labs use analogue to digital data logging computer systems.

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 voice communications systems, and the Help Desk. They provide minor 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@stmarys.ca.

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 will facilitate the on-going work of the Quality of Teaching Committee and become a repository for the Committee's collection of instructional materials. It will link 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 will provide opportunities for professional development in teaching to full and part time faculty.

Language Learning Centre

The Language Learning Centre, located in MM201, is a modern resource centre designed to fulfil a wide variety of functions: duplicating and listening to language-learning audio tapes, viewing of second-language television programs and videos, reading from an extensive collection of national and international magazines, writing papers or improving language skills on computers equipped with sophisticated language software, cruising the internet for language and cultural sites, or using the many dictionaries and reference books to prepare an assignment

Patrick Power Library

The Patrick Power Library houses over 390,000 volumes. As well as books and journals, the collection includes electronic indexes full-text databases, corporate annual reports, microforms, Canadian Government documents, the Ferguson Library (audio and electronic texts for print handicapped students), rare books, special collections, and Saint Mary's University Archives. As a member of the Novanet Library Consortium, the Patrick Power Library enables students to access the combined holdings (over two million items) of most universities and colleges throughout Nova Scotia. The Novanet Express service provides books and photocopies from any Novanet library within three working days.

Students will find quiet study space and helpful, knowledgeable staff who are eager to help students get the most of our extensiver resources and services. Reference services are available more than 90 hours each week during each semester. An extensive library research instruction program provides classroom and individual instruction for students to learn to use both traditional and electronic information resources. Many of our electronic resources are accessible through the campus-wide network, and are thus available virtually around the clock.

For more information on library collections, services and hours, please call (902) 420-5544, or visit us on the web at http://www.stmarys.ca/administration/library.

Observatory

The Rev. Michael W. Burke-Gaffney Observatory at Saint Mary's University was opened in 1972.

The revolving aluminum 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.stmarys.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.

The Observatory 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.

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,

Phancial Aid Counselling, Health Services, Student Employment Pentre, University Residences and Food Services, International Student Advising, and Child Care Services. Student Services rovides a wide range of services and programs that support **Mudent** development.

Chaplaincy

Because of its traditional commitment to Christian education, Saint Mary's University continues to emphasize personal and eocial values derived from the experience of Christian civilization. is students and teachers represent a diversity of cultural and leligious 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 Rice Chapel. In addition, a special University Mass is held every Sunday in Canadian Martyrs' Church located on the edge of campus. Protestant and Jewish services are available in nearby churches and synagogues.

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 problems. Both male and female counsellors work with students to help them feel better about themselves and develop healthy ways of solving problems. Counsellors are available during the day to see students; however, there is no after hours coverage.

Individual Counseling for:

Personal Issues **Educational Planning** Career Counseling

Group Programs:

Anger Awareness Adult Children of Alcoholics Overcoming Public Speaking Anxiety Career Decision Making Artbreak Relaxation Coping with the Holidays Career Orientation Sessions

Other Services:

Choices CT (a computerized career exploration program) Myers-Briggs Type Indicator Strong Interest Inventory SMU SEKSS (Sexual Education Keeping Students Safe) SMU DRAFT (Drink Responsibly and Feel Terrific) Team (5th Floor, Students Centre: 496-8226) Minimizing Midterm Madness - Study Skills Program

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. Volunteers also offer information on how to choose a major, campus life, study skills and programs offered for students. Interested students should drop by the SMUSP Office during office hours or call 496-8245.

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 Sexual Harassment 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 provides 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, and will remain strictly confidential.

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 argumentative 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.liberatedleaming.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/attcentr/attantic.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 the 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 Health Insurance Committee decides which insurance company will carry the health plan and they, along with the insurance company, are responsible for the administration of the plan. Students with similar or better coverage may sign a medical waiver and must provide copies of their own coverage for verification purposes, if they wish to opt out of Saint Mary's Health plan. The deadline to do so is 30 September each year. Waivers may be signed at the Students Centre Desk during August and September.

1. Full-Time Students (Canadian and Non-Canadian)
An extended health care plan arranged by the Students' Health
Insurance Committee is compulsory for all full-time international
students. Students who are already covered by a similar plan
may opt out. (See Financial Information section of this Calendar
for details.) This plan includes such benefits as prescription
drugs, ambulance service, accidental dental, physiotherapy, life
insurance, etc. For information on premiums, please consult the
Financial Information section of this Calendar. The deadline for
providing proof of coverage and signing a medical waiver form
annually is September 30 at the Students Centre Desk.

