

# Graduate Academic Calendar of Saint Mary's University 2017-2018

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

Tel: (902) 420-5400

(902) 420-5452 TTD

Fax: (902) 420-5102 President

(902) 420-5104 Vice President Academic and Research

(902) 420-5566 Vice President Administration and Finance

(902) 420-5420 Vice-President Advancement

(902) 420-5511 Associate Vice President External Affairs

(902) 496-8100 Associate Vice President (Enrolment) & Registrar

(902) 496-8772 Associate Vice President Research

(902) 420-5073 Admissions and Recruitment

(902) 420-5151 Service Centre

(902) 420-5103 Continuing Education

(902) 496-8184 Financial Services

Information about Saint Mary's, including this *Academic Calendar*,  
is available at <http://www.smu.ca/servicecentre/calendar.html>

**Updated 31 March 2017**

## A Brief Guide to Using this *Academic Calendar*

Saint Mary's University publishes a separate *Undergraduate Academic Calendar*.

Some of the courses described in this *Calendar* will not be offered in 2017-2018. Students are therefore advised to consult the academic timetable for those courses which will be taught in the 2017-2018 academic year and the time(s) when they will be offered. The timetable can be found at <http://selfservice.smu.ca>

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

Inquiries regarding academic matters should be directed to the Registrar.

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

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

These programs include:

Master of Applied Health Services Research  
Master of Arts in Atlantic Canada Studies  
Master of Arts in Criminology  
Master of Arts in Geography  
Master of Arts in History  
Master of Arts in International Development Studies  
Master of Arts in Philosophy  
Master of Arts in Theology and Religious Studies  
Master of Arts in Women and Gender Studies  
Master of Applied Economics  
Master of Business Administration  
Master of Business Administration (CMA)  
Master of Business Administration (CPA)  
Master of Finance  
Master of Management - Cooperatives and Credit Unions  
Graduate Diploma in Co-operative Management  
Executive Master of Business Administration  
Master of Science in Applied Psychology  
Master of Science in Applied Sciences  
Master of Science in Astronomy  
Master of Science in Computing and Data Analytics  
Master of Technology Entrepreneurship and Innovation  
Doctor of Philosophy in Business Administration  
(Management)  
Doctor of Philosophy in Applied Science  
Doctor of Philosophy in Astronomy  
Doctor of Philosophy in Industrial/Organizational  
Psychology  
Doctor of Philosophy in International Development  
Studies

The following undergraduate programs can be found in the *Undergraduate Academic Calendar*.

Bachelor of Arts  
Bachelor of Commerce  
Bachelor of Science  
Bachelor of Environmental Studies  
Diploma in Engineering  
Diploma in Forensic Sciences  
Certificates of Honours Equivalency  
Certificate in Atlantic Canada Studies  
Certificate of Chinese Studies  
Certificate in Financial Instrument Analysis  
Certificate of Proficiency in French  
Certificate of German Studies  
Certificate of Human Resource Management  
Certificate of Linguistics  
Certificate in Mathematical Sciences for Education  
Certificate of Japanese Studies  
Certificate of Spanish Language and Hispanic Culture

# Contents

A Brief Guide to Using this <i>Academic Calendar</i>	2	
Contents.....	3	
<b>SECTION 1 - GENERAL INFORMATION</b>		
History.....	5	
Calendar of Events.....	8	
Board of Governors and Senate.....	10	
<b>SECTION 2 - ACADEMIC REGULATIONS</b>		
Academic Integrity and Student Responsibility	13	
Admissions.....	22	
Registration.....	23	
Program of Study and Research.....	26	
Evaluation and Grading.....	29	
Academic Standing.....	32	
Convocation and Academic Records.....	34	
Research Ethics Board.....	36	
<b>SECTION 3 - FACULTIES AND PROGRAMS</b>		
Arts		
M.A. in Atlantic Canada Studies.....	39	
M.A. in Criminology.....	42	
M.A. in Geography.....	44	
M.A. in History.....	47	
M.A. and PhD in International Development Studies.....	50	
M.A. in Philosophy.....	56	
M.A. in Theology and Religious Studies.....	60	
M.A. in Women and Gender Studies.....	63	
Sobey School of Business		
Master of Applied Economics	65	
Executive MBA.....	68	
Master of Business Administration.....	72	
Master of Business Administration – CPA	84	
Master of Finance.....	88	
Master and Graduate Diploma of Co- operatives and Credit Unions...	92	
Master of Technology Entrepreneurship and Innovation.....	95	
Ph.D. in Business Administration.....	98	
Science		
M.Sc. and Ph.D. in Astronomy.....	101	
M.Sc. in Computing and Data Analytics	106	
M.Sc. and Ph.D. in Psychology.....	109	
M.Sc. in Applied Science.....	113	
Ph.D. in Philosophy in Applied Science.....	122	
Education.....	125	
Research Centres		
Master of Applied Health Services Research	128	
		<b>SECTION 4 - ACADEMIC OFFICERS AND FACULTY; CHANCELLORS, PRESIDENT, DEANS, PROFESSORSEMERITI; ADMINISTRATIVE OFFICERS; AWARDS TO FACULTY AND STAFF</b>
		Academic Officers and Faculty..... 133
		Chancellors, President, Deans, Professors Emeriti. 144
		Administrative Officers..... 145
		Awards to Staff and Faculty..... 147

# **General Information**

---

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

**Section**

**1**

# History

## More Than Two Hundred Years of History

Since its founding in 1802, Saint Mary's University has developed into a modern, urban university with more than 7,200 full and part-time students. It is the oldest English-speaking, Roman Catholic initiated university in Canada. With meagre resources, the Reverend Edmund Burke founded the institution and, on being named Bishop of Nova Scotia, insisted that support for the college be continued as essential in fostering the Catholic community.

In 1841 the Nova Scotian House of Assembly gave formal recognition of the college's academic role and, eleven years later, granted it legal status. The next few years saw a great deal of uncertainty about the survival of the college. However, in 1913 the Christian Brothers of Ireland were asked by the Archdiocese of Halifax to direct the college and its academic programs. Its reputation as a liberal arts institution thrived in these years. Undergraduate programs were widely respected and new instructional programs were initiated, the most notable being the Faculty of Commerce which, when established in 1934, was among the first of its kind in Canada. In 1940 the Upper Province of the Society of Jesus (the Jesuits) was invited to succeed the Christian Brothers as administrators and teachers.

In 1952, the "College" became a "University". For more than thirty years, until the new Act of Incorporation in 1970, the college remained under Jesuit supervision. It established itself in teacher education; initiated the first courses in continuing education in Halifax/Dartmouth; purchased the first computer in Atlantic Canada; and became coeducational. Also, the long-standing emphasis on liberal arts and commerce was complemented by new programs in engineering and science.

The Saint Mary's University 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 emphasizing 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, Business, and Science. Master's programs are offered in Atlantic Canada Studies, Criminology, Geography, History, International Development Studies, Theology and Religious Studies, Women and Gender Studies, Astronomy, Applied Psychology, Business Administration, Applied Economics, Finance, Management of Co-operatives, and Technology, Entrepreneurship & Innovation. Since 1999, Saint Mary's has introduced doctoral programs in Business Administration (Management), Astronomy, I/O Psychology, and most recently, International Development Studies.

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, and architecture. Through the cooperative efforts of the Division of Continuing Education, part-time students study in these programs and in a variety of non-credit executive and professional programs all of which have been rapidly expanding both in numbers and geographic locations.

Over the last several decades this commitment to academic and research excellence has seen the number of full-time faculty with doctoral degrees rise to over 90 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 many-fold. 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 Centre for Academic and 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.

Students attend day and evening classes both on the 30 acre campus in the south end of Halifax and at off campus locations including the World Trade Centre in downtown Halifax; in Dartmouth; as well as in several other communities. Saint Mary's boasts residence facilities for single and married students, a Students Centre, Science Building, the Patrick Power Library, which is linked via computer to Nova Scotia universities and colleges, and "The Homburg Centre for Health and Wellness".

The Homburg Centre for Health and Wellness officially opened April 24, 2012. It consists of a 23,650 square foot state-of-the-art multi-purpose complex that includes the Centre for the Study of Sport and Health, integrated wellness program space, a large community studio/fitness room, community seminar rooms, a mid-size studio, a small studio, support space, and a show piece entrance that includes open space for students and other groups to gather, converse and study.

The Sobey Building officially opened in November 1998. It provided much needed additional classrooms with the very latest in technology and is home to the Sobey School of Business.

## 6 History

---

In 2009 a \$25 million expansion and renovation project was completed on the Science Building. In 2010 the Atrium and the Global Learning Commons was completed at a cost of \$17.5 million. The building features a main floor Global Learning Commons - a wireless, student-centered, barrier-free communal learning space that encourages interaction between faculty and staff, and provides more opportunity for community engagement. The second and third floors house teaching and study space, along with space for offices and computational sciences research.

In spring 2011 a total renovation of the McNally Building was completed. The McNally Building is the oldest structure on the campus and home to the Faculty of Arts and administrative offices.

The newest development on campus is the North East Campus Project. The first phase, completed in 2013, includes a 26,000 square-foot development that connects global and local communities to the Saint Mary's campus by providing modern classrooms and facilities for the English as a Second Language program (TESL) program and the Saint Mary's Business Development Centre.

The traditions formed by its founder and early teachers, built upon by the sound educational values of the Christian Brothers, and strengthened by the imaginative leadership of the Jesuits, provide a stable base for future development. Saint Mary's has been innovative in seeking cooperative ventures with other Maritime universities. The results have included the Atlantic Metropolis 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 postsecondary 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 over half of its students from this area. 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 centered around continued academic excellence in teaching and research, accessibility for all Nova Scotians, strong community outreach, and facilities and instruction for the physically challenged.

In early 2012, the Senate approved a revised Academic Plan, entitled *Building a Community of Global Learners: Academic Plan for Saint Mary's University, 2012-2017*, the revised plan was based on campus-wide consultations held in the course of 2011. Key priorities identified in the plan include:

- Enhance Student Learning through Excellence in Teaching
- Enhancing Student Success
- Linking Theory and Practice
- Promoting Research, Creative Activity and Graduate Studies
- Building Thematic Clusters of Teaching and Research
- Enhancing our International Diversity

### Memberships

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

### Affiliations

Saint Mary's University has been associated with Dalhousie University (formerly DalTech and prior to that the Technical University of Nova Scotia) since 1916, providing the first two years of study leading to the degree of Bachelor of Engineering in civil, electrical, mechanical, mining, metallurgical, chemical, and industrial engineering. At the beginning of the 21st century, Saint Mary's University and the Atlantic School of Theology entered into a formal Memorandum of Agreement concerning future cooperation and new initiatives, most notably a MA in Theology and Religious Studies. This promises many exciting new developments, including a Centre for Ethics as well as cooperative ventures with faculty and students.

### University Crest and Motto

The University crest was designed in the 1940s by the Reverend Daniel Fogarty, S.J., the then Dean of Education. Each symbol in the crest has a significance relevant to the various phases and history of the University. On the outer portion of the crest the name and location of the University are inscribed in Latin, and in Roman numerals (1841), the date the University received its charter authorizing it to grant degrees. The book shown above the shield represents learning and knowledge. The inscription on the page of the book is in Latin - "Age Quod Agis". This is the motto of the University which exhorts all those connected with the University to strive to do their best in everything that they do. This quotation is from the Irish Christian Brothers and symbolizes their contribution to the development of the institution. The centre portion of the crest is a shield. The upper part of this has the official seal of the Jesuits with I.H.S. being the Greek initials for Christ's name. Below these initials are the three nails which represent the Crucifixion and surrounding these is the Crown of Thorns.

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

### University Colors and Mascot

The official colors of the University are maroon and white.

In 1960 Saint Mary's University chose Huskies as the name for their sports teams. The Siberian Husky became the official mascot for qualities which paralleled the teams' motto, In Pursuit of Excellence. Pound for pound, the Siberian Husky is the strongest draft dog in existence. A

versatile and gentle dog, the Husky is the perfect example of tenacity, drive, and loyalty. Like their namesake, the Saint Mary's Huskies strive for gold. They are willing to work hard and are always attempting to achieve their fullest potential.

#### **The University Mace**

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

#### **The Presidential Medallion of Office**

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

# ACADEMIC CALENDAR OF EVENTS 2017-2018

**Registration** Details on registration for the 2017-2018 academic year will be published on the Service Centre's webpage [www.smu.ca/servicecentre](http://www.smu.ca/servicecentre) in March 7.

## 2017

### May

8 (Monday) Summer Session begins for graduate and undergraduate courses  
15-19 Convocation Week, 2017  
22 (Monday) Administrative Offices closed and no classes – Victoria Day.

### June

1 (Thursday) Deadline for filing an Application for Graduation for fall Convocation, 2017.  
22 (Thursday) Last day of classes in First Summer Session (Undergraduate).

### July

5 (Wednesday) Second Summer Session (Undergraduate) classes begin.

### August

1 (Tuesday) Last day for filing Applications for Graduation for degrees, diplomas and certificates to be awarded in January 2018  
7 (Monday) Administrative Offices closed and no classes – Natal Day.  
23 (Wednesday) Last day of classes in Graduate Summer Session and in Second Summer Session (Undergraduate).

### September

4 (Monday) Administrative Offices closed – Labour Day  
5 (Tuesday) Academic year begins.  
**6 (Wednesday) CLASSES BEGIN.**  
**15 (Friday) (a) Last day for registering and changing in the fall term (September – December)**  
(b) Last day for final payment of fall term tuition fees.  
**29-30 (Friday-Saturday)** Fall Convocation 2017

### October

2 (Monday) Last day for filing Applications for Graduation for degrees, diplomas and certificates to be awarded in May 2018  
9 (Monday) Administrative Offices closed and no classes - Thanksgiving Day.

### November

7 (Tuesday) Last day for withdrawing, without academic penalty, from three (3) credit hour or six (6) credit hour courses taught only in the fall term (Reference: Academic Regulation 16).  
10 (Friday) - Fall Break. No classes  
14 (Tuesday)  
11 (Saturday) –Remembrance Day.  
29 (Wednesday) Last day of classes in fall term.  
30 (Thursday) – Study Days. No classes.  
Dec 1 (Friday)

### December

2 (Saturday) Start of formal final examinations in three (3) credit hour courses and formal mid-year examinations in six (6) credit hour courses.  
8 (Friday) Patronal Feast of the University. Normally no examinations are scheduled on this day.  
16 (Saturday) End of final exams and end of the fall term. **Note:** Subject to change should it not be possible to schedule all formal examinations in the designated timeframe.

**2018**

**January**

- 3 (Wednesday) **CLASSES RESUME.**  
**12 (Friday)** (a) **Last day for registering in the winter term (January – April)**  
 (b) Last day for final payment of winter term tuition fees.  
 19 (Friday) January Convocation (tentative).

**February**

- 12 (Monday) Last day for withdrawing, without academic penalty, from six (6) credit hour courses taught from September to April (Reference: Academic Regulation 16).  
 19 (Monday) Administrative Offices closed and no classes - Heritage Day.  
 20 (Tuesday) - Winter Break. No classes.  
 24 (Saturday)

**March**

- 12 (Monday) Last day for withdrawing, without academic penalty, from three (3) credit hour courses or six (6) credit hour courses taught only in the Winter term (Reference: Academic Regulation 16).  
 30 (Friday) Administrative Offices closed – Good Friday.

**April**

- 2 (Monday) Administrative Offices closed – Easter Monday  
 4 (Wednesday) Last day of classes in winter term.  
 5-6 (Thursday – Friday) Study Days. No classes.  
 7 (Saturday) Start of formal final examinations.  
 20 (Friday) End of formal final examinations and end of the winter term. **Note:** Subject to change should it not be possible to schedule all formal examinations in the designated timeframe.

**May**

- 7 (Monday) Summer Sessions begin for graduate and undergraduate courses  
 14 - 18 (Monday - Friday) Spring Convocation Week, 2018.  
 21 (Monday) Administrative Offices closed and no classes – Victoria Day.

**June**

- 22 June (Friday) Last day of classes in First Summer Session (Undergraduate).

**July**

- 4 (Wednesday) Second Summer Session (Undergraduate) classes begin.

**August**

- 6 (Monday) Administrative Offices closed and no classes – Natal Day  
 22 (Wednesday) Last day of classes in Graduate Summer Session and in Second Summer Session (Undergraduate).

## Board of Governors

---

### Chairperson

Ms. Karen Oldfield

### Vice-Chairperson

Mr. Scott Norton

### Members Ex-Officio

Chancellor

Dr. Paul Sobey

Visitor

The Most Reverend Anthony Mancini

President and Vice-Chancellor

Dr. Robert E. Summerby-Murray

Vice-President, Academic and Research and Board

Secretary

Dr. Malcolm Butler

Vice-President (Finance and Administration)

Ms. Gabrielle Morrison

University Secretary

Ms. Anne-Marie Delorey

### Members Appointed by the Roman Catholic Episcopal Corporation

Mr. Alan Abraham Jr.

Ms. Karen Oldfield

TBA

### Members Elected by the Alumni Association

Mr. Greg Dickie

Ms. Mary-Lou Donnelly

Ms. Sarah Ferguson

Ms. Jennifer Liu

Ms. Karen Ross

Ms. Mary-Evelyn Ternan

### Members Elected by the Academic Staff

Dr. Renee Hulan

Dr. Natalia Kochetova-Kozloski

Dr. Alexandra Dobrowolsky

Dr. Goran Stanivokovic

Dr. Peter Twohig

Dr. Danika van Proosdij

### Members Elected by the Students

Mr Ben Gaunce

Ms. Jane Jans

Mr Kazi Rahman

Mr. Bryan Rice

### Members Elected by the Board of Governors

Mr. Paul Baxter

Mr. Philip Fraser

Mr. Lawrence Freeman

Dr. Besim Halef

Ms. Karen Henderson

Mr. Michael Lordon

Mr. Joseph Metlege

Mr. Scott Norton

### Members Appointed by the Lieutenant-Governor in Council

Mr. Rakesh Jain

Mr. Jamie MacNeil

### Observer Elected by Support Staff

Ms. Barbara Bell

---

# Academic Senate

---

## Chairperson

Dr. Donald J. Naulls

## Vice-Chairperson

Dr. Tanya Peckmann

## Members Ex-Officio

Dr. Robert E. Summerby-Murray, President

Dr. Malcolm Butler, Vice-President, Academic and Research

Dr. Margaret MacDonald, Dean of Arts

Dr. Patricia Bradshaw, Dean of the Sobey School of Business

Dr. Steven Smith, Dean of Science

TBA, Associate Vice President Research and Dean of Graduate Studies and Research

TBA, Associate Vice President (Enrolment Management) and Registrar

Mr. Tom Brophy, Senior Director, Student Services

Ms. Marie DeYoung, University Librarian

Mr. Gordon Michael, Director, Division of Continuing Education

## Members Elected

### To August 2019

Dr. Lyndan Warner

Dr Myles McCallum

Dr Madine Vanderplaat

Dr Mohammad Rahaman

Dr Daniel Hall

### To August 2018

Dr. Gugu Hlongwane

Dr. Don Naulls (Chair)

Dr. Tanya Peckmann

Dr. Veronica Stinson

Dr. Karen Grandy

### To August 2017

Dr. Linda Campbell

Dr. Jason Grek-Martin

Dr. Nicole Conrad

Dr. Tatjana Takseva

Dr. Eric Henry

## Student Senators

Mr. Kazi Rahman

Ms. Blair Jones

Mr. Homood Alanazi

Ms. Deeksha Bhaskar

Mr. Bryan Rice

## Senate Office

Barb Bell

**Academic Integrity and  
Student Responsibility**

**Academic Regulations**

---

**Section**

**2**

# Academic Integrity and Student Responsibility

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

1. to promote and disseminate learning and knowledge.
2. to provide an atmosphere of freedom, responsibility and mutual respect in the University community, and,
3. to aid in the improvement of society in all ways consistent with these objects.

More recently, the University has defined among its Vision, Mission and Core Values as:

## Vision

Saint Mary's, building on its strong tradition of accessibility and community engagement, will be the University of choice for aspiring citizens of the world.

## Mission

The mission of Saint Mary's University is to offer undergraduate, graduate, and continuing education programs; to engage in research and disseminate its results; and to serve the community from the local to the international level.

## Core Values

Saint Mary's University addresses its vision and mission in the context of all of its values:

- In achieving its mission, the Saint Mary's community is guided by core values of academic integrity, the pursuit of knowledge, responsiveness to community needs, openness to change, concerns for a just and civil society, and fiscal responsibility.
- The University is committed to accessibility, diversity and the provision of a positive and supportive learning environment through the effective integration of teaching and research.
- Through promoting the importance of critical enquiry, leadership, teamwork and global awareness, we aim to prepare students for responsible and rewarding lives and to remain engaged with our alumni worldwide.
- We recognize the importance of the contribution and growth of each individual in the University's success.
- Saint Mary's welcomes mutually beneficial partnerships and strategic alliances with all levels of government, with other educational institutions, non-government institutions and the private sector.

The above guide the University in how it conducts its affairs. Two key policies of the University are Academic Regulation 19, governing Academic Integrity, and the Student Code of Conduct governing non-academic standards of behaviour.

## Academic Integrity (Academic Regulation 33)

An academic community flourishes when its members are committed to these fundamental values:

- 1. HONESTY:** An academic community of integrity advances the quest for truth and knowledge by requiring intellectual and personal honesty in learning, teaching, research and service.
- 2. TRUST:** An academic community of integrity fosters a climate of mutual trust, encourages the free exchange of ideas, and enables all to reach their highest potential.
- 3. FAIRNESS:** An academic community of integrity establishes clear standards, practices, and procedures and expects fairness in the interactions of students, faculty, and administrators.
- 4. RESPECT:** An academic community of integrity recognizes the participatory nature of the learning process and honours and respects a wide range of opinions and ideas.
- 5. RESPONSIBILITY:** An academic community of integrity upholds personal accountability and depends upon action in the face of wrongdoing<sup>1</sup>.

<sup>1</sup> The Fundamental Values of Academic Integrity, Center for Academic Integrity, Duke University ([www.academicintegrity.org](http://www.academicintegrity.org))

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

At times there may be considerable pressure to achieve high grades. Some students 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.

## Examples of Academic Offences

*In April of 2005, the Quality of Teaching Committee Sub-Committee on Academic Integrity released a comprehensive report on academic integrity at Saint Mary's. The following examples of academic offences, while not exhaustive, were compiled from information contained in this report.*

**Plagiarism** – "The presentation of words, ideas or techniques of another as one's own. Plagiarism is not restricted to literary works and applies to all forms of information or ideas that belong to another (e.g., computer

## 14 Academic Integrity and Student Responsibility

---

programs, mathematical solutions, scientific experiments, graphical images, or data)".

Examples of plagiarism include:

- quoting, paraphrasing, or summarizing text without proper acknowledgment;
- paraphrasing too closely (e.g., changing only a few words or simply rearranging the text);
- downloading all or part of a paper, journal article, or book from the Internet or a library database and presenting it as one's own work;
- purchasing documentation and presenting it as one's own work;
- sharing papers including the selling of essays, tests, or other assignments.

**Cheating** – "The attempt to secure a grade by unethical means. Knowingly assisting someone to cheat is itself cheating".

Examples of cheating include:

- impersonating someone during a test or exam;
- copying or sharing information during a test or exam;
- using or possessing unauthorized materials (e.g., notes, books, calculators) during a test or exam;
- obtaining or looking at a copy of a test or exam before it is administered;
- improper use of technology (e.g., Personal Digital Assistants to store and retrieve information during an exam);
- unauthorized use of communication technology (eg: cell phones, pagers, Blackberries, etc);
- unauthorized collaboration between students when individual work is required.
- submitting the same work for credit in more than one course without the permission of the instructors involved;

**Falsification** – "It is an offence to falsify any academic record or to use a falsified record".

Examples of falsification include:

- submitting a false excuse for missing a class, exam, etc. (e.g., forging a medical or death certificate);
- falsifying course work (e.g., altering or making up data, using fake citations in a bibliography);
- changing the answers on a returned assignment and resubmitting it to be reevaluated;
- submitting false information on a university admission form or other documentation;
- misrepresentation of knowledge of a language by providing inaccurate or incomplete information about one's linguistic educational history;
- non-disclosure of previous post-secondary enrolment;
- presentation of another's credentials as one's own.

**Tampering** – "It is an offence to tamper with University library materials or computer system resources in any way which would deprive others of their use".

Examples of tampering include:

- destroying, hiding, or stealing library materials;
- altering or destroying university computer programs or files without authorization;
- accessing and altering official records without authorization.

Assisting someone in the commission of dishonest behavior is an offence subject to penalty.

### General Procedures

When a member of the University community (faculty, staff, or student) believes that an academic offence has been committed, s/he shall make a written submission to the department chairperson, Dean and Registrar. The Registrar will advise the instructor whether this is the first instance of academic dishonesty.

### Type One Resolution

In the case of a first documented instance of dishonesty that would normally carry a penalty of zero in the piece of work triggering discipline, the instructor (Complainant) may choose to resolve the complaint with the student (Respondent) using the Type One Resolution process. If the student and instructor mutually agree to a penalty of a reduction in grade (e.g., a grade of zero on the assignment), resubmission of the assignment in question, completion of a new assignment, or other resolution, then this decision is to be communicated in writing to the student, chairperson, Dean and Registrar.

In the case of a first documented instance of dishonesty, where the faculty member has imposed a penalty of a reduction in grade, but the instructor has not met with the student to make a Type One Resolution, the Registrar will notify the student, in writing, of the accusation and action. The student will be advised that this can be challenged by referring the matter to the Senate Academic Discipline Committee. If the Student does not reply within one month, it shall be deemed to be resolved.

All incidents and actions are to be submitted in writing to the Registrar. Faculty may choose to document the incident by using the Incident Report Form available from the Service Centre. If the student agrees to the penalty they must indicate that in writing. Students may not appeal decisions that were agreed to through the Type One process. Documentation of all incidents resolved through the Type One Resolution process shall be kept in the student's official file.

### Type Two Resolution

All cases that cannot be resolved by the Type One process shall be resolved by the Senate Academic Discipline Committee in accordance with the procedures for resolution of Type Two complaints (see below).

## Senate Academic Discipline Committee

### Composition

The Committee is comprised of nine (9) representatives of the Faculty and three (3) representatives of the student body. The Faculty representatives are elected by Senate for a three (3) year term. There shall be three (3) Faculty representatives from each of the Faculties of Arts, Commerce and Science, with no two (2) Faculty

representatives from the same Department. The student representatives shall be appointed by the Students Association. The Chair of the Committee shall be a Faculty representative chosen by a vote of the majority of the Committee. The Committee members shall participate in adjudication training annually.

**Formal Resolution of Academic Discipline Complaints**

In cases that cannot be resolved by the Type One process, the Senate Academic Discipline Committee shall:

- Consider all complaints or allegations in relation to offences or irregularities of an academic nature at both the undergraduate and graduate levels, including but not limited to, those relating to admissions procedures, evaluation procedures, second offences of plagiarism, cheating and other academic dishonesty. The Committee may impose penalties in cases where the Committee finds an offence or irregularity has occurred;
- Have the power to discipline a student who, before or during the disciplinary process involving him or her, but prior to a Hearing or adjudication, has:
  - been compelled to withdraw academically;
  - chosen to withdraw from the University prior to being disciplined; or
  - chosen not to register at the University.
- Assume jurisdiction when a complaint or allegation in relation to offences or irregularities of an academic nature is brought to its attention by the Registrar. Complaints or allegations may be made by Faculty or other evaluators of academic work done by students. The Registrar will provide documentation to the Senate Office. Four copies will be generated and forwarded to the Chair of the Committee.

**The Hearing Panel**

Upon notification by the Senate Office of an allegation or complaint the Chair of the Committee shall appoint a Hearing Panel from the members of the Committee to hear the allegation or complaint. A Hearing Panel is comprised of two (2) Faculty members and one (1) student. One of the Faculty members shall be from the Faculty in which the offence occurred but not the same department and shall serve as Chair.

**Procedures for Type Two Complaints**

1. For those cases that cannot be resolved by the Type One process, or the student wishes to challenge the accusation of dishonesty, the Respondent (i.e. the student) shall file a written notice seeking access to the Type Two Resolution process within five (5) working days of receiving notification from the Registrar that there has been a penalty due to a plagiarism incident or allegation, but in no case later than 10 days following the end of the term in which the penalty was applied.
2. The Registrar shall then provide written notice that the Respondent is seeking access to the Type Two Resolution process to:

- (a) the Senate Office;
  - (b) the Department Chairperson and Dean of the Faculty from which the Complaint emanates;
  - (c) the Dean of the Faculty in which the student is enrolled; and
  - (d) the student.
3. The Senate Office shall transmit four copies of the case documents to the Chair of the Senate Academic Discipline Committee (or the Chair's designate). This case documentation may include, but is not limited to:
    - (a) Copies of the material containing instances of plagiarism or evidence of cheating;
    - (b) Written submission to department chairperson, Dean and Registrar;
    - (c) Any documentation relating to the Type One Resolution attempt; and
    - (d) Notice of the Respondent seeking Type Two Resolution of the complaint.
  4. The Chair of the Senate Academic Discipline Committee shall appoint the members of the Hearing Panel to hear and determine the complaint if the Respondent has made a request for an in person Hearing in their notice of seeking access to the Type Two Resolution process.
  5. The Chair of the Hearing Panel shall:
    - (a) request the parties to provide the Hearing Panel with written submissions as set out in paragraph 6. Below. Where a Hearing in person is requested, the Chair will schedule a Hearing within thirty (30) calendar days of the filing of the Type Two Resolution request and shall notify both parties of the date.

The parties shall provide the information requested by the Chair.
  6. The written submissions of the parties shall contain:
    - (a) copies of all documents relevant to the Hearing; and
    - (b) a written statement of the Complainant's (e.g. the faculty members involved) position.
  7. The Complainant shall submit his or her written submission within five (5) working days of being requested to do so by the Chair.
  8. The Respondent shall make a written submission within five (5) working days of receiving the Complainant's submission.
  9. The Chair shall supply copies of all submissions received to both parties to the Complaint within three (3) working days of receiving the submissions.
  10. If a party intends to be represented or assisted by a lawyer or other person, he/she must inform the Chair at least two working days prior to the Hearing and the Chair will inform the opposing party and allow them time to arrange representation if desired. In such case, a

## 16 Academic Integrity and Student Responsibility

---

deferral of the hearing of up to five (5) working days may be requested.

11. Where a Hearing in person is held, normally the Complainant and Respondent will be present in person. If reasonable attempts to locate a party have been unsuccessful, the Hearing may take place in his/her absence.
12. Where a Hearing in person is held, the Hearing Panel shall regulate as it considers appropriate in order to achieve an orderly, fair and expeditious resolution of the complaint, with each party to the complaint being given an opportunity to present all relevant evidence and submissions that it wishes to bring forward, an opportunity to comment on the presentations of the other party, and an opportunity to put questions to the other party, directly, or through the Panel.
13. Whether or not a Hearing in person is held, it is the responsibility of the parties to present to the Panel all relevant evidence and submissions that it wishes to bring forward. In addition to considering all such evidence and submissions, the Hearing Panel may consider relevant evidence and submissions from other sources and, on its own initiative, solicit additional information and act upon it, provided that the parties are apprised of the additional evidence, submissions, and information, with an opportunity to respond.
14. The Hearing shall be *in camera*. All evidence presented and heard in a Hearing will be kept strictly confidential.
15. The Hearing Panel may specify any remedy that it considers appropriate and that would be within the power of Senate to grant.
16. Decisions of the Hearing Panel shall be made by majority vote. In weighing evidence, the Committee shall base its decisions on “the balance of probabilities”.
17. The Chair of the Hearing Panel shall forward the decision of the Hearing Panel to the Chair of the Academic Discipline Committee. The Chair will record the decision and forward the Hearing Panel’s decision to the Senate Office and the Registrar. The Registrar shall then notify the parties to the Hearing of the decision and will also inform the individuals identified in paragraph 2.
18. If any party to a Complaint fails to comply with these procedures or with any request for information after having been given a reasonable opportunity to do so, the Hearing Panel may, in its discretion, deal with the Complaint in a manner adverse to the interests of the party who has failed to comply.

### Penalties

The Hearing Panel may impose the following penalties of an academic nature and, without restricting the generality of the foregoing, may include any one or more of:

- notation of the fact of discipline on the offender’s transcript for a period of one (1) or more years;
- repeat of the assignment that triggered the discipline;
- a failing grade or mark or assessment in the piece of work triggering the discipline;
- failure of the class or course;
- dismissal for an academic term or year (to a maximum dismissal of three (3) academic years);
- expulsion from the University;
- loss of a current or continuing scholarship, or both, or loss of eligibility to receive or maintain scholarships, prizes or bursaries;
- removal from the Dean’s list;
- reduction in grade; and
- revocation of degree, certificate or diploma.

### Appeals

An appeal from the decisions of the Senate Academic Discipline Committee may be made to the Senate Academic Discipline Appeal Board on the following grounds:

- a. A failure to follow the “rules of natural justice”;
- b. A failure to follow University rules, regulations or policies.

The rules of natural justice require that decisions are made by a fair process. The nature and context of the decision being made are important in determining what is a fair process. The rules of natural justice include the right to be heard and the right to an unbiased decision maker.

The processes for filing an appeal are found in the terms of reference of the Senate Academic Discipline Appeal Board.

### Senate Academic Discipline Appeal Board

#### Composition

The Senate Academic Discipline Appeal Board is comprised of 6 representatives of the Faculty and 2 representatives of the student body. The Faculty representatives are elected by Senate for a 3 year term. There shall be 2 Faculty representatives from each of the Faculties of Arts, Commerce and Science, with no 2 Faculty representatives from the same Department. The student representatives shall be appointed by the Students Association. The Chair of the Board shall be a Faculty representative chosen by a vote of the majority of the Board. The Board members shall participate in adjudication training annually.

#### Function

The Senate Academic Discipline Appeal Board shall:

1. Hear appeals from decisions of the Senate Academic Discipline Committee on the following grounds:
  - (a) a failure to follow the “rules of natural justice”,
  - (b) a failure to follow University rules, regulations or policies.

2. Have the responsibility to ensure the execution of its decisions.

### Procedures

#### Initiation of the Appeal

1. Either party to the original complaint may initiate an appeal under this policy by delivering a Notice of Appeal to the Registrar.
2. The Registrar will forward the Notice of Appeal to:
  - a. the Department Chairperson and Dean of the Faculty from which the original complaint emanated;
  - b. the Dean of the Faculty in which the student is enrolled; and
  - c. both parties to the original complaint.

The Notice of Appeal shall be delivered not later than ten (10) working days from the date a final decision being appealed has been communicated in writing to the student. Thereafter no appeal may be brought.

#### Appointment of an Appeal Board

Upon receipt of a Notice of Appeal, the Registrar shall send a copy of it to the Chairperson of the Senate Academic Discipline Appeal Board. If the Chairperson concludes that the appeal involves the permissible grounds for appeal as set out herein, an Appeal Hearing Panel shall be constituted to hear the appeal. The Chair of the Board shall appoint an Appeal Hearing Panel from the members of the Committee to hear the appeal. An Appeal Hearing Panel is comprised of two (2) Faculty members and one (1) student. One (1) of the Faculty members shall be from the Faculty in which the offence occurred but not the same department and shall serve as Chair.

#### Appeal Hearing Panel Procedure

1. The Appeal Hearing Panel shall be convened to hear the appeal as soon as practical, but not later than fifteen (15) working days after it is constituted or such later date as is acceptable to the Appellant and Respondent.
2. The Appeal Hearing Panel shall determine its procedures subject to the following:
  - a. all parties involved shall be given adequate notice and full opportunity to participate;
  - b. the basis of the appeal shall be presented by the person who made the appeal (the Appellant) or person appointed by such person;
  - c. the Respondent is usually the person who started the initial proceeding;
  - d. the Appellant or Respondent shall be entitled to be represented by one other person, including legal counsel;
  - e. evidence supporting or rebutting the appeal may be given by witnesses;

- f. witnesses may be questioned by the appellant, the appellant's representative, the Chairperson of the original Academic Discipline Hearing Panel or by the Board;
- g. the hearing shall be *in camera* unless the student requests that it be open, in which case the number of observers may be limited by the Chairperson. The student is entitled to at most five (5) observers.

#### Disposition of the Appeal

The Senate Academic Discipline Appeal Board may, by a majority:

- a. deny the appeal;
- b. quash the decision of the Senate Academic Discipline Committee entirely;
- c. quash the decision of the Senate Academic Discipline Committee and recommend a re-hearing on the merits by another panel of the Senate Academic Discipline Committee; or
- d. modify the penalty assessed by the Senate Academic Discipline Committee.