Full-Time Canadian Students

All Canadian students, with the exception of those residing in the Yukon or Northwest Territories, are either covered or have access to basic hospital and medicare coverage in their provincy of domicile. It is the students' responsibility to see that they are in good standing with the Provincial Hospital Insurance Commission in the province of origin. If the province requires monthly payments, the students must make certain they are properly enroled and maintain payments.

Students registered as "thesis only" must request medical coverage if they require it.

Non-Canadian Students

Students not eligible for basic Canadian hospital and medicare coverage must be insured by the Blue Cross comprehensive health and hospital plan which has been arranged through the Students' Association, Inc. For information on the premiums, please consult the Financial Information section of this Calendar.

Students who provide proof at the time of registration that they have the equivalent to Nova Scotia's Medical Services Insurance (M.S.I.) are exempt from the non-Canadian portion of the University's compulsory comprehensive coverage.

2. Part-time Canadian Students

Part-time Canadian students are not eligible for either the extended or the comprehensive health plan.

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.

Family 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. 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.

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@stmarys.ca.

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. Every student is automatically a member of the Association.

The goal of the Association is to promote and represent the interests of its membership. The Association seeks to foster understanding and fellowship among all sectors of the University Community as a whole. It also coordinates artistic, literary,

educational, social, and recreational activities for Saint Mary's students.

The Association is governed by a sixteen member Student's Representative Council. The Association organizes scores of activities for students as well as provides a service and representative base for its members.

The extracumcular organizations for students are recognized by the University. Students who represent the University in any public activity - dramatics, debating, oratorical contests, or athletic competition - or who hold office in any student organization, must be in good academic standing at the time of their election or appointment.

A detailed description of student societies is available in the Student Handbook which is distributed by the Students' Representative Council in September.

The Husky Safety Patrol Program is a service provided by SMUSA in cooperation with Saint Mary's University Security to members of the University community. By ensuring that those students who work or study late on campus can get home safely, it contributes to a safer environment. The Husky Patrol Vans are staffed with qualified Saint Mary's students. The vans operate between the hours of 6:30 p.m. and 12:00 a.m., Sunday to Friday inclusive. This personal service operates within the Halifax Central and Halifax South areas; also on a set schedule to the Bayers Road Shopping Centre.

Charter Day

It takes a lot of different things to make the university experience a complete one. Along with classes, exams and academic standards, there is a social side of university life. Each year a number of interested people take time from their busy schedules to get involved in student affairs and to take part in student government, societies and clubs. Annually, a Charter Day Awards Committee solicits nominations for its 15 awards from members of the University Community. Awards are presented at the Charter Day Dinner held toward the end of March. Traditionally it marks the end of extracumcular activities for the academic year. These awards are:

Certificate of Merit/Certificate of Distinction
Freshman of the Year
Sophomore of the Year
Junior of the Year
Senior of the Year (may include a Silver "M" or Gold "M")

Literary "M"

This is granted to those students/faculty for literary contribution to the University.

Honorary Gold "M"

The highest award granted non-students for their contributions to student affairs at the University.

Silver "M"

The second highest award granted by the Students' Association to those graduating or graduate students who have excelled in extracurricular activities in the area of student affairs during their stay at Saint Mary's.

Gold "M"

The highest award granted by the Students' Association to those graduating or graduate students who have given outstanding contributions and have excelled in extracurricular activities in the area of student affairs during their stay at Saint Mary's.

Society of the Year/Most Improved Society of the Year An award granted to the chartered society at Saint Mary's University who is deemed to have made an outstanding contribution to student activities during the preceding year.

Rev. J. J. Hennessey, S.J. Medallion

This award is presented to that student who is deemed to be the greatest contributor to extracurricular activities and has exhibited the spirit of being an outstanding Santamarian over the preceding year. If the recipient is a graduate student, a Silver or Gold "M" may be awarded also. It is named for the late John J. Hennessey S.J., the legendary Dean of Men at Saint Mary's from 1961-1981.

Student Leader

The award presented to the student at Saint Mary's who has shown the greatest leadership abilities during the preceding year. If the recipient is a graduating student, a Silver or Gold "M" may also be awarded.

James Ryan Memorial Award

Given to that member of the University Community who has given outstanding service to SMUSA.