#### Copy of the Decision

Within five (5) working days from the date the Academic Discipline Appeal Board has rendered its decision, the Registrar shall deliver a copy of the decision to the student who initiated the appeal and to the persons mentioned in item 2 above;

#### Compliance within Thirty (30) Calendar Days

Where the Academic Discipline Appeal Board has determined that a person or Faculty is to address or act upon a particular matter, the person or Faculty shall within thirty (30) calendar days of the receipt of the decision, advise the Registrar of its compliance, or time table for compliance, with the decision.

#### No Further Appeal

The findings and ruling of the Academic Discipline Appeal Board shall be binding without further appeal.

#### Student Code of Conduct

1. Among the objectives of Saint Mary's University are:
  - to promote and disseminate learning and knowledge.
  - to provide an atmosphere of freedom, responsibility and mutual respect in the University community, and,
  - to aid in the improvement of society in all ways consistent with these objects.
2. It is important to recognize that in the fulfillment of these objectives, non-academics standards of behavior on the University Campus are as important as academic standards. The Student Discipline Code is directed towards non-academic standards of behavior and seeks

## 18 Academic Integrity and Student Responsibility

---

- to define the rights and responsibilities of students as members of the University Community.
3. Discipline should encourage students to understand the fundamental values that are essential to the well-being of both the individuals and society, and to accept responsibility for the consequences of their actions.
  4. Students will be responsible for their conduct and will accept the consequences for choices made.
  5. The Student Discipline Code is adopted by the Board of Governors pursuant to Section 7(1)(g) of the Saint Mary's University Act.
  6. **Premises of the Student Discipline Code**
    - a. The Student Discipline Code is committed to fairness in disciplinary and appeal procedures.
    - b. The Student Discipline Code is committed to clarity of form and content, in order to facilitate a fair and timely resolution of problems.
    - c. Notwithstanding the rules and procedures set out in the Student Discipline Code, the President retains his/her authority to exercise general supervision over the students in accordance with the University Act.
    - d. The purpose of this discipline code is instruction. It is a process through which individuals learn to behave in a manner consistent with expectations designed to allow the greatest number of people the opportunity to learn in an appropriate and safe environment.
  7. Misconduct for which students of the University will be subject to discipline includes but is not limited to:
    - a. conduct which threatens or endangers the health, safety, or well-being of anyone in their capacity as a member of the University community on or off campus,
    - b. the use of abusive or offensive language or gestures at University sponsored functions,
    - c. theft of, or deliberate or reckless damage to, University property or the property of a member of the University community,
    - d. violations of published rules including those governing University residences,
    - e. dishonesty, including, but not limited to:
    - f. knowingly furnishing false information or failing to verify the accuracy of the information provided, and
    - g. fraud, forgery, alterations or misrepresentation of documents, University records or instruments of identification;
    - h. use or consumption of intoxicants, including alcoholic beverages, except where specifically authorized under lawful conditions,
    - i. unauthorized use of the University's corporate name, crest, or logo,
    - j. intentional obstruction or disruption of any University sponsored function, including disciplinary proceedings held in accordance with these regulations,
    - k. the entry or attempted entry without lawful authority of any building, facility or dwelling on University property,
    - l. failing to comply with the direction of University officials acting in the performance of their authorized duties,
    - m. violation of any law of Canada, including but not limited to, acts declared unlawful relating to drugs, alcoholic beverages or gambling or the possession of weapons,
    - n. the unauthorized alterations or misuse of any fire fighting equipment, safety equipment or emergency devise,
    - o. soliciting or canvassing for commercial purposes without prior written authorization from the University, and
    - p. deliberate assault upon a security officer (including without limitation, members of the campus police force, residence assistants, residence security staff or security officers).
- Disciplinary Officers and Jurisdiction**
8. Under the general responsibility and direction of the Director of Student Services, and subject to Senate regulations, the following Administrative Officers at the University (hereinafter called "Disciplinary Officer") shall have jurisdiction in matters of student conduct and discipline in respect of all registered students at the University, both full and part-time, and all student organizations at the University:
    - a. in matters of damage to property or misconduct against the person, occurring within the confines to the residences maintained by the University (the "Residences"), the Director of Residences,
    - b. in matters involving property damage to University property outside the confines of the Residences, the Director of Student Services,
    - c. in matters involving misconduct against the person committed on University property, but outside the Residences, and relating to misconduct against the person and/or property outside the University, the Director of Student Services, and
    - d. notwithstanding (a), (b), and (c), in respect of all cases of sexual harassment, regardless of location, the Conflict Resolution Officer.
  9. In the event that the Disciplinary Officer having jurisdiction is unable to act upon any complaint filed with him/her, or must disqualify himself/herself from acting upon any complaint for any reason, that officer shall refer the matter to either of the other Disciplinary Officers who shall, upon referral of any complaint, have jurisdiction to act upon the complaint. Should those other officers also disqualify themselves, the matter may be referred to the Assistant Director of Residences (Residence Life).
  10. The Disciplinary Officers, when exercising their jurisdiction as set out herein, shall uphold the authority of the Board of Governors, the Senate and the Saint Mary's University Students' Association (the Students' Association).
- Sexual Harassment**
11. Because of the special considerations involved in cases of sexual harassment, the Senate has approved a procedure for dealing with sexual harassment. This

Policy contains a complete code with respect to matters of complaints of sexual harassment and shall be used to govern all cases of sexual harassment even where it conflicts with this Policy, except in so far as disciplinary penalties are concerned. The range of disciplinary penalties which can be invoked in cases of sexual harassment are those enumerated in Article 23 of that Policy.

**Disciplinary Complaints**

12. Any member of the University community (i.e., students, faculty, administrators or employees) may lodge a complaint with any of the Disciplinary Officers alleging that a student has engaged in a misconduct. Any such complaint shall set out the facts of the alleged misconduct and shall be made within five days of the complainant having become aware of the misconduct. A Disciplinary Officer shall have the power to extend the time for filing a complaint if he/she deems it appropriate having regard to all the circumstances surrounding the alleged misconduct.

**Disciplinary Hearing**

13. Complaints will be heard by a Board (the Student Disciplinary Board or "SDB") consisting of three persons as follows:
- a. the Disciplinary Officer having jurisdiction over the complaint (8. (a), (b), c)),
  - b. one member of the administration staff of the University to be appointed by the President, and
  - c. one student chosen by the Director of Student Services through an interview process, in conclusion with the Saint Mary's Students' Association.
- With respect to the administrative and student members, an alternate for each shall be designated as outlined in 13. b) and c).
14. Disciplinary hearings will be chaired by the Disciplinary Officer having jurisdiction.
15. Upon receiving any complaint, the Disciplinary Officer acting in respect of the alleged misconducts shall set a time and place for the hearing of the complaint. Wherever possible, the hearing of the complaint shall be within ten (10) days from the date of the receipt of the complaint by the Disciplinary Officer acting in respect of the alleged offence.
16. The Disciplinary Officer acting in respect of the alleged misconduct shall serve the student respondent with notice of the time and place of the hearing and the nature of the alleged misconduct not later than 48 hours prior to the time set for the hearing. This notice can be waived by a mutual agreement.
17. A student respondent shall have the liberty to admit to the misconduct with explanation and avoid a full disciplinary hearing. Once the Disciplinary Officer has heard the admission with or without "explanation" he/she shall advise the student of his/her decision regarding a disciplinary penalty. The student may accept this decision or may request a full hearing of the Student Disciplinary Board. In the latter case, the

Disciplinary Officer will disqualify him/herself from hearing the case and refer the complaint to the second Disciplinary Officer. A student respondent who accepts the decision made by the Disciplinary Officer shall not have the right to an appeal subject to the complainant's right of appeal.

In the event that a student respondent fails or refuses to comply with the disciplinary penalty and/or fine imposed hereunder, the Disciplinary Officer shall recommend to the Appeal Board the suspension and/or expulsion of the person from the University and shall provide notice of his/her recommendation to the person.

18. At the commencement of any hearing, the Chair of the Student Disciplinary Board shall ask the accused person to admit or deny the allegations of misconduct. In the event that the student respondent neither admits or denies the allegations, the Disciplinary Officer shall consider that the student respondent denies the allegations and require the complainant to provide evidence in support of the complaint.
19. The Student Disciplinary Board shall have the power to determine the procedure to be followed at any disciplinary hearing, but in every case shall provide both the complainant and the student respondent the opportunity to testify personally, to call witnesses and to make representations provided, however, that the complainant's case against a student respondent shall be completed prior to the student respondent's testifying or calling witnesses.
20. Both the complainant and the student respondent will normally present their cases without necessity of legal or other representation. In appropriate circumstances, the Student Disciplinary Board may allow parties to be assisted by an advisor, legal or otherwise, but in any case, where a person wishes to have representation, he/she shall so advise the Chair of the Student Disciplinary Board not less than 48 hours prior to the hearing.
21. In the event that a student respondent, having been given notice thereof, shall fail or refuse to attend the disciplinary hearing at the place and time set therefore, the Student Disciplinary Board shall conduct the hearing in the absence of the student respondent.

**Decision**

22. The Student Disciplinary Board shall, within five (5) days of the conclusion of a hearing, render the Student Disciplinary Board's decision in writing, setting out the reasons therein for the Student Disciplinary Board's decision. The decision of the Student Disciplinary Board shall be the decision of a majority of the Board. The student respondent and the complainant shall be sent a copy of the decision within two (2) days of the rendering of the decision, and a copy of the decision shall be forwarded to the President of the Students' Association, the President of the University and the other Disciplinary Officers.

## 20 Academic Integrity and Student Responsibility

---

### Disciplinary Penalties

23. The Student Disciplinary Board shall, on completion of the hearing, have the power to dismiss the complaint if the Board concludes that the student respondent did not engage in the alleged misconduct, or to impose any of the following penalties, if the Board concludes that the student respondent did engage in the misconduct:
- to the matter. Ten (10) dollars will be the amount normally levied in respect of administrative costs, but the University reserves the right to levy such amount as is appropriate in the circumstances of each case,
  - to levy such fine or penalty as the Student Disciplinary Board deems appropriate, but no monetary penalty in excess of the actual monetary amount of damage caused by the student respondent plus a fine of \$100.00 shall be levied in a case where the student respondent admits to the misconduct.
  - to recommend to the Appeal Board the suspension and/or expulsion of the student respondent from the University, and/or
  - to impose any other penalty that is deemed appropriate having regard to all the circumstances surrounding the complaint.
24. In the event that a student respondent fails or refuses to comply with the disciplinary penalty and/or fine imposed hereunder, the Disciplinary Officer shall recommend to the Appeal Board the suspensions and/or expulsion of the person from the University and shall provide notice of his/her recommendation to the person.
25. There shall be an Appeal Board consisting of three persons to be appointed as follows:
- one faculty member to be appointed by the Senate,
  - one member of the Administration Staff of the University to be appointed by the President of the University, and
  - one student to be appointed by the Student's Council.
- An alternate for each of these persons shall be designed as in 25. (a),(b) and (c).
26. The following people are not eligible to serve on the Appeal Board:
- Student Security,
  - Residence Assistants,
  - Residence Security, and,
  - Disciplinary Officers.
27. The Faculty member shall act as chairperson of the Appeal Board.

### Appeals Procedure

28. If either complainant or the student respondent feels aggrieved by the decision or penalty imposed by the student Disciplinary Board, they may file a written notice for consideration of an appeal with the Appeal Board within five (5) days of receiving notice of the decision of the Student Disciplinary Board. A person filing a Notice of Appeal shall, at the time of filing the Notice, pay to the University a deposit of \$25.00. If the

appellant is successful in the appeal, the deposit shall normally be refunded to him/her.

29. The grounds for an appeal shall be limited to:
- disclosure of new and relevant evidence not available at the original hearing, and/or
  - severity of the penalty.
- The Chairperson, in consultation with the board members, shall consider the relevance of the student's appeal on these grounds prior to setting an appeal hearing. If the Appeal Board finds that grounds do not exist then the appeal is to be denied and the chairperson shall notify the appellant within 48 hours.
30. Once it has been determined that an appeal is warranted, the Chairperson of the Appeal Board shall set a time and place for the hearing of the appeal. An appeal shall normally be heard within five (5) University business days from the date of the filing of Notice of Appeal. The chairperson shall inform the complainant, the student respondent and the Disciplinary Officer of the time and place for the hearing. He/she shall also make known the grounds for an appeal as outlined in 25. (a) and (b).
31. The Appeal Board shall have the right to determine its own procedure, but in every case shall give both the complainant and the student respondent the right to make representations. Both the complainant and the student respondent will normally present their cases without legal or other representation. In appropriate circumstances, the Appeal Board may allow parties to be assisted by a representative (legal or otherwise), but in any case, where a person wishes to have representation, he/she shall so advise the Chairperson of the Appeal Board not less than 48 hours prior to the hearing.
32. Upon hearing any Appeal, the Appeal Board may confirm the decision of the Student Disciplinary Board or vary the decision in any manner which it deems appropriate. In any case where the Appeal Board has decided to suspend/expel a person from the University, it shall forward the decision to the President of the University for approval.
33. The decision of the Disciplinary Appeal Board shall be the decision of a majority of the Board, and shall be made known to all interested parties in accordance with the manner set out in paragraph 22 herein.

### Fines, Etc.

34. All fines or other money received pursuant to this Student Disciplinary System shall be paid to the general account of the University. The Chairperson of the Appeal Board shall ensure that, where appropriate, any funds so received are credited to the University Department concerned.

### Offenses Against Security Officers

35. Where the Student Disciplinary Board has found that a student respondent has committed an assault upon a Security Officer (including, without limitation, members of the Student Security Force, Residence

Assistants, Residence Security Officers) the Student Disciplinary Board shall recommend to the Appeal Board the suspension and/or expulsion of the person from the University and shall provide notice of its' recommendation to the person.

- e. the decision of the committee shall be final and shall be communicated to the bonded student, with copies to the Residence Coordinator and Director, within five (5) days of the hearing.

**General**

- 36. In this Disciplinary System, unless otherwise specified, "days" shall mean University Business days.
- 37. The Student Disciplinary Board acting in respect of a complaint, or the Appeal Board in the case of an appeal, shall have the power to extend or waive any of the time limits contained herein if it considers that it is necessary in the circumstances and that it would not prejudice any of the parties involved.

**University Housing Disciplinary Procedures**

- 38. All students who reside in University housing must abide by the Saint Mary's University Student Discipline Code and by the policies and regulations set out in the Residence Handbook, Residence Agreement, and the University Calendar.
- 39. Residence Assistants (RA), Residence Coordinators (RC), and Residence Security Officers (RSO) shall be empowered by the Director of University Residences to issue bonding notices for misconduct which would not normally be heard through the Student Discipline Code including:
  - a. non-evacuation during a fire alarm/emergency,
  - b. excessive noise and/or violation of Quiet Hour Policy,
  - c. mischief/disruptive behaviour,
  - d. violation of Liquor Policy,
  - e. playing hallway games,
  - f. violation of Smoking Policy,
  - g. violation of Guest and/or Visitor Policy.
- 40. The bonding Notice may be in the form of a warning only or a bond in the amount of \$50.00. The bond becomes payable within two business days of the date of a second bond being issued. One copy of the Bonding Notice goes to the student, a second to the RA, RC or RSO and a third to the Director. Within twenty-four hours of issuing a Bonding Notice, the RA/RC/RSO must complete an incident report copying the student, the RA/RC/RSO and the Director.
- 41. Appeals of a Bonding Notice will be heard by a Residence Discipline Committee, which shall be scheduled as follows:
  - a. the committee will be called together by the Residence Coordinator of the residence in which the bonded student lives,
  - b. the committee shall consist of five residence student members who shall represent a cross-section of all residences. Committee members shall be selected by the Director, University Residences through an interview process (See Article 26 for eligibility requirements).
  - c. three members shall constitute quorum of the committee,
  - d. the Chairperson of the committee shall be chosen by a majority vote of the committee members, and

## Academic Regulations

### Philosophy behind Academic Regulations

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

The information, regulations, and guidelines contained in this section apply to all graduates students at the University. Additional regulations pertaining to graduate programs are in the Section 3 of the Calendar.

**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.

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

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

## Admissions

### 1. Admission Requirements

**a.** Admission is limited and at the discretion of the Program Coordinator and the Dean of the Faculty of Graduate Studies and Research (FGSR). General, as well as program-specific admission requirements (see individual graduate program descriptions), have been established as a guide to applicants. Possession of these minimum requirements does not establish the right of the applicant to be admitted or readmitted to the University. The University reserves the right to accept or reject any applicant. An acceptance is valid for the starting date and semester identified in the letter of acceptance. It cannot be advanced or deferred. An applicant who does not register for the specified initial semester must reapply for admission. Admission is not guaranteed.

**b.** 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.

**c.** To be considered, an applicant shall hold a bachelor's degree or its equivalent with a minimum GPA of 3.0 (on a 4.3 scale) from an institution recognized by the Senate and shall have a knowledge of the proposed field of specialization satisfactory to the graduate program concerned. Individual programs may have a higher requirement.

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

**e.** Students whose first language is not English, and who have not attended an English language secondary school or have a previous degree completed totally in English, 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 minimum standards for admission to the University are listed below. The Master of Applied Economics, Master of Technology Entrepreneurship and Innovation, MBA, Ph.D. Business Administration (Management), MA in IDS, the PhD in IDS and the PhD in Applied Science have requirements greater than those listed here (see the individual graduate program descriptions for details).

- Test of English as a Foreign Language (TOEFL)
  - minimum 550 on paper-based
  - minimum iBT 80, with no band below 20
- International English Language Testing System (IELTS) – minimum 6.5 with no individual score below 6.0
- CanTEST – minimum 4.5 with no individual score below 4.0
- Canadian Academic English Language Assessment (CAEL) – minimum 60 with no individual band below 50
- University of Cambridge ESOL Examinations Certificate of Advanced English (CAE) with grade of A, B or C
- Pearson PTE score of 58
- English for Academic Purposes Level 6 administered by the Language Centre at Saint Mary's University

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

- (i) Educational Testing Service (TOEFL)  
Box 899

Princeton, New Jersey 08514 U.S.A.

- (ii) Cambridge Examinations in English  
Local Examinations Syndicate  
Syndicate Buildings  
Cambridge, England
- (iii) For the CanTEST or CAEL:  
The Language Centre  
Saint Mary's University  
Halifax, Nova Scotia B3H 3C3 Canada  
Phone: 902-420-5691  
Fax: 902-420-5122  
E-mail: tesl@smu.ca
- (iv) For the IELTS:  
IELTS Scheme Officer  
University of Cambridge Local Examinations  
Syndicate  
1 Hills Road  
Cambridge UK  
CB1 2EU

Students whose first language is not English should note Regulation 15, below.