Harold G. Beazley Award

Presented to the individual or group external to the University who has given the greatest assistance to SMUSA.

Kendon Matheson Memorial Award

This award is given to the student whose quiet contributions have gone unnoticed while at Saint Mary's.

Academic Officers and Faculty Chancellor, Deans, and Professors Emeritus/Emerita Awards to Faculty Administrative Officers

Section

9

Academic Officers and Faculty

Academic Officers

Vice-President (Academic and Research)

Seaman, Andrew T., B.A. (Mount Allison), M.A. (Dalhousie), Ph.D. (Dublin), Professor of English

Faculty of Arts

Larsen, Michael J., B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Toronto), Dean of Arts, Acting Dean of Education and 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

Dixon, Paul S., B.A. (New Brunswick), M.Math., Ph.D. (Waterloo), Dean and Associate Professor of Finance and Management Science

Van Esch, Linda, B.Sc. (Hons.) (Calgary), M.A., Ph.D. (York), Associate Dean and Associate Professor of Marketing

Faculty of Science

Richardson, David H. S., B.Sc., M.Sc. (Nottingham), M.A., Sc.D. (Tnnity College, Dublin), D.Phil. (Oxford), Dean and Professor of Biology

Faculty of Education

Larsen, Michael J., B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Toronto), Acting Dean; Dean of Arts; and Professor of English

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), Assistant Professor of Religious Studies

Ahooja-Patel, Krishna, B.A. (Aligarh), Ph.D. (Geneva), Adjunct Professor of International Development Studies

Akbarl, Ather H., B.Sc., M.B.A. (Karachi), M.A., Ph.D. (Simon Fraser), Associate Professor of Economics

Almudevar, Anthony L., B.Sc. (Concordia), M.Sc., Ph.D. (Toronto), Assistant Professor of Mathematics

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 Finance and Management Science

Amirkhalkhall, Saleh S., B.A. (Shiraz), M.A., Ph.D. (Dalhousie), Professor and Chairperson of the Department of Economics

Anderson, Gall, B.Sc. (Manchester), M.P.M., Ph.D. (Simon Fraser), Adjunct Professor of Biology

Anoke, William, Dip. Mech. Eng. (University of Science and Technology, Ghana), M.B.A./M.Eng. (Widner), Ph.D. (Pennsylvania State), Adjunct Professor of Finance and Management Science

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

Armstrong, Stanley A., A.B. (Brown), B.D. (Harvard), M.A., Ph.D. (Yale), Associate Professor of Religious Studies

Arseneau, D. Therese, B.A. (St. Francis Xavier), M.Phil, Ph.D. (Oxford), Associate Professor of Political Science

Arya, Pyare L., B.A., M.A., Ph.D. (Delhi), Professor of Economics

Asp, Ellssa, B.A., M.A., Ph.D. (York), Associate Professor of English

Badawi, Jarnal A., B.Comm. (Ain-Shams), M.B.A., Ph.D. (Indiana), Associate Professor of Management

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), Assistant Professor of Biology

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), Associate Professor of English

Bateman, David H., B.B.A. (New Brunswick), M.B.A. (Dalhousie), C.A., Associate Professor of Accounting

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; Coordinator of Asian Studies

Bell, Sandra J., B.A., M.A. (Western Ontario), Ph.D. (Toronto), Associate Professor of Sociology and 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

Berno, Bob, B.Sc. (Waterloo), M.Sc. (British Columbia), Ph.D. (Windsor), Assistant Professor of Chemistry

Blair, June, B.A. (Hons.), M.A., Ph.D. (York), Assistant Professor of Philosophy

Boabang, Francis, B.A., M.Sc. (Ghana), M.A. (Saskatchewan), Ph.D. (Simon Fraser), Associate Professor of Finance and Management Science

Bowlby, Paul W. R., B.A., M.A., Ph.D. (McMaster), Professor and Chairperson of the Department of Religious Studies and Coordinator of Image Studies

Boyd, R. Gavin, B.A. (Melbourne), Adjunct Professor of Management

Boyd, Susan C., B.A. (California at Santa Cruz), M.A. (Antioch), Ph.D. (Simon Fraser), Associate Professor of Sociology

Boyle, W. Peter, B.Sc., Ph.D. (Queen's, Belfast), Professor of Engineering

Bruce, Darryl, B.Comm. (McGill), M.Sc., Ph.D. (Pennsylvania State), C.A., Professor of Psychology

Butler, Malcolm N., B.Sc. (Hons.) (McMaster), Ph.D. (California Institute of Technology), Associate Professor of Astronomy and Physics

Byers, Michele, B.F.A. (Concordia), B.S.W., M.S.W. (McGill), Ph.D. (Toronto) Assistant Professor of Sociology

Byrne, Cyril J., O.C., B.A. (St. Dunstan's), M.A. (National University of Ireland), M.A. (Oxford), Ph.D. (Toronto), Professor of English and Coordinator of Irish Studies

Cameron, Gerald R., B.Sc. (Hons.), M.A. (Guelph), Adjunct Professor of International Development Studies

Cameron, James E., B.A. (Queens), M.A., Ph.D. (York), Assistant 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), Associate 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 Global Business Management

Charles, Tony, B.Sc. (Hons.) (Carleton), Ph.D. (British Columbia), Professor of Finance and Management Science and Environmental Studies

Chauvin, Guy, B.Comm. (McGill), M.A. (Dalhousie), Ph.D. (Trinity College, Dublin), Assistant Professor of Political Science

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 of Accounting

Chesley, G. Richard, B.Comm. (Mount Allison), M.A., Ph.D. (Ohio State), Professor of Accounting

Chew, Milton, B.S. (Juniata College), M.S., Ph.D. (Carnegie Institute of Technology), Associate Professor and Chairperson, Department of Finance and Management Science

Christiansen-Ruffman, Linda, B.A. (Hons.) (Smith College), Ph.D. (Columbia), Professor of Sociology and Graduate Coordinator, Women's Studies

Clarke, David, B.Sc., M.Sc. (Queen's), Ph.D. (New Mexico), Associate Professor of Astronomy and Physics

Cleary, Sean, B.A. (Acadia), B.Ed. (St. Francis Xavier), M.B.A. (Saint Mary's), Ph.D (Toronto), Associate Professor of Finance and Management Science

Coley, Alan A., B.Sc. (Hons.) (Sheffield), M.Sc. (Cambridge), Ph.D. (London), Adjunct Professor of Astronomy and Physics

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. (Laurier), Assistant Professor of Geography

Cosper, Ronald L., B.A. (Purdue), M.A. (Cornell), Ph.D. (Rutgers), Professor of Sociology and Criminology and Coordinator of Linguistics

Crocker, Diane, B.A. (Memorial), M.A.(York), Lecturer in Sociology and Criminology

Crooks, Shelagh, B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Edinburgh), Associate Professor and Chairperson of the Department of Philosophy

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Walter, M. Susan, B.A., M.A., Phil.M. (Toronto), Assistant Professor of Anthropology

Wang, Muhong, B.A.Sc. (Xian Jiaotong), M.A.Sc. (Xian Jiaotong), Ph.D. (Waterloo), Associate Professor of Finance and 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), Associate Professor of Astronomy and Physics

Whalen, Terrence A., B.A. (Saint Mary's), M.A. (Melbourne), Ph.D. (Ottawa), Professor of English

Whalen, Thomas E., B.A. (California), M.A. (British Columbia), Ph.D. (Dalhousie), Adjunct Professor of Finance and Management Science

White, Michael J., B.Sc. (Hons.) (McMaster), Ph.D. (British Columbia), Associate Professor of Biology

Wicks, David, B.Comm. (Carleton), M.B.A., Ph.D. (York), Associate Professor and Chairperson of the Department of Management

Young, George F. W., B.A. (Harvard), Ph.D. (Chicago), Professor and Chairperson, Department of History

Young, NIcola, B.Comm., M.B.A. (Dalhousie), F.C.A., Associate Professor of Accounting

Zelenietz, Martin C., B.A. (Northeastern Illinois), M.A. (Manitoba), Ph.D. (McMaster), Adjunct Professor of Anthropology

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Dougherty, Frank P., B.Comm. (Sir George Williams), M.Sc. (Clarkson College of Technology), Ph.D. (Pennsylvania State), C.A., Professor Emeritus of Accounting

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

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. (LeMoyne), 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

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

Rojo, Alfonso, B.Sc. (Valladolid), M.Sc., D.Sc. (Madrid), Professor Emeritus of Biology

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. (Salesion 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 Ementus of Science

Young, John C. O'C., B.Sc., Ph.D. (London), M.B.A. (New York), Professor Emeritus of Chemistry

Awards to Faculty

Annually there are two prestigious awards presented to members of oulty.