**Note:**

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

**2. Procedure for Admission**

- a. Application for admission shall be made online. Applicants shall arrange to have forwarded official transcripts of their entire post-secondary academic record and Recommendation Forms from at least three persons in a position to judge the applicant's capacity for graduate study. Several programs require additional information. Details may be obtained by consulting the Faculty website at <http://www.smu.ca/academics/graduate-application-forms-and-requirements.html>.
- b. The submission date for online applications and forwarding of all supporting documents to the FGSR Office varies with program, but unless otherwise stated, is before February 1 of the academic year prior to the one for which admission is sought. Submission of the application by the required date is particularly important if the applicant wishes to be considered for financial support.

Applicants should read carefully the detailed description of the individual graduate programs within the Academic Calendar for any additional program-specific admission requirements.

- c. Successful applicants will be notified by the Dean of the FGSR.

**3. Admission as a Visiting or Upgrading Student**

Students who are enrolled in a graduate degree program at another university, or who hold an undergraduate or graduate degree but are not currently enrolled in a graduate program, may be admitted to take courses within the FGSR as a Visiting or Upgrading student, respectively. Permission to take graduate courses as a Visiting or Upgrading student in the FGSR requires approval from the relevant Program Coordinator. Students would be charged per-course fees for each course (see Section 4 of the Graduate Studies Academic Calendar). Prospective students should submit a completed "Application Form for Visiting, Upgrading and Reactivation Students" available on the FGSR website (<http://fgsr.smu.ca/>). If Visiting Students wish to receive credit for a course taken at Saint Mary's towards their degree at their home institution, they should have a "Letter of Permission" from their home University.

**4. Advanced Standing**

- a. On the recommendation of the appropriate Program Coordinator and the Dean of the FGSR, a maximum of twenty percent (20%) of the credits required for a graduate degree in Astronomy (M.Sc.), Philosophy, Psychology, and Atlantic Canada Studies can be recognized for graduate courses previously completed at another recognized academic institution and not previously used in the fulfillment of the requirements for another degree. In the case of the MBA program, the maximum number of such advanced standing credits is thirty (30) credit hours; for the Ph.D. in Astronomy program, the maximum number is eighteen (18) credit hours; for the MA in History and the M.Sc. in Applied Science, the maximum number is six (6) credit hours; for the MA in Criminology and the MA in Theology and Religious Studies, the maximum number is three (3) credit hours;
- b. Advanced standing credit will not be awarded for less than a grade of B (or the equivalent).
- c. Credit will not automatically be recognized for university courses completed more than ten (10) years prior to the students' return to University study. The Dean's assessment of the number of credit hours that students must complete to satisfy their academic program is final.

**Registration**

**5. Registration**

- a. Registration of students in graduate programs shall take place at times indicated in this Academic Calendar.
- b. Students are not permitted to register until they have received notification of acceptance.
- c. Except for students on Leaves of Absences, students must register in every semester (including the summer) until completion of all requirements for their degree.
- d. Depending upon the individual graduate program, students are designated as full-time or part-time. For descriptions of full-time versus part-time study, applicants are advised to check carefully Regulation 8, below, and the detailed description of the individual graduate programs

## 24 Academic Regulations

---

within the Academic Calendar. For those programs which allow either full-time or part-time registrations, the status of an individual student will be identified in their letter of acceptance. Changes to a student's status after acceptance requires permission of the Program Coordinator and the Dean of the FGSR.

### 6. 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. Students will receive primary advising on course selections from their Graduate Program Coordinator and/or their thesis supervisor.

### 7. Payment of Fees

a. For all current students enrolled in the MBA, MBA-CPA and Graduate Diploma in Co-operative Management programs, fees per semester are based upon the enrolled courses that semester (i.e. a Per-Course-Fee Basis). Students in all other graduate programs have their fees assessed on a Program-Fee Basis. Program-Fee students are charged a fee for their entire program, charged once, or in multiple installments over the minimum time-for-completion period of their programs (for details see the Minimum Time-for-Completion Table in Regulation 19.b. below, the Annual Program Fee Tables in Section 4 of the Graduate Programs Academic Calendar, the Annual Program Fee Tables on the Financial Services Web Site, or contact the FGSR Office). Graduate students must register in three semesters per year (including summer). Annual program fees will normally be assessed over these three semesters.

b. Only during the minimum time-for-completion of the program will full-time students be eligible for funding from the FGSR. Part-time students are not eligible for funding from the FGSR. Normally students who receive a FGSR Fellowship or FGSR Graduate Award will receive their funds (less fees) in three installments, one at the beginning of each semester, provided they have registered early.

#### Note:

For the proper assignment of fees and scholarship funds, students not registered in any course work but working on their program/thesis must register in Program Continuation (FGSR9000) for every semester (including summer) in which they are in their graduate program. MBA students not registered in any courses but completing a major research project (MRP) in a given semester must register in MRP continuation.

### 8. Full-time versus Part-time Status

a. For all graduate students who started their programs prior to September 2004, and for students enrolled in the MBA, program (i.e. in Per-Course Fee programs, see Regulation 7, above), full-time or part-time status is identified by course load within the semester. Students must formally register for all courses.

b. For all other graduate students (i.e. those in Program Fee Based graduate programs), full-time and part-time status is defined as below:

- (i) **Full-Time:** a student who is enrolled in a program of study, who makes demands upon the resources of the institution by enrolling in courses, engaging in research, and/or writing a thesis/report under continuing supervision. These students will normally be geographically available to the university, will visit the campus regularly, and will not be engaged in full-time employment (on or off campus) while registered as full-time students (except while undertaking program defined requirements such as co-op work semesters, practica, and internships), and will be in pursuit of their studies as a full-time occupation.
  - (ii) **Full-Time Continuing:** Full-Time Continuing: a student who is enrolled in a full-time program of study who is beyond their minimum time-for-completion (see Regulation 19, below), who makes demands upon the resources of an institution by enrolling in courses, engaging in research, and/or writing a thesis/report under continuing supervision. These students will normally be geographically available to the university, will visit the campus regularly, will not be engaged in full-time employment (on or off campus) and will be in pursuit of their studies as a full-time occupation.
  - (iii) **Part-Time:** a student who is enrolled part-time in a program of study in an approved graduate degree, certificate, or diploma program. These students will normally be engaged in completing 50% or less of the program requirements per semester.
  - (iv) **Part-Time Continuing:** Part-Time Continuing: a student who is enrolled part-time in a program of study, who has exceeded the minimum time-for-completion of their program (see Regulation 19, below). Note: Part-time Continuing is the normal, default status for students beyond their minimum time-for-completion of their program registered as Thesis Continuation.
- c. Regarding full-time (FT) and part-time (PT) status of students in Program-Fee Based graduate programs, please note the following:
- (i) Graduate students will be designated as FT or PT by their Graduate Program Coordinators.
  - (ii) Following admission, changes in registration status from FT to PT or vice-versa will be allowed ONLY with the permission of the Program Coordinator and the Dean of the FGSR and only when the student's situation changes so as to satisfy the above definitions.
  - (iii) Only during the minimum time-for-completion of the program will FT students be eligible for funding from the FGSR. PT students are not eligible for funding from the FGSR.

d. For all students beyond their residency periods (see Regulation 19 below) and on Thesis or Program Continuation, the default status of their graduate program is Part-time Continuing.

### 9. Auditing Courses

With permission of their thesis supervisor, program coordinator, and the course instructor, students may audit courses but they must formally register as auditors in these courses. Auditors participate in all regular class activities, but are not expected to prepare formal assignments, write papers, or take quizzes, tests, or examinations. With the

permission of the instructor, however, they may perform these activities and receive an informal evaluation of their work. Audited courses are not given credit hours or regular grades but the notation of AU is included on the students' official record. Within the normal time limits for changing courses, students may request permission to change from regular registration status in a course to auditing status or vice versa.

## 10. Course Changes

**a.** Course changes should only be made with the approval of the Program Coordinator.

**b.** 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.

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

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

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

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

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

## 11. Withdrawing from a Course

**a.** Students may only withdraw from a course with the permission of the Program Coordinator.

**b.** In the case of any course, after the time limits indicated in 10c above have expired, and provided the course still has one quarter of the instruction time remaining, 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.

**c.** 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.

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

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

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

### Notes:

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

(ii) Students should note that the deadlines for academic withdrawal differ from those for financial adjustment and possible refund of tuition and related fees.

## 12. Retaking a Course

**a.** With the permission of the Program Coordinator, students may retake a course. Only the most recent grade is included in the cumulative GPA, even if this is a lower grade.

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

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

### 13. Transfer Credit Hours

**a.** While registered in graduate programs at Saint Mary's University, students may be authorized by the appropriate Program Coordinator and the Dean to take a course(s) at another academic institution for transfer credit hours to an academic program at Saint Mary's. Students seeking such permission must apply to the Dean using the Letter of Permission form, available from the Service Centre. They should complete the application and submit it along with a letter to the Dean of the FGSR (for Arts-based programs), the Associate Dean of the Sobey School of Business (for Commerce-based programs), or the Dean of Science (for Science-based programs). The letter of application should state why the student wishes to take the course at another institution, how the requested course fits into the student's academic program, and whether it has been determined that no equivalent or other suitable course is available at Saint Mary's University. A full description of the course(s) for which transfer credit hours are requested must be included. The description from an academic calendar may suffice. Students are responsible for completing the proper application and registration procedures at the designated institution.

**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).

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

**d.** Although grades for courses taken on a Letter of Permission at other institutions will be recorded on the students' transcript, no transfer credit hours will be given for courses with grades below B (or the equivalent).

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

### 14. Withdrawals from Programs

**a.** To withdraw from a graduate program for non-academic reasons, students must notify the FGSR in writing through their Program Coordinator. After a withdrawal from a graduate program, if a student wants to be readmitted and is in a position to resume her/his studies, she/he is required to reapply for admission. The Program Coordinator will be responsible for recommending the terms of readmission, including the outstanding academic requirements and the deadline for completion of the entire graduate program. The final decision on approval for readmission will be made by the Dean of Graduate Studies and Research.

**b.** Failure of any course ordinarily will require withdrawal from the program. In exceptional circumstances, the Program Coordinator and the Dean of the FGSR may allow the student to remain in the program. In such a case, failure of a second course will require withdrawal from the program.

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

## Program of Study and Research

### 15. Language of Instruction and Examination

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

### 16. Program Requirements

**a.** Students entering with an honours degree (or equivalent) must complete a minimum number of credit hours of course work as defined by the program (see detailed descriptions of the individual graduate programs in Section 3 of the Graduate Studies Academic Calendar) and, where applicable, submit an acceptable thesis or masters research project (MRP). In some programs, a master's degree or graduate diploma may consist of course-work only and no thesis or MRP (e.g., M.Sc. in Astronomy). The course requirements for such non-thesis programs are described in the detailed description of the program. Courses in all programs must be at the 5000 level or above, but where advisable, courses at the 4000 level may be included in a program, provided that the requirements applying to graduate students in such courses are of a graduate standard. It is the particular responsibility of students to ensure that they meet all their program requirements within the regulated time-for-completion of their graduate programs (see Graduate Academic Regulation 19).

**b.** A student may be required to audit a course as part of the program of study (see Regulation 9, above).

**c.** In order to graduate, a student must obtain a degree grade point average (DGPA) of at least 3.00 out of 4.3 (see Regulations 29 and 30 below)

**d.** Where required, a student shall submit a thesis on a subject approved by the Program Committee in which research has been conducted under the direction of a supervisor appointed by the appropriate Program Committee. An oral defense in the presence of an Examining Committee appointed by the Program Coordinator and the Dean of the FGSR is mandatory. The minimum requirements for the composition of the Examining Committees are:

(i) the Thesis Supervisor

- (ii) an examiner who may have been previously involved in the supervision of the student's thesis research
- (iii) an "external" examiner who has not been previously involved in the supervision of the student's thesis research; for PhD Examining Committees, the external examiner must be an expert in the thesis topic, external to Saint Mary's University, and not in a conflict of interest with either the PhD candidate or his/her supervisors.
- (iv) a neutral Chair (normally the Program Coordinator or the Dean of the FGSR or their delegates)

**e.** The thesis must be ruled acceptable by the Examining Committee. Any suggestions by the Committee concerning corrections, additions and other necessary changes must be either completed or formally refuted by the student to the satisfaction of the Examining Committee before the thesis/major research project can be accepted. For details on the examination/defense procedures for thesis/major research paper/project, students should contact their Program Coordinator.

**f.** To be eligible for graduation, the student's completed thesis must be submitted with the consent of the Supervisor/Supervisory Committee to the Program Coordinator with enough time for the thesis to be distributed, reviewed, examined in an oral defense, revised, copied and submitted to the Registrar before Senate meets to approve the list of graduates. Although this date varies each year, a good rule is that the thesis should be submitted to the Program Coordinator one month before the end of classes for a spring convocation or by August 15 for a fall convocation. Students should contact the FGSR Office to be informed of the specific recommended date for submission of the thesis to enable processing time for Convocation.

**g.** Changes in either the program of courses or the topic of the thesis require the approval of the Program Committee.

**h.** In graduate programs which require a thesis, a person external to Saint Mary's may be appointed as the student's primary thesis supervisor, so long as that person holds the title of Adjunct Professor at Saint Mary's University during the period of thesis supervision. Professors of partner universities who are involved in the delivery of joint programs are excluded from this requirement.

### **17. Thesis Handling - PhD Dissertations and Master's Theses**

- a.** The thesis/dissertation must be submitted using the formatting requirements found in the "Format Procedures" sheet, available at the Library, at Graduate Studies, and online at the University Archives web site. The formatting requirements include but are not limited to:
  - i. Typescript: Double spaced
  - ii. Margins: Left hand margin 4cm (1 ½"); all other margins 2.5 cm (1"). All text, including page numbers, images, and charts must be within these margins.
  - iii. Abstract (may be single spaced) must be a maximum of 350 words for doctoral theses, and maximum 150 words for masters theses. Should bear the title Abstract and include the name of the author, the title of the thesis/dissertation, and the date of publication.
  - iv. The title page must include the names of all advisors/examiners but cannot contain any original

signatures. Students must include a separate Signature Page: A page designed to contain the signature of all members of the Examining Committee, including any external examiners, if applicable. Only one paper copy of the Signature Page should be submitted. It will not be bound in any copies of the thesis.

- v. The unbound thesis must be printed on good quality paper, measuring 8 ½" x 11" (21.5 cm x 29 cm)

- b.** The student must meet any other requirements of the Program concerned.

- c.** Print off one unbound paper copies of the thesis and, along with all required forms and attachments, submit them in-person to the Graduate Studies Office. The attachments include (see the Format Procedures sheet for details):

- i. The Thesis or Dissertation Information Sheet, provided by the Library or online at the University Archives.
- ii. One signed signature page (see above).
- iii. The National Library "Non-Exclusive License to Reproduce" form, and the UMI form. This grants permission for the microfilming or digitization of the thesis as part of the Theses Canada Portal, including distribution or sale of microfilm or digital reproductions.
- iv. Certificate of approval from the Research Ethics Board, if one was obtained for the theses dissertation.
- v. Copyright permission forms, if required.

- d.** The student must prepare an electronic copy of their thesis/dissertation, in PDF format (see the "Format Procedures" sheet for more information). Prepare one electronic version of the thesis using the requirements found in the Format and Binding Procedures sheet. This version will be submitted as an email attachment sent to [fgsr@smu.ca](mailto:fgsr@smu.ca).

- e.** Once submitted to Graduate Studies, the one paper copy and one electronic copy of the thesis or dissertation will be forwarded to the University Archives, where it is checked that it meets all required standards, including formatting requirements, required forms, etc. An unbound copy will remain in the University Archives, and the electronic copy will be made available in the University's Institutional Repository, where it will eventually be harvested by the National Library Thesis program. Copies of the student's Signature Page, as well as any REB forms or copyright letters that contain original signatures will be kept on file at the University Archives.

### **18. Major Research Project (MRP) Handling**

- a.** The Major Research Project (MRP) must be submitted using the formatting requirements found in the Format Procedures sheet, available at the Library, at Graduate Studies, and online at the University Archives web site. The formatting requirements include but are not limited to:
  - i. Typescript: Double spaced
  - ii. Margins: Left hand margin 4cm (1 ½"); all other margins 2.5 cm (1").
  - iii. Abstract (may be single spaced) must be a maximum of 300 words. Should bear the title Abstract and include the name of the author, the title of the MRP, and the date of publication.
  - iv. The title page must include the names of all

## 28 Academic Regulations

---

advisors/examiners but cannot contain any original signatures.

- b. The student must meet any other requirements of the Program concerned.
- c. If a student wishes to have their MRP available on the University's Institutional Repository, they must prepare an electronic copy of their MRP, in PDF format (see the "Format Procedures" sheet for more information) and submit it as an email attachment sent to [theses@smu.ca](mailto:theses@smu.ca).
- d. If submitting an MRP for the University's Institutional Repository, the following forms must be submitted to the Saint Mary's University Archives (see the Format and Binding Procedures sheet for details):
  - i. Signature page.
  - ii. Certificate of approval from the Research Ethics Board, if one was obtained for the MRP.
  - iii. Copyright permission forms, if required.
- e. Once the forms and electronic copy of the MRP are submitted to the Saint Mary's University Archives, it is checked to ensure it meets all required standards, including formatting requirements, required forms, etc. The electronic copy will be made available in the University's Institutional Repository. Copies of the student's REB forms or copyright letters that contain original signatures will be kept on file at the University Archives.
- f. The University does not arrange for the binding of personal copies of MRPs. A list of outside vendors who provide this service can be found on the University Archives web site.

### 19. Times-for-Completion of Graduate Programs

- a. The normal academic year of the FGSR is composed of three 4-month semesters running from September 1 to August 31. Full-time students will normally complete their studies through a series of consecutive 4-month semesters. (e.g., three semesters will constitute 12 months of continuous full-time study; six semesters will constitute 24 months of continuous full-time study).
- b. The FGSR has established normal minimum (often referred to as residency period) and maximum completion times for each program (see following table). Normally, Full-Time (FT) students will complete their program within the defined time periods. For Part-Time (PT) students, the minimum period will be double that defined for FT students.
- c. If a student (FT or PT) does not complete the program within the minimum period, they must be registered as a FT Continuing or PT Continuing student until they complete the program, provided they do not exceed the maximum time for completion of a program (see Regulation 8, above).
- d. If a student (FT or PT) does not complete their program within the maximum period, they are not entitled to continue their program, unless they have applied for and been granted an Extension to their graduate program (see Graduate Academic Regulation 20).