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 \$1,000. 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)

1992 Dr. Francis Phillips (Education 1993 Dr. Janet Baker (English)

1994 Dr. Cyril Byrne (English)

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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)

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 detailed nomination procedure has been delineated whereby each Dean of Faculty may select one member of his Faculty who has been nominated by the 15th October, 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 Senate Research Committee, 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 Convocation together with a cheque for \$1,000. 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 Tumer (Astronomy)

1998 Dr. Colin Howell (History)

1999 Dr. Georgia Pe-Piper (Geology)

2000 Dr. Henry Veltmeyer (Sociology)

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Dodds, J. Colin, B.A. (Open University), B.Sc. (Hull), M.A., Ph.D. (Sheffield), President and Professor of Finance and Management Science

Babcock, Stephanie, B.A. (Acadia), B.S.A. (Saint Francis Xavier) Executive Assistant

Vice-President (Administration)

Morrison, Gabrielle, B.Sc. (Dalhousie), B.E. (Technical University of Nova Scotia), P.Eng.

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Corrigan, Lawrence T., Dip. P.A., B.Comm. (Dalhousie), Dip. in App. Bus. (Ryerson), C.G.A., F.C.G.A.

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Davis, J. R. Leighton, B.F.A. (NSCAD), Artist-in-Residence Laurin, Gordon, B.F.A. (NSCAD), Director/Curator

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Uteck, Larry, Director

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Clements, Roy, Ticket Coordinator

Forbes, Lori, B.S.A. (Acadia), Sports Information Officer Jamieson, Sandra, B.R., Coordinator of Programming

Jeffrey, Jill, B.P.E., B.Ed. (New Brunswick), M.Ed. (Saint Mary's) Head Coach, Women's Basketball

MacNeil, Patricia, B.A.C.S. (University College of Cape Breton), Coordinator of Operations and Accounting

Mullane, Kathleen, B.P.E. (Dalhousie), M.B.A. (Saint Mary's), Manager of Facilities and Programming

Newhook, Chad, B.P.E. (Acadia), Athletic Therapist

Nill, Blake, B.A. (Concordia), B.Sc. (P.E.) (St. Francis Xavier), Head Coach, Football

Quackenbush, Ross, B.A., B.Ed. (Saint Mary's), Head Coach, Basketball

Stienburg, Trevor, Head Coach, Hockey

Atlantic Canada Centre for Environmental Science T.B.A., Director

I.B.A., DIRECTOR

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Crowell, Eric, B.A. (Dalhousie), M.B.A. (Toronto), C.A., Director

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Continuing Education

Sharpe, James F., B.Sc. (Mount Allison), M.A. (Columbia), Ed.D. (O.I.S.E., Toronto), Dean

MacDonald, Linda A., B.A. (Mount Allison), B.Ed. (New Brunswick), M.Ed. (Maine), Associate Director

Andrews, Steven, B.A., B.Ed. (Dalhousie), Assistant Director, Professional Programs

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Rodrigue, Clément, Project Planner

Financial Services

Cochrane, Ronald L., B.Comm (Saint Mary's), C.G.A., Director of Financial Services

Campbell, Judith M., B.A. (Mount Allison), C.M.A., Manager, Accounting

Dubois, Valerie, B.Comm. (Saint Mary's), F.I.C.B., C.P.P., Project Analyst

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Levangie, Gail, B.Comm. (Saint Mary's), C.P.P., Manager, Procurement

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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

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Stone, Daniel G., C.H.P.R., Director

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Boutilier, Debi, B.S.A. (St. Francis Xavier), Assistant

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McCarthy, Mike, Manager, Desktop Technologies

Sisk, Perry, B.Sc. (Dalhousie), Assistant Director, Management Information Systems

Smith, Steve, Manager, Telecommunications

Rooney, Paul, Manager, Help Desk and Media Services

Institute of Human Values

Monahan, Arthur P., B.A., M.A., Ph.D. (Toronto), L.M.S. (Pontifical Institute of Medieval Studies, Toronto), Director

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Library

Lefebvre, Madeleine, M.L.S., M.A. (Alberta), M.A. (Edinburgh), AALIA, University Librarian