### 20. Extensions to Graduate Programs

- a. Circumstances may sometimes justify an extension to a student's graduate program beyond the normal maximum time-for-completion identified above. An extension to a graduate program may be considered under any of the following conditions which have interfered with the student's ability to complete her/his Program within the normal maximum time-for-completion:
  - (i) Illness, family strife, or unforeseen family responsibilities\*
  - (ii) Pursuit of an employment opportunity which makes a positive contribution to the student's Graduate Program\*
  - (iii) Unforeseen difficulties in pursuit of the thesis research beyond the control of the student.

**\*Note:** In cases (i) and (ii) above, it is highly preferable that students apply for Leave of Absences (see below) from their Programs at the time of the incident/situation.

- b. A student applying for an Extension should submit a written request on the appropriate FGSR form (available on <http://fgsr.smu.ca/>) to their Program Coordinator. The request should include a letter of support from the student's research Supervisor or Supervisory Committee, together with a letter describing in detail the reasons for the requested Extension and supporting documentation, where applicable, certifying the facts surrounding the request. After the Program Coordinator has reviewed and approved the Extension application, it will then be forwarded to the FGSR. The decision of the Dean of the FGSR is final and (s)he will notify the student of the decision on their application.
- c. Extension to a Program will be for a maximum of 1 year in length per request. Extensions can be granted only twice for Master's programs and only three times for PhD programs. Students at or beyond their normal maximum Program period who are denied Extensions will not be able to continue their Graduate Programs. Students who do not complete their Programs within the maximum number of allowable Extensions will not be able to continue their Graduate Programs. Extensions will not be granted retroactively to a student who has failed to register for one or more previous semesters and is beyond their normal maximum Program period.

<b>Minimum and Maximum Time-for-Completion of Graduate Programs</b>				
<b>Graduate Program</b>	<b>Minimum number of years (semesters)</b>		<b>Maximum number of years (semesters)</b>	
	<b>Full-time</b>	<b>Part-time</b>	<b>Full-time</b>	<b>Part-time</b>
MA Atlantic Canada Studies	2 (6)	4 (12)	5 (15)	7 (21)
MA Criminology	2 (6)	4 (12)	5 (15)	7 (21)
MA Geography	2 (6)	4 (12)	5 (15)	7 (21)
MA History	1 (3)	2 (6)	4 (12)	5 (15)
MA International Development Studies (Category I)	2 (6)	4 (12)	5 (15)	7 (21)
MA International Development Studies (Category II)	1 (3)	2 (6)	4 (12)	5 (15)
MA Philosophy	1 (3)	2 (6)	4 (12)	5 (15)
MA Theology and Religious Studies	1 (3)	2 (6)	4 (12)	5 (15)
MA Women and Gender Studies	2 (6)	4 (12)	5 (15)	7 (21)
MAEC	1 (3)	2 (6)	4 (12)	5 (15)
MFIN	1 (3)	NA	2 (6)	NA
EMBA*	2 (6)	NA	2 (6)	NA
MBA	2 (6)	4 (12)	5 (15)	7 (21)
MBA (Accelerated)	1 (3)	2 (6)	4 (12)	5 (15)
MBA – CPA**	NA	3 (9)	NA	6 (18)
MMCCU	NA	3 (9)	NA	5 (15)
Graduate Diploma in Co-operative Management	NA	1.7 (5)	NA	2.7 (8)
M of Technology Entrepreneurship and Innovation	1.3 (4)	NA	2.7 (8)	NA
MSc Astronomy	2 (6)	4 (12)	5 (15)	7 (21)
MSc Applied Psychology	2 (6)	4 (12)	5 (15)	7 (21)
MSc Applied Science	2 (6)	4 (12)	5 (15)	7 (21)
MSc Computing and Data Analytics	1.3 (4)	2.7 (8)	2.7 (8)	5.3 (16)
Master of Applied Health Services Research	2 (6)	4 (12)	5 (15)	7 (21)
PhD Applied Science	3 (9)	NA	7 (21)	NA
PhD Astronomy	4 (12)	8 (24)	7 (21)	10 (30)
PhD Business Administration - Management	3 (9)	NA	6.3 (19)	NA
PhD Industrial & Organizational Psychology	3 (9)	6 (18)	7 (21)	10 (30)
PhD International Development Studies	3 (9)	6 (18)	7 (21)	10 (30)
Time-for-completion for Full-time and Part-time refers to students' status when admitted into programs and applies throughout their programs, regardless if their status changes during the programs.				
*Full-time "lock-step" program with defined courses in a prescribed sequence.				
**Part-time "lock-step" program with defined courses in a prescribed sequence.				
NA = Not Applicable				

## 21. Leave of Absences

Leave of Absences from graduate programs for periods of up to a maximum of 1 year (3 semesters) may be granted. Leaves of Absences can be granted only twice for Master programs and only three times for PhD programs. Requests for a Leave of Absence (forms available from the FGSR office and website) must be supported by documentation explaining exceptional personal circumstances which would prevent research and/or coursework being undertaken during the period of time for which the leave applies. The decision of the Dean of the FGSR is final. If a leave of absence is granted, the student is considered to be inactive in the program during the period of exemption and must pay the appropriate fees as outlined in Section 4 of the Graduate Studies Academic Calendar. Time spent away from one's graduate program while on a Leave of Absence, does not contribute to the time-for-completion. Students are expected to apply prior to or during the term for which the leave will take place. Students returning from a leave of absence must

re-activate their status by filing an application for Visiting, Upgrading and Reactivation Students (available from the FGSR office and website). Reactivation of a student's program must be approved by the Program Coordinator and the Dean of the FGSR.

## Evaluations and Grading

### 22. Grading System

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

b. **On the first day of class for a course**, instructors must provide students with a written copy of the course outline. The outline must conform to the Senate Policy on Course Outlines. In accordance with the Policy, the outline

## 30 Academic Regulations

must include the grading system to be used in the course. The grading system includes 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 final letter grades. Subsequent changes to this system must also be made available to students in writing. A copy of the course outline and any subsequent changes to it must be placed on file in the office of the Department Chairperson and Dean of the Faculty at the time when they are distributed to the students.

c. Instructors must also inform students in writing on the first day of class of any “in-class” test which will be scheduled outside of the regular instructional hours of the course. Students who cannot write the test outside of class time must be offered reasonable accommodation. Students must give the instructor a minimum of a two week notice.

### 23. Graduate Ratings, Grades and Grade Points

a. Letter grades and grade points for graduate courses will be assigned as follows. These are the grade points for six (6) semester hours. Three (3) semester hour courses carry 50% of these grade points.

A+	= 4.30	= Exceptional
A	= 4.00	= Excellent
A-	= 3.70	= Very Good
B+	= 3.30	= Good
B	= 3.00	= Satisfactory
B-	= 2.70	= Substandard
C	= 2.00	= Marginal
F	= 0.00	= Failure
P	= —	= Pass
IP	= —	= In Progress

b. The P (Pass) grade is only applicable for evaluation of theses in programs which grade the theses according to a pass/fail regime. The P grade is not calculated in grade point averages. The IP (In Progress) grade is applicable for graduate level courses, theses, dissertations, major research paper/project (MBA), and practicum courses; also for Co-operative Education work terms. For all graduate thesis, dissertation major research paper/projects and practicum courses, this grade can remain in effect until the expiration of the timeline for the completion of the individual student’s entire graduate program. For all other graduate courses, the IP grade is valid only for a maximum of twelve months beyond the last day of classes in the semester in which the course was taught. Thereafter, it becomes an F (“failure”) which is calculated into the student’s grade point average. The IP grade is not calculated in grade point averages.

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

Aegrotat	AE
Authorized withdrawal from a course	W
In progress	IP
Pass	P
Satisfactory	S

**Note:** This “S” grade is reserved exclusively for SMBA 0010/0020. Grades earned on advanced standing and transfer courses are also not included in the calculation of averages.

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

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

### 24. Examinations

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

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

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

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

(iii) In the Fall and Winter terms, tests and examinations individually or collectively contributing more than 10% of the overall evaluation of the course are not permitted to be held during the last fourteen calendar days preceding the end of classes except as noted below in iv. End of term tests and examinations are to be held during the final assessment period as specified in sections, 23 a. and b.

(iv) Prior to the first class date, the Dean of the Faculty may authorize a lab examination worth more than 10% of the final grade within the last 14 days preceding the end of classes. A lab examination requires the use of lab resources.

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

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

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

**g.** The University acknowledges that due to the pluralistic nature of its community, some students may, on religious grounds, require alternative times to write tests and examinations. Accordingly, a student who requires an alternative test or examination time on these religious grounds should consult with the Dean of the Faculty in which the course is offered regarding alternative arrangements. Such a request must be made in writing within one week of the announcement of the test or examination date.

**h.** Participation in university sanctioned activities and events may occasionally conflict with exam schedules. Students experiencing such conflicts should follow the instructions in g. (above)

**i.** In the case of courses delivered at extension centres, midterms and final examinations will take place at the extension centre. If the location is within the Halifax Regional Municipality, the final examination may be held on the Saint Mary's University campus, with the approval of the Dean of the Faculty.

**j.** In the case of distance education courses taught via the internet or other means, the course outline will specify if midterms and final examinations will be either held online or at locations in reasonable proximity to the students. Remotely offered examinations must be invigilated by an invigilator (proctor) that is approved by the course instructor. The Division of Continuing Education will be responsible for working with the student to make arrangements for the test location and invigilation.

**k.** Supplementary examinations are not offered.

## 25. Evaluations

**a.** At the end of each semester, instructors must submit to the Registrar, through Self-Service Banner, their evaluations of all students registered in their courses. For six credit hour courses taught over two terms (i.e., designated .0), interim grades will be submitted at the end of the first semester and final grades at the end of the academic year. The time frames for the submission of mid-year and final grades to the Registrar are:

- (i) in the case of courses in which no formal examination was scheduled by the Registrar within the period designated by Senate for formal examinations, one week from the beginning of the examination period;
- (ii) in the case of courses in which formal examinations were scheduled by the Registrar within the period designated by Senate for such examinations, one week from the day on which the examination was written; and
- (iii) in the case of courses taught in Summer Sessions, grades are due no later than one week from the last day of instruction in the course.

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

**b.** Final grades are available on Self-Service one day after submission by the instructor. Grade reports are not produced.

**c.** 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.

**d.** Grades given at the end of a semester shall not be made known to students except by the Registrar. Under the FOI-POP legislation, it is not legal for members of faculty to publicly post grades without the written permission of the student.

**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.

At the start of each term, any blank grades from the previous term will be assigned a grade of F.

## 26. Special Examinations

A student, who, due to a serious illness or emergency, was detained or rendered unfit to write a required final examination, may appeal for a special examination. Elective arrangements (such as travel plans) are not considered acceptable grounds for granting an alternative examination time. A student who wishes to have such an appeal considered must:

- a. Within 48 hours after the end of the final examination, report, or have a representative report (in writing if possible), to the Instructor and the Dean of the Faculty in which the course is offered, intention to appeal for a special examination and
- b. Within one week after the end of the examination submit to the Dean a written request for a special examination. This request must be accompanied by an explanation of the circumstances which made it impossible for the student to write the regular examination and a medical doctor's report, or other document, which supports the appeal.
- c. The Dean's decision will be communicated to the student and the instructor within one week of receipt of the request.
- d. If the Dean approves the special examination, the responsibility for setting and conducting special examinations will lie with the instructor and the department. Special examinations should be completed as soon as possible and normally (i.e. wherever possible) as follows: for first term by Jan 31, for the second term by May 31, for summer session one by July 31 and for summer session two by Sept 30.

## 27. Credit Hours without Final Examination

Students who, for medical or compassionate reasons, have been unable to finish a course but who have satisfactorily completed the other requirements, may apply to the Dean of

## 32 Academic Regulations

---

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

### 28. Evaluation of Thesis/Program Progress

**a.** In graduate programs which require a thesis, students are required to submit a written annual report to their Program coordinator reporting on their progress over the previous year. Submission dates, formats and approval processes for the annual reports are defined by the individual programs. Assessment of student progress and actions coming forth from such assessments are as defined in regulations 28 d. below.

**b.** Aside from the annual report defined above, a student may be required to provide updates to the Supervisor/Supervisory Committee on the progress of their thesis research or overall graduate program from time to time. If required, a student will be given a minimum of thirty (30) days notice to provide an update to the Supervisor/Supervisory Committee. The update will be in the form of a meeting at which the student will present the written report on the research activities/progress and address questions and comments of the Supervisor/Supervisory Committee on the report and research progress.

**c.** The Supervisor will prepare a report on the student's progress using the form available from FGSR. The report must be witnessed by the student's signature and the student is free to make comments regarding the report. The report, which will include an evaluation at one of the three assessment levels indicated below, will be sent to the Program Coordinator for signature and forwarded to the Dean of the FGSR. These evaluations become part of the student's record within the FGSR, but are not recorded on the student's transcript.

**d.** The progress in a student's program can be assessed at three levels:

- (i) Satisfactory
- (ii) Unsatisfactory - In Need of Improvement
- (iii) Not Acceptable

**e.** The actions coming forth from the assignment of the above grades are:

- (i) Satisfactory: The students' progress in their research relevant to the period of time working pursuing the research is at least sufficient in terms of quality and quantity. In the assessment, leeway must be given for problems that may arise in pursuit of the research which are beyond the reasonable control of the student. With a

Satisfactory rating, the student is recommended for continuation of his/her Program.

- (ii) Unsatisfactory - In Need of Improvement: Progress is not satisfactory. The students' progress in their research relative to the period of time working pursuing the research is insufficient in terms of quality and/or quantity. With an "Unsatisfactory" rating, the Supervisor's report on the progress of the student must include a timeline (minimum of 4 months; maximum of 12 months) with outcomes for the student to achieve within the specified period. After the specified period in the timeline, another update will be provided by the student per the procedures identified above. If the expected outcomes have been achieved successfully, a student will be assigned a "Satisfactory" rating. If the expected outcomes are not achieved in a satisfactory manner, the Supervisor's new report on the student's progress will include an assessment of "Not Acceptable."
- (iii) Not Acceptable: If the expected outcomes are not achieved and the Supervisor/Supervisory Committee concludes that the student will not succeed in completing the Program, the Supervisor/Supervisory Committee will note the rating of "Not Acceptable" in the Supervisor's report and forward this report to the Program Coordinator. The Program Coordinator will review the case and make an independent recommendation to the Dean of Graduate Studies and Research. Upon the recommendation of the Dean of Graduate Studies and Research, the student will be dismissed from their Program. Students who have received an evaluation of "Not Acceptable" and have received notice of dismissal have up to thirty (30) days to make an appeal in writing to the Senate Committee on Academic Appeals. (NOTE: The Supervisor/Supervisory Committee cannot change a student's assessment directly from a "Satisfactory" rating to "Not Acceptable". If a student's progress has been determined to be less than fully satisfactory, the student must be rated "Unsatisfactory - In Need of Improvement" and actions as defined above taken before a rating of "Not Acceptable" could be considered.)

## Academic Standing

### 29. Grade Point Average

**a.** Each letter grade is given a grade point equivalent as described in 23a above. A grade point average (GPA) is calculated by multiplying each grade by the number of credit hours, totaling the grade points and dividing by the total number of credit hours attempted. Grade point averages may be calculated for a semester, year, degree, program or cumulatively. Common grade point averages are described below.

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

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

d. Grades for courses taken at other institutions for which advanced standing is given *are not included* in calculations for a grade point average, a cumulative grade point average, or in calculations for determining awards and distinctions. Grades for courses taken on a Letter of Permission at other institutions are included in these calculations.

### 30. Standing Required

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

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

#### c. Good Standing

(i) Student are deemed to be in "Good Standing" if they have achieved a minimum cumulative grade point average (CGPA) of at least 3.00 out of 4.3.

(ii) Failure of one course ordinarily will require dismissal from the program. In exceptional circumstances, with a positive recommendation from the Program Coordinator, the Dean of the FGSR may allow a student who has not met these standards to remain in the program. In such a case, students will be required to demonstrate improvement within a defined period. Failure to do so will require dismissal from the program with the possibility to re-apply.

(iii) Failure of two or more courses will require dismissal.

(iv) In order to qualify for a graduate degree a student must obtain a degree grade point average (DGPA) of at least 3.00 out of 4.3.

#### d. Eligibility to Continue

Students in Good Standing are eligible to continue. In exceptional circumstances, the Program Coordinator and the Dean of the FGSR may allow students not in good standing to remain in the program. In such a case, students will be required to demonstrate improvement within a defined period. Failure to do so will require dismissal from the program.

#### e. Required Academic Counseling

Students whose academic performance at the University is unsatisfactory may be required by the Dean of the FGSR to

confer with their Program Coordinators and these Supervisors.

### 31. 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 dismissed, (i.e., the Committee's jurisdiction does not apply to individuals whose application for admission to a program at the University has not been accepted). Appeals shall be governed by the following procedures:

#### a. Appealing of Final Grades

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

(i) Students who wish to appeal a grade must first consult the instructor concerned within one month of receiving the grade and, if unsatisfied, should then consult the appropriate Chairperson and Dean. If the problem is still unresolved, students may forward the appeal to the Committee on Academic Appeals. This must be done in writing, through the Registrar, within three months from the last day of the semester in which the course is taken. This appeal statement must contain specifics as to when the instructor, the Chairperson, and the Dean were consulted, together with any other information the student considers relevant. A form to launch an appeal is available from the Registrar and students are strongly encouraged to use this.

(ii) It is the responsibility of students and instructors to provide the Committee with all relevant available material on which the grade was based. A student's course documentation should include grade history and any retained graded materials on which the student's grades were based (i.e. exercises, reports, papers, tests, examinations not returned to the student). This documentation shall be retained on-campus for a minimum of twelve months from the deadline of submission of grades.

(iii) The Committee will normally appoint two qualified examiners to review the evidence presented and reconsider the grade. The examiners will submit their report and the evidence reviewed to the Chairperson of the Committee.

(iv) On the appeal for a change of grade, the decision of the Committee shall be final.

#### b. Other Appeals

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

(i) Normally within one month of the event or the decision being received by the student, the student shall submit the appeal in writing and direct it to the Committee on Academic Appeals through the Registrar.

(ii) The Chairperson of the Committee on Academic Appeals shall forward a copy of the appeal to the Dean of

## 34 Academic Regulations

---

the appropriate Faculty, and, if relevant, to the Chairperson of the Department and the instructor.

(iii) On 5 May 1993, the Academic Senate of the University passed an Enabling Motion which reads in part "...that the Executive Committee of Senate [be] empowered to deal with all appeals concerning graduation which may be made prior to Convocation." Procedurally, these appeals are made to the Registrar.

### c. Decision

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

### d. Appeal of Committee's Decision

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

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

### e. Fee

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

#### Notes:

- (a) The appellants and instructors will be invited to appear before the committee(s) hearing the appeal.
- (b) Members of a committee cannot participate in the hearing of an appeal arising from an action to which they were a party.

## 32. Specific Requirements of Individual Graduate Programs

In addition to the requirements stated here, students must comply with any additional requirements of the individual graduate program in which they are enrolled. These are delineated in the individual graduate program descriptions in Section 3 of the Graduate Studies Academic Calendar.

## 33. Academic Integrity

See the section preceding Academic Regulations, entitled Academic Integrity and Student Responsibility

## Convocation and Academic Records

### 34. Convocation Dates, Degrees, Diplomas, and Certificates

- a. Students **MUST** file an Application for Graduation from a specific academic program with the Registrar by the dates stipulated in the University Calendar of Events
- b. There are three convocations annually: May, October and January. . Once all requirements are completed, students must graduate at the next Convocation.

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

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

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

e. The University grants the following graduate and honorary degrees:

Graduate Diploma in Co-operative Management  
Master of Applied Economics  
Master of Applied Health Services Research  
Master of Arts  
Master of Business Administration  
Master of Finance  
Master of Management - Co-operatives & Credit Unions  
Master of Science  
Master of Technology Entrepreneurship and Innovation  
Doctor of Philosophy  
Doctor of Civil Law, Honoris Causa  
Doctor of Commerce, Honoris Causa  
Doctor of Education, Honoris Causa  
Doctor of Fine Arts, Honoris Causa  
Doctor of Laws, Honoris Causa  
Doctor of Letters, Honoris Causa  
Doctor of Science, Honoris Causa

f. Details of the University's policies on the reissuing of parchments are available from the Registrar.

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

### 35. 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.

### 36. University Medals

At each Spring Convocation the following are presented:

#### a. Governor General's Gold Academic Medal

This medal is awarded annually to the graduate student deemed to be the top candidate at his/her level of study.

#### b. Faculty and Division Medals

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

#### Notes:

- (i) In the case of graduate degrees, students' entire graduate academic records will be considered.
- (ii) Students who graduate in Fall or January will be considered for medals at the next Spring Convocations.

### 37. Students' Academic Records and Transcripts

a. Students' academic records, including their official University files, are the property of the University. Access to those records and release of information from them will be governed by the University's policies and by the laws of the Province (Nova Scotia's Freedom of Information and Protection of Privacy Act, S.N.S. 1993, chapter 5) and the country (Personal Information Protection and Electronic Documents Act). As the University is committed to the integrity of its student records, students are required to provide, on their Application for Admission, their complete legal name. Any requests to change that name, by means of alteration, deletion, substitution or addition, must be made in writing to the Registrar and accompanied by appropriate supporting documentation. The University's official policy on this subject is contained in the pamphlet entitled, "Policy Regarding the Release of Information about Students". Copies are available from the Registrar.

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

Education Statistics, Statistics Canada, 150 Tunney's Pasture Driveway, Main Building 2100-K, Ottawa, ON K1A 0T6.

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

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

Further information as to timeframes and costs is available on request.

Transcripts include the following information:

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

d. Where appropriate, reference is also made to:

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

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

e. 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).

### 38. 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

## 36 Academic Regulations

---

where a safety policy is particularly relevant because of the special nature of the course, or because of the place of study, instructors will make it known to students in writing at the first class, or in the case of study programs outside Nova Scotia, before the program begins.

## 39. University Research Ethics Board

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

**Programs**

---

**Section**

**3**

## Faculty of Graduate Studies and Research

---

Dean	TBA
Associate Dean	Dr. Diane Crocker
Secretary to the Dean	Shane Costantino
Graduate Studies Officer	Heather Taylor
Research Grants Officer	Margaret Schenk
Program Assistant	Nicole MacDonald

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

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

Master of Applied Health Services Research  
Master of Arts in Atlantic Canada Studies  
Master of Arts in Criminology  
Master of Arts in Geography  
Master of Arts in History  
Master of Arts in International Development Studies  
Master of Arts in Philosophy  
Master of Arts in Theology and Religious Studies  
Master of Arts in Women and Gender Studies  
Master of Applied Economics  
Master of Business Administration  
Master of Business Administration - Certified Management Accountant  
Master of Business Administration – Chartered Professional Accountant  
Master of Finance  
Master of Management - Co-operatives and Credit Unions  
Graduate Diploma in Co-operative Management  
Executive Master of Business Administration  
Master of Science in Applied Psychology  
Master of Science in Applied Science  
Master of Science in Astronomy  
Master of Science in Computing and Data Analytics  
Master of Technology Entrepreneurship and Innovation  
Doctor of Philosophy in Applied Science  
Doctor of Philosophy in Astronomy  
Doctor of Philosophy in Business Administration (Management)  
Doctor of Philosophy in Industrial/Organizational Psychology  
Doctor of Philosophy in International Development Studies

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

The FGSR offers non-credit courses to aid in the professional development of our graduate students. These courses are optional and cannot be used to meet the academic requirements of individual graduate programs. Some courses are free, and others are offered on a cost-recovery basis. Students should consult with their thesis supervisor and/or graduate program coordinators before registering in any of these courses.

Immediately following are the descriptions of the graduate programs and the graduate course offering associated with each program.

### **7000 University Teaching for Graduate Students**

Prerequisite: Enrollment in a graduate program

Students will gain practical experience with a range of teaching and assessment methods, learn how to manage both large and small classes, and address teaching and learning issues particular to their disciplines. Participants will develop new course materials and try out various teaching approaches within a supportive peer cohort.

### **7001 Career Development of Graduate Students**

Prerequisite: Enrollment in a graduate program

Students are offered an interactive and hands on approach to navigating a fulfilling and successful career path. Students will explore personal, cultural and societal world views that influence career decision-making. Students will create a personal Career Sketch, a Career Self-Portrait, Career Statement and Possibility Plan to connect with employers, networks, contacts and others.

### **7002 PROgrad: Professional Development Workshops**

Prerequisite: Enrolment in a graduate program

This series offers students workshops on non-academic skills needed for diverse types of work environments. Workshops may include the following: project management, career development, media training, leadership and conflict management. See <http://fgsr.smu.ca> for details on specific workshops offered each academic year.

---

## Graduate Programs: Arts

---

In collaboration with the Faculty of Arts, graduate programs in eight areas are offered: Atlantic Canada Studies, Criminology, Geography, History, International Development Studies, Philosophy, Theology and Religious Studies, and Women and Gender Studies.

# Master of Arts in Atlantic Canada Studies

B. Brown	Program Coordinator, (Atlantic Canada Studies)
Professor	J. Reid, P. Twohig
Associate Professor	A. MacLeod, K. Kehoe
Adjunct Professor	R. Field, K. Mercer, C. Slumkoski, M. Walls

Saint Mary's University offers an interdisciplinary program in Atlantic Canada Studies (ACST) that integrates the teaching and research expertise of a number of faculty members from various Departments in Arts, Commerce and Science.

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 ACST.

## Admission Requirements

The MA in Atlantic Canada Studies follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition, normal qualification for entry into the two-year Master's program is an honours degree in ACST, or an honours degree in another discipline with substantial course content relevant to ACST, or a degree which the ACST Committee deems to be equivalent (i.e., to include at minimum a grade point average of at least B in the candidate's final sixty (60) credit hours taken at university). At the discretion of the Committee, a student may be admitted to the program subject to the prior completion of such qualifying work as the Committee shall prescribe. Once the student has embarked full-time on the Master of Arts program, the normal goal is completion within 24 months, although in some cases thesis work may extend beyond this time period. The degree may also be taken through part-time study.

For the minimum and maximum time-for-completion of the MA in ACST see the table associated with FGSR Academic Regulation 19 in Section 2 of this Academic Calendar.

## Financial Support

Full time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

## Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below. The ACST Coordinator will work with all Master's students from the earliest stages of their participation in the graduate program to determine the area of a thesis topic and to select a thesis supervisor. The thesis supervisor will be the Graduate Faculty Advisor for the duration of a given student's participation in the program.

For the Master of Arts in ACST, all students must complete an acceptable thesis. It is not possible to satisfy the requirement for a thesis by means of extra course work.

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.

All students must present and defend a thesis proposal and ultimately a thesis, before a Thesis Examining Committee. This Committee consists of a thesis supervisor, the ACST Graduate Studies Coordinator (or appointee), and a third reader acceptable to the thesis supervisor and the ACST Committee.

All ACST Masters students must complete ACST 6690 **Thesis Research**. Credit for the course will be awarded when the student completes and successfully defends their MA thesis. Supervisors may require a demonstration of language competence or extra course work as preparation for the treatment of certain thesis topics. [ACST 6690 counts for nine (9) credit hours of the total twenty-four (24) credit hours required for the degree].

In addition, all students must complete 5991 **Research Methods** [three (3) credit hours]— preferably in the first semester in which they are enrolled in the program. They must also complete a further twelve (12) credit hours of **course work** that includes **at least** nine (9) credit hours from **three** (3) of the four groups (A,B,C,D) listed below: (course selection must be approved by the ACST Graduate Studies Coordinator).

**Group A:**

- ACST 6621 Literary Cultures of Atlantic Canada
- ACST 6622 Material Cultures of Atlantic Canada
- ACST 6623 Cultural Studies: Theory and Method

**Group B:**

- ACST 6631 Environmental History of Atlantic Canada
- ACST 6632 Atlantic Canada Ecology and Resources — Contemporary Perspectives
- ACST 6633 Reading the Landscapes of Atlantic Canada — Ecological Connection to Place

**Group C:**

- ACST 6641 Atlantic Canada's Economic Development in Context.
- ACST 6642 Politics and Community in Atlantic Canada
- ACST 6643 Indigenous Peoples of Atlantic Canada: Contemporary Issues

**Group D:**

- ACST 6501 Public History
- ACST 6661 Reappraisals of Atlantic Canada's Past
- ACST 6662 The Atlantic Region, 1720-1870
- ACST 6663 The Atlantic Region Since 1870

## Graduate Courses (ACST)

### 5991 Research Methods

3 credit hours

In this seminar students will explore the nature of interdisciplinary research and examine the principles and techniques of different approaches to interdisciplinary topics, focusing on their own proposed thesis research. Research ethics will also be discussed in detail. Practical discussions will include basic bibliographical research and the structure and organization of research papers and theses. At the conclusion of the course each student will present a formal thesis proposal to the ACST thesis committee and class members, and will engage in critical discussion of the proposals made by other students.

### 6400 Health, Illness and Disease in Atlantic Canada,

3 credit hours.

Prerequisite: A minimum of 30 credit hours and completion of ACST 2400, honors or graduate standing or permission of the instructor.

This seminar is an examination of health and medicine in contemporary Atlantic Canada through an interdisciplinary perspective. Emphasis is placed on the organization of health services, health policy, the role of voluntary groups and agencies, and the experiences of health and illness in a regional context.

### 6501 Public History

6 credit hours

This course introduces students to both the field of public history and to the application of history and historical methods in a variety of workplace settings. Public history, which involves the practices and presentation of history outside academia, is the domain of a wide variety of practitioners including historians, museologists, archivists, journalist, museum workers, genealogist, film makers and researchers. This course will examine the evolution of public history as a field of study since the 1960s and will

focus on analysis of the presentation of history in a variety of films, presentations, and historic sites. The course content will be primarily Canadian and American, examining questions about ethics, standards and audience. The course will have both a classroom and an applied history or workplace component. Seminar three hours per week, plus successful completion of eight hours weekly of mentored volunteer work in a public history setting.

### 6621 Literary Cultures of Atlantic Canada

3 credit hours

This course offers an in-depth study of Atlantic Canadian Literary Cultures. Topics to address may include: aboriginal writing and oral tradition, the rise of the colonial press, early canon formation, the role of the confederation poets, writings by women, the Acadian renaissance, the function and persistence of nostalgia, Africadian literature, and representations of contemporary culture. Students are encouraged to read Atlantic Canada as a cultural geography with a diverse literary inheritance, a place where many different ways of writing the region intersect and influence each other.

### 6622 Material Cultures of Atlantic Canada

3 credit hours

This course will use the study of physical objects as the means to explore the nature of the various colonial and indigenous cultures found in Atlantic Canada. Students will be introduced to various theoretical approaches to the study of material culture before turning to the study of specific objects drawn from a wide body of items that can range from domestic tools and furnishings to industrial machinery and public architecture.

### 6623 Cultural Studies: Theory and Method

3 credit hours

This course focuses on the analyses of cultural commodities arising from a history of writing about culture, the means by which this writing about culture is produced, and the audience to which it is directed. The course covers both foundational texts in the history of cultural theories and specific topics of the study of culture (popular culture, media, urban studies, film, gender, sexuality and race studies), to illustrate methods by which culture is interpreted.

### 6631 Environmental History of Atlantic Canada

3 credit hours

This seminar course examines the changing ways nature has been viewed and transformed in Atlantic Canada before and after European settlement, surveying environmental history up to the mid-20th century. Topics include the role of natural history in the struggle for empire; historic aboriginal resource use; ecological patterns of colonial land use and settlement; changing frontier ecology; historical issues in agriculture, fishing, forestry, mining, and urban development; the early conservation movement; local natural history and emerging science; early natural resources policy; and cultural perceptions of nature and the landscape.

### 6632 Atlantic Canada Ecology and Resources — Contemporary Perspectives

3 credit hours

Ecology provides the background for considering the many social, economic, political, and philosophical dimensions of

environmental and resource use in Atlantic Canada today. Interdisciplinary in perspective, this environmental studies seminar focuses on contemporary practices, policies, and technological concerns in agriculture, forestry, the fishery, the energy sectors, and urban development. Also covered are the role of environmentalism, concepts of sustainability, environmental governance, and ecological literacy. This interdisciplinary exploration of ecology and culture emphasizes environmental perspectives from the humanities and social sciences and is open to students from all academic backgrounds.

**6633 Reading the Landscapes of Atlantic Canada — Ecological Connection to Place**

3 credit hours

Reading landscapes is an interdisciplinary investigation of the relationship between natural history, ecology, and human activity in regional landscapes. This course examines the ecology and environment of Atlantic Canada through seminar discussion, with an emphasis on field study trips to various sites, both urban and rural. Since direct immersion in landscape can nurture a better understanding of the diversity of life and one's own culture and environment, this course will accentuate interactive engagement with flora and fauna, as well as contact with individuals and communities concerned with ecological literacy and environmental issues. Interpretive hikes and projects will explore landscapes that include forests, marshlands, beaches, rivers, fields, and urban streets.

**6641 Atlantic Canada's Economic Development in Context.**

3 credit hours

This course examines the economic development of Atlantic Canada in its local, national, and international contexts. Emphasis will be placed on issues of particular importance to the region as identified in historical debates and in contemporary scholarship. While specific topics will be selected by the instructor, the course content will explore aspects of the historical pattern of economic development, federal-provincial economic relations, trading relationships and labour market restructuring.

**6642 Politics and Community in Atlantic Canada**

3 credit hours

This course will explore multiple dimensions of politics and community in Atlantic Canada. It will include an examination of conventional political actors and processes, as well various forms of political mobilization in civil society. Thus, a wide range of political, economic, social and cultural issues, institutions, ideas and identities, relating specifically to Atlantic Canada, will be reviewed and assessed.

**6643 Indigenous Peoples of Atlantic Canada: Contemporary Issues**

3 credit hours

This seminar course focuses on issues facing Atlantic Canadian First Nations and Inuit communities. Organized thematically, each session will examine a different facet of Indigenous life in Atlantic Canada and conducting research and writing about the First Nations and Inuit. The course will provide an introduction to the challenges facing Indigenous Peoples in an age of increasing globalization,

changes in the environment, a complex economy, and as they reassume self-government.

**6661 Reappraisals of Atlantic Canada's Past**

3 credit hours

This course will focus on key areas in Atlantic Canada's past that have been re-evaluated by the scholarship of the Acadiensis era, from 1971 to the present. Examples of topics to be explored are: the significance of aboriginal-imperial treaties; the expulsion of the Acadians; women and political history; industrialization and deindustrialization; borderlands; environmental change."

**6662 The Atlantic Region, 1720-1870**

3 credit hours

This seminar focuses on the Atlantic Region from 1720 to 1870. It will examine the interactions among the colonies in the region, as well as their relationship to other colonies in the New World and to imperial powers. The seminar will also consider the history of ethno-cultural communities within the region, including aboriginal peoples and European settlers. Topics to be covered will be chosen by the instructor. Seminars concentrate on group discussion and the presentation of substantive research papers that use primary sources.

**6663 The Atlantic Region Since 1870**

3 credit hours

This seminar focuses on the social and cultural history of the Atlantic Region from 1870 to the present. Topics to be covered will include approaches to social and cultural history as they apply to the study of region, regional identity, gender, ethnicity, cultural production, and a range of other topics. Seminars concentrate on group discussion and the presentation of substantive research papers that use primary sources.

**6671 – 6675 Special Topic in Atlantic Canada Studies**

3 credit hours

Each seminar will explore in depth a specific topic in Atlantic Canada Studies, usually closely related to the current research field of the instructor.

**6685 Directed Reading**

3 credit hours

Reading courses will be organized by the instructor(s) involved. In general, each course will centre on a specific theme, and the students will be expected, through their reading, to be familiar with all aspects of the chosen area. Examinations and/or papers will be required at the end of each course.

**6690 Thesis Research**

9 credit hours

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.

## Master of Arts in Criminology

---

**The Graduate Programs in Criminology are offered through the Department of Sociology and Criminology. Departmental members include:**

Graduate Coordinator	S. Schneider
Chairperson	R. Westhaver
Professors	M. Byers, D. Crocker, E. Tastsoglou, M. VanderPlaat
Associate Professors	R. Hart, V. Johnson, A. MacNevin, S. Schneider, A. Schulte-Bockholt, D. Stefanovic, R. Westhaver
Assistant Professor	J. Livingston
Coordinator of Criminology: Graduate Studies	S. Schneider

### Master of Arts in Criminology

The Master of Arts in Criminology will offer students an opportunity for advanced critical work in areas such as the social construction of crime, criminality, policing and punishment; socio-legal studies; social justice; and governance and regulation. The Program will provide students with the analytical and research skills necessary for further graduate study, research, or teaching; policy research and practice; or employment in government/non-government agencies and the private sector. The Department of Sociology and Criminology at Saint Mary's University has established an excellent scholarly and professional reputation in the field of critical criminology involving the analysis of how unequal power relations shape the social and historical construction of regulation, crime/criminality and justice by the state, private groups and academic scholarship.