Bentley, Brenda, Coordinator, Library Administration

Boxall, Cindy, B.A., B.Ed. (Saint Mary's), M.L.S. (Dalhousie),

Head, Instructional Development

Clare, Ken, B.A. (King's), Head of Access Services

Cook, Robert, B.A. (Hons.) (Wales), M.A. (Lancaster), M.A. (Saskatchewan), M.L.S. (Dalhousie), Head of Cataloguing Systems

Manning, David, Head of Acquisition Services

Tayyeb, Rashid, B.A. (Karachi), B.L.S., M.L.S. (Toronto), Coordinator of Systems and Training

Thomson, Joyce, B.A., M.L.S. (Dalhousie), Head of User Education

Vaisey, Douglas, B.A. (Trent), M.L.S. (Dalhousie), Head of Reference and Research

Webster, Peter, B.A. (Alberta), M.L.S. (Dalhousie), Head of Information Systems

Wood, Sally, B.A. (Saint Mary's), LL.B., M.L.I.S. (Dalhousie), Head of Database Management

Registrar's/Records Office

Chard, Elizabeth A., B.A. (Hons.), B.Ed., M.A. (Dalhousie), Hon.LL.D. (Saint Thomas), Registrar

Wilson, Murray J., B.A., B.Ed. (Saint Mary's), Associate Registrar Peters, David, B.Comm. (Saint Mary's), Assistant Registrar: Systems

Byrne, Joanne, B.A., B.Ed. (Mount Saint Vincent University), Executive Assistant

Cianfaglione, Helen, B.Comm. (St. Francis Xavier), M.Ed. (Dalhousie), M.A. (Michigan State University), Transcript Secretary Curtis, Paula, B.A. (Saint Mary's), Coordinator, Registry Services Downey, Phyllis-Ann, B.A. (Saint Mary's), Information

Assistant/Receptionist
Fitzgerald, Juanita, Coordinator of Records

Gaudet, Sarah, B.A. Cert. in CRM, (Saint Mary's) Information Assistant/Receptionist

Kaulback, Jenny, B.O.A. (Mount Saint Vincent University), Data Entry Clerk

MacNeil, Jolene, B.A. (Saint Mary's) Information Assistant/ Receptionist

Sullivan, Denise, Information Assistant /Receptionist

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Scribner, Sam, Assistant Director

Security

Promaine, William J., B.A. (Carleton), Manager

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Sexual Harassment Office

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Adams, Megan, B.PR. (Mount Saint Vincent), Atlantic Centre of **Support for Students with Disabilities**

Bagnall, Jane, B.A. (Dalhousie), Atlantic Centre of Support for Students with Disabilities

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Doucette, Katrina, B.Comm., CHRM (Saint Mary's), Co-operative **Education Officer**

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Everett, Tanya, B.A. Dipl. (NSCC), Atlantic Centre of Support for Students with Disabilities

Fougere, Michelle, B.A. (Saint Mary's), Financial Aid Counsellor Gibson, Debbie, B.Comm. (Saint Mary's), Student Employment

Gillis, Leo, B.A. (Saint Mary's), Co-operative Education Officer Grace, Christopher, B.A. (Saint Mary's), Atlantic Centre of Support for Students with Disabilities

Jeffrey, Donald, B.A., Cert. of CRM (Saint Mary's), M.Ed.

(Toronto), Counselling Services

King, Anita, B.A. (Saint Mary's), Financial Aid Assistant Landry, Sharon, B.A. (Saint Mary's), Secretary

Le Blanc, Clare, B.A. (University College of Cape Breton), Atlantic Centre of Support for Students with Disabilities

Leitch, David, B.A., B.Ed., B.Sc., M.A., Ph.D. (Dalhousie), Director, Atlantic Centre for Support of Students with Disabilities

Lellevre, Madeleine, CCC.B.Sc. (Hons.) (University of East Anglia), Dip. Hort. Sci. (Massey University), M.Ed. (Counselling) (Acadia), Atlantic Centre of Support for Students with Disabilities

LewIngton, Danielle, M.D., B.Sc. (Ottawa), Physician Lewington, Richard, M.D., B.Sc. (British Columbia), Physician MacEachern, Mary Ellen, B.A. (Kings), Manager, Student

Employment Centre and Coordinator, Co-operative Education

MacMilian, Patricia, M.A. (Dalhousie), Atlantic Centre of Support for Students with Disabilities

Morris, Sarah, B.Sc., M.Ed. (Dalhousie), Counselling Services Mulvihill, Rev. Con, S.J., B.A. (Toronto), M.A. (Northwestern), M.Div. (Toronto), Chaplain

Noel, Stephen, B.A. (Hons.) (Saint Mary's), M.Ed. Counselling (Acadia), Student Employment Centre

Pillay, Marle-Hélène, B.Ed. (University of Moncton), CHRM (Saint Mary's), Secretary

Robb, Alana, B.Sc.H.E. (Mount Allison), M.H.E. (Mount Saint Vincent), International Student Advisor

Rodriguez, Ysaac, B.Sc. (University of Santo Domingo, Dominican Republic), Program Officer

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Registration/Financial Manager

Hillaby, Sharron, B.A. (Mt. Saint Vincent), Accommodation

MacLean, Kathryn, B.A. (St. Francis Xavier), M.Ed. (Saint Mary's), Senior Instructor

MacPherson, Margaret, B.Ed. (Concordia), Corporate Group Training Coordinator

MacSween, Norma, B.M.U.S.A. (Western Ontario), M.A. (Carleton), M.Ed. (Saint Mary's), Senior Instructor

University Advancement

Keleher, Donald P., Dip.Eng., B.Sc. (Saint Mary's), B.E. (Technical University of Nova Scotia), Director Morris, Edmund, B.A., D.C.L. (Saint Mary's), Director of Planned



Dr. J. Colin Dodds with the Medal Winners in the Faculties of Arts and Science, Spring Convocation, 2000.



Presidents at Saint Mary's University, Liam Arbuckle, President, Saint Mary's University Students Association (1999-2001); former and current Presidents of the University – Dr. D. Owen Carrigan (1972-79); Dr. J. Colin Dodds (2000-); and Dr. Kenneth L. Ozmon (1979-2000).



The University's Mascot greets Dr. Dodds at his installation, 22 October 2000.

Students Hard at work at Saint Mary's University





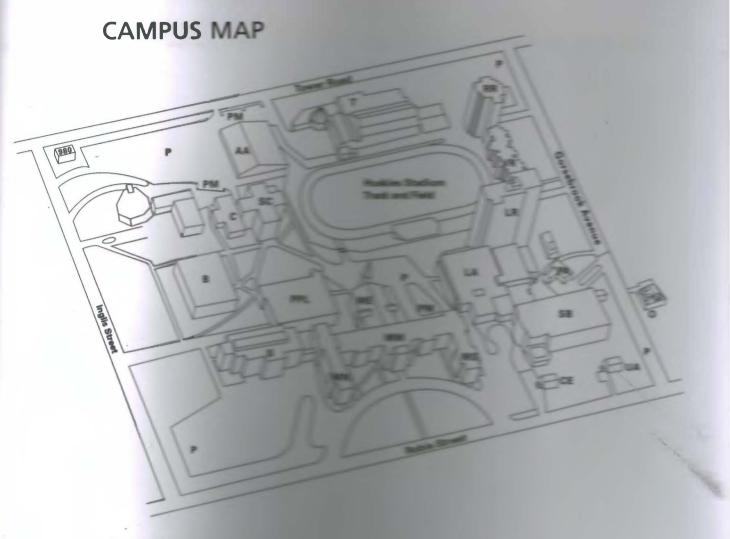
Athletics & Recreation at Saint Mary's University



Football Huskies win Atlantic University Sport Championship, 11 November 2000.



Women's Soccer Team member in action.



LEGEND

AA	Alumni Arene	PR.	Rathid: Rower Library
В	Burke Building	RE	Rice Residence
C	Cafeteria	5	Science Building
Œ	Continuing Education	38	Sobey Building
LA	Loyola Academic Complex	SC	O'Clomel Retresey
LR	Loyola Rasidence		Student Centre
ME	McNally East Wing	1	The Tower
MM	McNally Main	SIA.	DevelopmentAlumni
MN	McNally North William	WR.	Wanier Residence
MS	Molally South Wing	560	TESL Centre
0	The Oakslimanunium America		
P	Parking		
PA	Public Affairs Institutional Terrority	Allen	in buildings are wheelthair accesso

Photo Credits, Com

Parking Meters

must are connected by turnels or walkways.

Back Cover - Saint Wary's Currents are Cover . That the list use of born Wary's College: McNaily Building, 1999

Saint Mary's University is committed to excellence in teaching and research; outreach to regional, national and international communities; service to students; public accessibility; and fiscal responsibility.





Halifax, Nova Scotia, Canada