#### Admission Requirements

The MA in Criminology follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition, the following conditions must be satisfied:

- Students who have earned an honours baccalaureate undergraduate degree in criminology (or equivalent), or an honours baccalaureate undergraduate degree with a concentration in criminology (or equivalent) may be admitted to a twenty-four (24) credit hour Master of Arts degree program. Only in exceptional circumstances will a student with an undergraduate degree with an advanced major be admitted.
- Normally, applicants will have achieved a minimum cumulative grade point average of 3.3 (B+) in their overall academic record. In exceptional circumstances, when an applicant is otherwise qualified, the admissions committee may waive this requirement.
- In addition to official transcripts, applicants must submit: a statement that specifies areas of preparation and interest for their thesis; a sample of written work and three recommendation forms from individuals who can attest to their academic competence and/or ability to pursue graduate work.

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

Students may be admitted to a qualifying year in those situations where they meet all the requirements for admission but are lacking sufficient background in criminology to study at the Master's level. In these instances, a program of study will be worked out with the Graduate Program Coordinator and students will be admitted to the Master's program upon successful completion at an appropriate grade level of this qualifying year program. A student in the thirty (30) credit hour qualifying year must make formal application to the Master of Arts degree program by February 1 of their qualifying year and must have attained a minimum cumulative grade point average of 3.30 (B+) to be considered for admission to the Master of Arts degree program.

#### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarship funding such as the Canadian Graduate Scholarships Program,

#### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

- Earn at least twenty-four (24) credit hours.
- Receive credit for the following:
  - CRIM 6600 Advanced Seminar
  - CRIM 6601 Advanced Theory;
  - CRIM 6602 Advanced Research Methodology;
  - CRIM 6404 Critical Criminology;
  - three (3) credit hours at the 6000 level from among the following Selected or Advanced Topics courses: CRIM 6604; CRIM 6605, CRIM 6609; CRIM 6610; and CRIM 6611; OR a 6000-level (graduate level) course from another department (with the permission of the Graduate Program Coordinator and the course instructor).
  - CRIM 6615 Thesis Research.
- In exceptional circumstances, with the permission of the Graduate Coordinator and the support of an individual faculty member, a student may be granted permission to undertake a Directed Reading course

from among CRIM 6606, 6607, 6608 in place of a Selected or Advanced Topics course.

- Attain a minimum grade of B+ in each course and an overall degree grade point average of 3.30 to graduate.
- Meet the following thesis (CRIM 6615.0) requirements:
  - to produce a thesis which shows both originality and the analytical/critical skills of research and interpretation;
  - to form a Supervisory Committee which will consist of a Thesis Supervisor and one faculty member.
  - to have a thesis proposal submitted to and approved by the Supervisory Committee and Criminology Graduate Studies Coordinator prior to commencement of the research;
  - to defend the thesis before an Examining Committee consisting of the Supervisory Committee, the Criminology Graduate Studies Coordinator, and one outside reader chosen by the Thesis Committee in consultation with the Criminology Graduate Studies Coordinator and the student. In instances where the Criminology Graduate Studies Coordinator is a member of the Thesis Committee, the Criminology Graduate Studies Coordinator will appoint a representative on the Examining Committee; and
  - to defend the thesis publicly.

## Graduate Courses (CRIM)

### 6404 Critical Criminology

3 credit hours

Critical criminology challenges the dominant paradigms of crime-control, adopting instead a social justice approach to crime. In this seminar students will explore central themes of critical criminology including power; the social construction of crime; governance and regulation; the politicization of crime control; and, the significance of gender, race and class

### 6600 Advanced Seminar

6 credit hours

The goal of this seminar is to prepare students for thesis writing through workshops on writing and other issues relevant to research. The focus will be on the writing of a thesis proposal. The course will also include presentations from faculty and other researchers. Student will participate in group discussions, and complete written and oral critiques of current research.

### 6601 Advanced Theory

3 credit hours

This seminar course is concerned with examining current themes and debates in criminological and sociological theory. Attention will be given to the influence of critical social theory, postmodernist, and poststructuralist writings for theorizing crime and criminality and other forms of regulation. Students may also be exposed to debates and critical discussions concerning criminology as a body of knowledge, and the future of criminology as a discipline.

### 6602 Advanced Research Methodology

3 credit hours

This seminar course is designed to cover advanced topics, issues and techniques in a range of research methods. Students will be encouraged to apply a reflexive critique and to explore the link between methodology and theory.

### 6604 Advanced Topics in Criminology

3 credit hours

These courses are designed to provide seminars pertaining to particular interests of faculty and students in criminology.

### 6605 Advanced Topics in Criminology

6 credit hours

These courses are designed to provide seminars pertaining to particular interests of faculty and students in criminology.

### 6606-6607 Directed Readings in Criminology

3 credit hours

These courses provide intensive readings under the supervision of a criminology faculty member, in areas of interest related to the student's program of study. These courses are not available to students in the MA unless they present exceptional circumstances and receive approval from a faculty member and the Graduate Coordinator

### 6608 Directed Readings in Criminology

6 credit hours

These courses provide intensive readings under the supervision of a criminology faculty member, in areas of interest related to the student's program of study. These courses are not available to students in the MA unless they present exceptional circumstances and receive approval from a faculty member and the Graduate Coordinator

### 6609-6610 Selected Topics in Criminology

3 credit hours

These courses are designed to provide seminars on topics related to research and scholarship being undertaken by members of the Graduate Program. .

### 6611 Selected Topics in Criminology

6 credit hours

These courses are designed to provide seminars on topics related to research and scholarship being undertaken by members of the Graduate Program. .

### 6615 Thesis Research

6 credit hours

Research conducted under the supervision of an advisory committee.

## Master of Arts in Geography

Graduate Coordinator: M. Novak  
 Chairperson: D. van Proosdij  
 Professors: C. Conrad, H. Millward, D. van Proosdij  
 Associate Professors: P. Giles, C. Suteanu,  
 Assistant Professors: J. Grek Martin, M. Novak  
 Adjunct Professors: T. Bouman, P. Bush, H. Chappels, R. Gibson, J. Spinney, M. Fox  
 Professors Emeriti: D. Day, R. McCalla

### Master of Arts in Geography

The Master of Arts program in Geography is open to students from both major streams of the discipline (human and physical), and serves the region's growing demand for advanced study in the discipline. The program is designed

- To provide an opportunity for Geography degree graduates to undertake Masters level study and research in Geography at a Maritime Provinces university.
- To provide an opportunity for students to undertake Masters level study and research focused on the geography of the Maritime Provinces.
- To fully utilize and enhance the research capabilities of faculty members within the Saint Mary's University Department of Geography and Environmental Studies.
- To fully utilize the research facilities currently existing within the Saint Mary's University Department of Geography and Environmental Studies and its cognate disciplines.

The degree combines both coursework and thesis, but the primary focus will be on the production of an original research thesis. Thesis work is weighted at 12 credit-hours, with additional required courses and elective courses at 6 credit-hours each.

#### Admission Requirements

In addition to the general requirements of the Faculty of Graduate Studies and Research (see Section 2 of this Calendar), the normal qualification for entry will be an honors B.A. or B.Sc. degree in Geography, or an honors degree in a cognate discipline with substantial course content relevant to geography, or a degree which the department deems to be equivalent (to include, at minimum, a cumulative grade point average of at least B). At the discretion of the department, a student may be admitted to the program subject to the satisfactory completion of prescribed qualifying work.

#### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

#### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

The Graduate Program Coordinator will work with all Master's students from the earliest stages of their participation in the graduate program to determine the area of a thesis topic and to select a thesis supervisor. The thesis supervisor will be the Graduate Faculty Advisor for the duration of a given student's participation in the program.

For the Master of Arts in Geography, all students must complete an acceptable thesis. It is not possible to satisfy the requirement for a thesis by means of extra course work. Detailed requirements for the degree are:

- Earn at least twenty-four (24) credit hours made up from
  - GEOG 6000 History and Philosophy of Geographic Thought (3 credit hours)
  - GEOG 6001 Research Design and Implementation (3 credit hours)
  - GEOG 6002 Thesis Research I (6 credit-hours)
  - GEOG 6003 Thesis Research II (6 credit hours)
  - At least 6 credit-hours in other 6000/5000 level Geography courses (which may include GEOG 6004 Graduate Practicum, 3 credit-hours).

A typical sequence of study would be:

	Courses	Credit Hours	Total Hours
Year 1	GEOG 6000	3	18
	GEOG 6001	3	
	GEOG 6002	6	
	6 credit hour GEOG graduate electives, one of which may be GEOG 6004	6	
Year 2	GEOG 6003	6	6
TOTAL			24

- Note: 5000 level Geography courses at Saint Mary's University may be offered concurrently with a similarly-titled undergraduate course. Students taking such a course for graduate credit are expected to do more work and to a higher standard. The extra work and standard required will be contained in a memorandum from the instructor and approved by the Graduate Program Coordinator.
- In the case where a Saint Mary's University graduate has already taken the undergraduate version of a course,

that student will not be allowed to take the 5000 level version of the course.

- Students are limited to only one 3-credit 5000 level course.

Students are required to meet the following thesis requirements:

- Produce a thesis which shows both originality and the analytical/critical skills of research and interpretation;
- Form a Supervisory Committee which will consist of a Thesis Supervisor and one faculty member.
- Prepare a thesis proposal to be submitted to and approved by the Supervisory Committee and the Graduate Program Coordinator prior to commencement of the research;
- Present the thesis publicly, and
- Satisfactorily defend the thesis before an Examining Committee consisting of the Supervisory Committee, The Graduate program Coordinator, and one outside reader chosen by the Thesis Committee in consultation with the Coordinator and the Student.. In instances where the Graduate Program Coordinator is a member of the Thesis Committee, the Coordinator will appoint a representative on the Examining Committee.

For the minimum and maximum time-for-completion of the MA in Geography, see the table associated with FGSR Academic Regulation 19 in Section 2 of this Academic Calendar.

## Graduate Courses (GEOG)

### 5612 Urban History and Preservation

3 credit hours

Students examine the evolution of cities from antiquity through the middle-twentieth century, including their morphological and functional characteristics. A focus is placed on the value of historical landscapes in today's urban fabric, and techniques for their protection and revitalization.

### 5613 Coastal Geomorphology

3 credit hours

Students examine both the physical processes that operate in the coastal zone, at a range of spatial and temporal scales, and the resulting landforms. The actions of waves, tides, currents, wind, sea level changes and humans in the formation of coastal features are considered. Additional topics include the long-term development and classification of coasts.

### 5623 Glaciers and Glaciation

3 credit hours

Glaciers have profound effects on landscapes and are an important component of global physical systems. Glaciology, causes and records of fluctuations in glacial coverage, glacial processes, glacial landforms, and the legacy of past glacial activity on earth will be examined. Broader impacts of glacial activity and changes on humans and the environment will also be investigated.

### 5631 Community and Regional Development

3 credit hours

Students are introduced to community and regional development theories, techniques, and approaches. Geographical perspectives of space, place, and scale will

guide the discussions of community and regional development in the Canadian context.

### 5632 Social Geography of the City

3 credit hours

Examines the location of residential areas in cities, and the differentiation and segregation of those areas by income, occupation, race, ethnic status, and religion. Emphasis is placed on the historical evolution of social patterns, on the link between social areas and the physical fabric of the city, on competition between groups for amenity locations and facilities, and on the conflicts over noxious facilities.

### 5642 Urban Planning

3 credit hours

Examines the physical and environmental planning of urban areas, with special reference to current practice in Nova Scotia. Topics include the emergence of modern town planning, the Planning Act, planning process, structure plans, general and partial urban allocation models, municipal plans, zoning, subdivision control, site planning, urban renewal, and new towns. The costs and benefits of planning are appraised.

### 5643 Natural Hazards

3 credit hours

This course considers natural hazards as a part of human-environment relations characterized by changing geographical patterns. Earthquakes, volcanic eruptions, landslides, severe weather, floods, coastal hazards, extraterrestrial body impacts are analyzed in a multi-scale perspective, along with their functional relationships. The human impact of natural hazards is discussed, with an emphasis on environmental perception, public awareness and action. Possibilities of forecasting are examined, as well as risk assessment and mitigation strategies.

### GEOG 5649 Tourist Geographies

3 credit hours

Students investigate why and how people travel, in the past and today, before examining several prominent tourist landscapes to understand the particular geographies that both shape and are shaped by the tourist imagination. Students will also address ethical questions associated with tourism.

### 5659 The Power of Maps: A Social History of Cartography

3 credit hours

Maps reveal a great deal about the worlds of their makers, communicating the technical proficiencies, economic structures, social relations, political objectives and prevailing belief systems of the societies that call them forth. Students critically examine the map-society relationship in selected historical contexts, as well as in our contemporary society.

### 5686 Concepts in Geographical Information Systems (GIS) Analysis

3 credit hours

Students focus on applied geospatial analyses using ArcGIS and associated extensions.. Topics include spatial analysis and geostatistics, 3D surface modelling, visualization, network analysis, predictive modelling and multiple criteria

## 46 M.A. in Geography

---

evaluations. Examples will be drawn from earth and environment science, geography, environmental studies, anthropology and business.

### **5696 Applications in Geographical Information Systems**

3 credit hours

This course is project oriented. Students focus on the use of either geographic information systems (GIS) or remote sensing to address practical problems in areas such as resource management, marketing, regional planning, natural hazards and geomorphology. Students undertake a major research project using various GIS analytical functions, and develop skills relating to data creation, manipulation, quality assessment and presentation.

### **6000 History and Philosophy of Geographic Thought**

3 credit hours

In this seminar, the foundations and development of the discipline of Geography are explored. The focus is on the major approaches to geographic enquiry, and their inter-relationships, strengths, and weaknesses. Particular attention is paid to recent developments and debates regarding philosophy, theory, and methodology.

### **6001 Research Design and Implementation**

3 credit hours

In this seminar students consider general issues and procedures in geographic research, related to both philosophical and methodological issues. They subsequently define and justify their thesis question(s), and plan their thesis research project. Thesis proposals will be presented, critiqued, and refined.

### **6002 Thesis Research I**

6 credit hours

Students register for this course in the first year of their program. Thesis research is conducted under the guidance of a Supervisor in conjunction with a Supervisory Committee. Successful completion of this course includes a satisfactory evaluation by the Supervisory Committee of the student's Annual Progress Report, presented in written and oral forms. This report will normally be submitted by the end of September (start of Year 2).

### **6003 Thesis Research II**

6 credit hours

Prerequisite: GEOG 6002

Thesis II constitutes the second segment of the student's thesis research project. Research is conducted under the guidance of the Research Supervisor in conjunction with the Supervisory Committee. The completed thesis is presented publicly, and examined by the Examining Committee and an External Reader.

### **6004 Graduate Practicum**

3 credit hours

Students are required to design, manage, and complete a clearly-defined and practically-oriented research project for an external 'client'. The project is supervised by a faculty member, and the final project report must be submitted to both the client and the Department, and be approved by both. Work submitted for the Practicum may not be credited as part of the student's graduate thesis.

### **6602 Directed Studies in Urban/Regional Geography**

6 credit hours

A directed studies course on topics involving urban and regional geography.

### **6603 Directed Studies in Environmental Geography**

6 credit hours

A directed studies course on topics involving environmental geography.

### **6604 Directed Studies in Marine Geography**

6 credit hours

A directed studies course on topics involving marine geography

### **6605 Directed Studies (General)**

6 credit hours

A directed studies course on general topics in geography.

### **6612 Directed Studies in Urban/Regional Geography**

3 credit hours

A directed studies course on topics involving urban and regional geography.

### **6613 Directed Studies in Environmental Geography**

3 credit hours

A directed studies course on topics involving environmental geography.

### **6615 Directed Studies (General)**

3 credit hours

A directed studies course on general topics in geography.

### **6624 Directed Studies in Marine Geography**

3 credit hours

A directed studies course on topics involving marine geography.

### **6660 Environmental Pattern Analysis and Modeling [ENVS 6660]**

3 credit hours

This course focuses on theory and practical methods for characterizing and modeling the structural and dynamic features relating to environmental systems. These systems are typically complex and often strongly variable in space and in time. A range of advanced approaches to analyze real-world systems, patterns and pattern change, as well as data mining concepts and methods are examined. Practical applications concern models and environmental systems related to rivers, lakes, coastal areas, fisheries, forests, ecosystems, underground mineral distribution, atmospheric variables (wind, temperature), and pollution.

### **6690 - 6699 Directed Study in Geography**

3 credit hours

These courses are intended to supplement the course offerings in geography and allow students to delve deeper into a subject of particular interest to them. Students must show initiative and be willing to work independently.

# Master of Arts in History

Program Coordinator	N. Neatby
Professors	J. Reid, R. M. Vance
Associate Professors	R. Barbosa, B. Brown, K. Freeman, N. Neatby, B. Sewell, L. Warner
Assistant Professor	X. Sun
Adjunct Professors	L. Codignola-Bo, M. McGowan, I. Saney
Professors Emeriti	O. Carrigan, C. Howell, J. MacCormack, J. Morrison, G.F.W. Young

The Department of History has strengths in Atlantic Canada and Quebec, East Asia, the Americas, Britain and Europe from the 16<sup>th</sup> century to the present. Research areas include: imperialism, nationalism and colonialism, law and society, emigration and immigration, health, leisure and tourism, social, political and intellectual movements. public and oral history. The one-year M.A. program in History at Saint Mary's combines course work and thesis research and caters to both full and part time students.

## Admission Requirements

The MA in History follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition:

- a. To be eligible for admission to the M.A. in History, applicants are normally required to possess a Bachelor of Arts degree with Honours in History, or its equivalent, from a recognized university or college. Candidates with other types of qualifications should contact the Graduate Coordinator of the Department of History before submitting an application.
- b. Applicants to the M.A. in History are asked to submit with their application forms a thesis research proposal, a writing sample, a curriculum vitae, and a list of any scholarly awards, publications or conference papers.
- c. As part of the application process each student accepted into the program is assigned to a Supervisor who is the main point of contact for researching and writing the thesis. Applicants are encouraged to contact the Graduate Coordinator before formally applying to the Program to confirm their eligibility and the availability of potential supervisors.
- d. The deadlines for receipt of applications for those requesting fellowships or financial assistance is **February 1**. The final deadline for applications is **15 May**.

## Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarship funding such as the Canadian Graduate Scholarships Program.

## Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

Program requirements specific to the M.A. in History include:

- a. Candidates must complete twelve (12) History credit hours at the 6000 level in addition to HIST 6650 and 6690.0. The program of each student must be approved by the Department.
- b. All Master of Arts candidates in History, whether studying on a full or part-time basis, must register for HIST 6650 and 6690 in their first semester.
- c. To graduate, students will be required to demonstrate a reading knowledge of at least one language other than English. (The Department will accept the equivalent of a satisfactory grade in Saint Mary's 1000-level undergraduate language course). French is normally required of students intending to write a thesis on any aspect of Canadian history.
- d. The subject of the thesis must be decided in consultation with the thesis advisor.
- e. Upon completion of the thesis, the student undertakes an oral defence open to all members of the university community. Two months prior to this defence, the Department of History will select a thesis examination committee. Student requests for particular examiners will be considered, but cannot be guaranteed.

## Graduate Courses (HIST)

### 6201 History of Media and Communications in Europe 3 credit hours

In this course on the long history of communications and the media, students will cover topics such as the making of medieval manuscripts, the printing revolution, censorship, the rise of the newspaper, the creation of public libraries, the inventions of photography, the telegraph, telephone and television, and the shift to digital formats and social media.

### 6501 Public History 6 credit hours

This course introduces students to both the field of public history and to the application of history and historical methods in a variety of workplace settings. Public history, which involves the practices and presentation of history outside academia, is the domain of a wide variety of

practitioners including historians, museologists, archivists, journalist, museum workers, genealogist, film makers and researchers. This course will examine the evolution of public history as a field of study since the 1960s and will focus on analysis of the presentation of history in a variety of films, presentations, and historic sites. The course content will be primarily Canadian and American, examining questions about ethics, standards and audience. The course will have both a classroom and an applied history or workplace component. Seminar three hours per week, plus successful completion of eight hours weekly of mentored volunteer work in a public history setting.

### **6527 Biography and History**

3 credit hours

This course will examine the relationship between biography and history, beginning with consideration of how far the essentials of historical methodology can be followed in biographical study. A variety of forms of biography will then be examined, including private and public approaches to biography, autobiography, and popular biography. Specific biographical subjects will be explored in detail as case studies. The central question considered throughout will be whether biography, in any of its forms, can be considered either as a form of historical enquiry or as a valid historical source.

### **6530 Forced and Free Migration in Latin America**

3 credit hours

This course will examine the reasons and consequences of migration to Latin America since the early colonial period. It will emphasize the forced migration of Africans and the free migration of Europeans and Japanese to countries such as Argentina, Brazil, Chile, Cuba and Peru.

### **6561 Irish Migration**

3 credit hours

During the nineteenth century Ireland had the highest emigration rate in Europe. In order to better understand this phenomenon, this seminar course will focus on the literature that discusses the nature of Irish migration and settlement from the eighteenth to early twentieth centuries. While the course will examine Irish immigrants in their various destinations, it will focus in particular on Irish settlement in North America.

### **6562 Scottish Migration**

3 credit hours

From the late eighteenth to the middle of the twentieth century, Scotland had one of the highest emigration rates in Europe. This seminar course will examine a wide range of literature that discusses Scottish migration to various overseas destinations in order to place the Scottish presence in Nova Scotia in historical context.

### **6573 The Rise and Fall of the Japanese Empire**

3 credit hours

Although a product of the same era in global history as other nineteenth- and twentieth-century empires, the Japanese Empire was more subject to distinctly Asian influences. This particular historical experience is explored through an examination of social, intellectual, and cultural concerns alongside the more usual issues involving economics and international relations.

### **6608 Seminar in Intellectual and Cultural History**

3 credit hours

This interdisciplinary seminar will adopt a thematic approach in order to explore ideas in history across borders, cultures and centuries. Topics for exploration may include the media, the law, the family, gender and/or sexuality.

### **6611 Seminar in East Asian History**

6 credit hours

Prerequisite: six (6) credit hours in East Asian History.

This seminar course will examine selected topics in the history of East Asia. The topics to be studied will be chosen by the instructor. As part of the course requirements, students will write a major research paper and present it to the seminar.

### **6615 Seminar in Historiography**

6 credit hours

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.

### **6619 Seminar in Modern European History**

6 credit hours

A seminar on selected topics in the history of modern Europe, 1800 to present, intended for history majors in their graduating year, honors, and graduate students. Topics to be examined will be selected by the instructor; students will be required to research and write a major paper on the topic selected, and present it to the seminar for discussion and criticism.

### **6635 Northeastern North America, 1480-1720**

6 credit hours

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.

### **6650 Seminar in Advanced Historiography**

6 credit hours

This compulsory seminar will examine selected contemporary historiographical issues and guide candidates in the preparation of their thesis proposals.

### **6661 Reappraisals of Atlantic Canada's Past**

3 credit hours

The Department of History has strengths in Atlantic Canada and Quebec, East Asia, the Americas, Britain and Europe from the 16<sup>th</sup> century to the present. Research areas include: imperialism, nationalism and colonialism; law and society; emigration and immigration; health, leisure and tourism; social, political and intellectual movements; Public and oral history. The one year M.A. program in History at Saint Mary's combines course work and thesis research and caters to both full and part time students.

**6662 The Atlantic Region, 1720-1870**

3 credit hours

This seminar focuses on the Atlantic Region from 1720 to 1870. It will examine the interactions among the colonies in the region, as well as their relationship to other colonies in the New World and to imperial powers. The seminar will also consider the history of ethno-cultural communities within the region, including aboriginal peoples and European settlers. Topics to be covered will be chosen by the instructor. Seminars concentrate on group discussion and the presentation of substantive research papers that use primary sources.

**6663 The Atlantic Region Since 1870**

3 credit hours

This seminar focuses on the social and cultural history of the Atlantic Region from 1870 to the present. Topics to be covered will include approaches to social and cultural history as they apply to the study of region, regional identity, gender, ethnicity, cultural production, and a range of other topics. Seminars concentrate on group discussion and the presentation of substantive research papers that use primary sources.

**6667 British Colonization**

3 credit hours

Migrants from the British Isles established settlements in places as far afield as Jamaica, South Africa, New South Wales and Vancouver Island. This course will examine some of the recent literature that touches on such diverse topics as: the encounter with indigenous peoples, the pioneering experience and the formation of colonial settlement identity.

**6670 - 6674 Selected Topics Seminar**

3 credit hours

As with other selected topics courses, the subject matter of these seminars will be announced from time to time. Topics to be examined will be determined by the course instructor. Seminars concentrate on group discussion and the presentation of research papers.

**6675 Selected Topics Seminar**

6 credit hours

As with other selected topics courses, the subject matter of these seminars will be announced from time to time. Topics to be examined will be determined by the course instructor. Seminars concentrate on group discussion and the presentation of research papers.

**6689 Reading Course in History - Selected Topics in Irish History**

3 credit hours

Prerequisite: permission of instructor.

An independent reading course in selected topics in Irish history, primarily social, political, and intellectual history in the 18th and 19th centuries. Topics include: Irish popular and radical movements and ideas in a transatlantic context; Ireland in the Age of the Democratic Revolutions; the Irish in America and Canada; Irish political institutions and political culture. Readings, consultations, and final paper.

**6690 Thesis Research**

6 credit hours

Students will engage in the research and writing of a thesis under the supervision of a thesis supervisory 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 supervisory committee.

**6695 - 6699 Reading Courses in History**

3 credit hours

Prerequisite: permission of instructor.

Each reading course will be organized by the instructor(s) involved. In general, each course will be centered round a specific theme, and the students will be expected, through their reading, to be familiar with all aspects of the chosen area. Examinations and/or papers will be required at the end of each course.

## Graduate Programs in International Development Studies

---

Graduate Program Coordinator	K. Ervine
Undergraduate Program Coordinator	R. Higgins
Associate Professors	S. Dansereau, K. Ervine, G. Fridell, A O'Malley
Cross-Appointments	S. Wein
Emeritus Professor	H. Veltmeyer
Adjunct Professors	W. Bello, M. Bateman, D. Black, P. Bowles, J. Cameron, G. Foladori, M. Gultekin, J. Kirk, R. Munck, J. Petras, L. Read, L. Swatuk, T. Teivainen, J. Tellez, D. Tetreault, J. Tharamangalam, S. Theunissen, R. Delgado Wise

In addition to the above faculty complement, Saint Mary's University faculty from many University departments and programs contribute to the IDS Program through research collaboration, thesis supervision, and participation in the IDS Program Committee charged with providing oversight for the general direction of the Program. The IDS Program belongs to a number of international graduate research consortia which amplify considerably the scope of potential supervision for graduate student thesis research projects, and has a nationally recognized Speakers Series in which graduate students are provided with the opportunity to hear and converse with leading researchers in the field..

IDS (registration code IDST) offers interdisciplinary graduate programs leading to both the Master of Arts and PhD degrees. Both degree programs make considerable use of the techniques and concepts of social science disciplines such as Economics, Anthropology, Sociology and Political Science (among others) to critically analyze the conceptual frameworks underlying development policies in order to situate them in their social, cultural, economic, historical and political context, and to promote potentially lasting solutions and practical policies to remedy the global South's most persistent development problems (e.g., widespread poverty).

Complete details of the Program and currently offered courses or seminars, together with ancillary information regarding student life and networking, may be found in the comprehensive *International Development Studies Handbook*, available from the Program secretary or on the IDS website ([www.arts.smu.ca/ids](http://www.arts.smu.ca/ids)).

### Master of Arts in International Development Studies

The IDS Masters of Arts degree is useful to those seeking employment in national and international settings, for which knowledge of global development issues, policies and practices is increasingly needed. Such employers would include many government offices (international cooperation agencies, foreign affairs, industry, trade), multilateral development agencies, crown and parastatal corporations, immigration services, non-governmental

organizations and professions such as teaching, journalism, development planning, public administration and business.

#### Admission Requirements

Honours baccalaureate undergraduate degree (or equivalent) with a minor concentration in International Development Studies or a relevant social science; or a baccalaureate undergraduate degree in addition to relevant practical experience in the field of international development. Additional courses may be required at the discretion of the IDS Program should an incoming student show evidence of a specific gap in undergraduate preparation.

#### Language Requirements

Students whose first language is not English, and who have not attended an English language secondary school, or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests. Normal minimum requirements are TOEFL, internet-based (iBT) score of minimum 90; or an IELTS score of minimum 6.5, with no individual score below 6.0.

#### Application Process:

The MA in IDS follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. Additional specific requirements for application to the IDS MA Program are the following.

The application for the MA degree should include, in addition to the standard documents required by the University (such as official transcripts), a statement that outlines the applicant's area of interest in international development studies and any experience or studies which have prepared the applicant to pursue graduate studies in this area, a sample of the applicant's written work, three recommendation forms from individuals who can attest to the applicant's academic preparedness for graduate studies in international development, and a complete curriculum vitae.

The deadline for submission of applications is January 15th for entry on the forthcoming September 1st. There are no deferred admissions to the MA Program, and there are no mid-year (January) entries into the MA Program.

The IDS Program reserves the right to require additional courses should an incoming student show evidence of a specific gap in undergraduate preparation.

The Admissions Committee of the IDS Program carefully reviews the files of all applicants, and recommends admission to the Program on a competitive basis. Successful applicants will be advised of the Admissions Committee's decision by the Faculty of Graduate Studies and Research. Please note that the assignment of, or prior

designation of, a Supervisor is not a requirement of admission to the MA in IDS.

Due to the sequential nature of many IDS graduate seminars, the IDS Program is unable to accept any students for January admission to the MA in IDS. Note that the Faculty of Graduate Studies and Research academic year begins on September 1 and ends on August 31, and consists of three, four-month semesters.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply to external scholarships.

### IDS MA Program Requirements

To obtain a Master of Arts degree in International Development Studies, all students must complete a thesis or a Major Research Paper (MRP) under the direction of a Supervisor and a reader, one of which must be a faculty member at SMU. In the case of the thesis, upon approval of the Supervisor, a student must publicly defend the results of his or her research before an examining committee made up of the supervisory committee and an external examiner, so that the benefits of the thesis research may be disseminated and discussed by the University community and interested members of the public at large. The MRP requires approval by the Supervisor and the reader.

The IDS Program encourages students to pursue thesis or MRP topics that cover a wide spectrum of student interests. Topics may range from applied, practitioner-oriented studies to broader, structural analyses of the dynamics of the global order, global sustainable development policies, popular responses to global policy regimes, or national/regional responses to socioeconomic restructuring or migration. Many graduate students elect to carry out fieldwork overseas using contacts derived from their own initiative or through IDS Program university linkages and network, so there is ample opportunity to acquire field experience in the context of the student's thesis research.

All graduate students in the IDS Program are required to participate in the Friday Noon Program Speakers Series, which provides a forum for students to discuss central development issues with invited guests from multilateral agencies, NGOs, academia, and the private sector.

Course Requirements: Twenty-seven (27) credit hours from the following required and elective courses:

Note: All IDS courses are three (3) credit hours, with the sole exception of IDST 6690 Master's Thesis Research, which is six (6) credit hours.

- 1) Required Courses (12 credit hours)
  - a) IDST 6601 Dynamics of Development: Frameworks of Analysis
  - b) IDST 6695 Research Design

- c) One regional course from among:
  - IDST 6661 South East Asia: Contemporary Development Issues
  - IDST 6662 Sub-Saharan Africa: Contemporary Development Issues
  - IDST 6663 Latin America: Contemporary Development Issues
  - or Special Topics courses on China or India Development Issues
- d) One specialization course from among:
  - IDST 5570 Environment and Development
  - IDST 6665 Labour and Development
  - IDST 6672 Trade and Development
  - IDST 6676 Education and Development I
  - IDST 6677 Education and Development II
  - IDST 6805 Conflict, Security and Development
  - IDST 6850 Gender Dimensions in Development
  - or other Special Topics course offered during a particular year

AND

- 2) Electives:
  - a) Thesis Option (nine (9) credit hours): Students choosing the thesis option are required to do nine (9) credit hours (3 courses) of electives in addition to the required courses.

OR

- b) Major Research Paper Option (twelve (12) credit hours): Students choosing the MRP option are required to do twelve (12) credit hours (4 courses) of electives in addition to the required courses.

AND

- 3) Thesis or MPR options  
Students must enroll in either:
  - a) IDST 6690 Masters' Thesis Research (6 credit hours)  
Credit granted the thesis student for the entire corpus of research activities surrounding the preparation, writing and defense of the thesis.

The Thesis consists of research and writing of a thesis that includes a rigorous analysis of the principle debates relevant to the research question, a thesis statement, and a methodology that guides the introduction of relevant data or information. This is done under the supervision of the thesis committee consisting of a supervisor with one reader (a second reader is optional). The student must satisfy the supervisor that the 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 to the satisfaction of the Examining Committee, consisting of the Thesis Committee augmented by an External Examiner, following which a final grade will be determined by the thesis committee.

OR

- b) IDST 6691 Major Research Paper (MRP) (three (3) credit hours):  
Credit granted the MRP student for the entire corpus of research activities surround the preparation, writing and submission of the MRP.

The Major Research Paper is a sustained exploration of a theory, policy or practice in international development studies. Under the supervision of a faculty member, and a reader, students must demonstrate a comprehensive knowledge and understanding of the relevant debates along with extensive research and independent analysis. Research can be undertaken through the use of primary and secondary documentary evidence alone or in conjunction with a field placement.

Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.

Specific graduate courses offered by other University departments may be chosen in consultation with the International Development Studies Program Coordinator. The IDS Program may allow a graduate student to take courses for credit at other universities if such courses are directly relevant to the student's thesis and are unavailable at SMU. The approval of the IDS Program Coordinator must be obtained for such courses, and in no case shall such courses exceed two in number.

## Doctor of Philosophy in International Development Studies

The PhD in IDS is an interdisciplinary doctoral program emphasizing research leading to an original contribution to the advancement of knowledge in IDS. The core area of Doctoral Research in IDS is the political economy of globalization. Students are encouraged to specialize in a specific sub-area such as development theory, labour, trade, environment, migration, education, or gender studies. The IDS PhD Program is currently admitting only full-time students.

### Admission Requirements

Applicants normally have a Master's degree with a first class standing. The applicant's transcript must demonstrate comprehensive graduate course work in International Development Studies or a very closely related area. The IDS Program may consider extensive professional experience as a substitute for a portion of the required graduate coursework. In addition to the general requirements set out by FGSR for all doctoral applicants, applicants must submit:

- a 2,500 word research plan setting out in detail their proposed dissertation project and area of research
- a Letter of Intent outlining their preparation for pursuing doctoral level research, and
- an up to date curriculum vitae.

English: Students whose first language is not English, and who have not attended an English language secondary school, or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests. Normal minimum requirements are TOEFL internet-based (iBT) score of minimum 100 with no individual band below 20; or an IELTS score of minimum 7.0, with no individual score below 6.5.

The deadline for applications is February 1st for entry on the forthcoming September 1st. There are no deferred admissions to the PhD Program, and there are no mid-year (January) entries into the PhD Program.

### Supervisor

In admitting students to the program, the Ph.D. Program Committee will take into account the availability of potential dissertation supervisors. On entry to the Ph.D. program, students will be assigned a supervisor who will be appointed on the basis of his or her expertise in relation to the student's dissertation at the time of entry. Where a successful applicant has already identified an appropriate supervisor, every effort will be made to ensure that he or she is appointed as the student's supervisor.

**Note:** The Ph.D. Supervisor should normally be a tenured faculty member at Saint Mary's University or other post-secondary institution in Atlantic Canada. In the latter case, such faculty must be recommended by the Faculty of Graduate Studies and Research as Adjunct Professors at Saint Mary's University.

These are the normal minimum requirements, but each case will be evaluated on its own merits. However, applicants will not be evaluated for admittance where any of the required elements have not been submitted at the time when the application is being considered.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

### Program Requirements

#### Year 1

IDST 7500 (2 semesters)	Advanced Development Theory
IDST 7600 (2 semesters)	Advanced Research Methods
IDST 8000	Doctoral Dissertation

In the Spring of Year 1, PhD students shall publically defend a Dissertation Proposal which will provide a detailed overview of the PhD student's research objectives, methods, argument, literature, and research protocol of the proposed dissertation. Permission to advance to Year 2 of the PhD Program is dependent on a successful outcome of this defense. The IDS PhD Committee will inform the PhD student of the result of the defense, approving movement to Year 2, suggesting a re-defense within one month in clear borderline cases, or, in the case of an inadequate defense, requesting that the student withdraw from the PhD Program.

#### **Year 2**

This year is entirely taken up with the student's original research and fieldwork which will form the basis of the dissertation.

#### **Year 3**

This year is devoted to writing the dissertation in consultation with the student's supervisory committee, and culminates with a public defense of the dissertation.

For minimum and maximum time-for-completion of graduate programs, see FGSR Academic Regulation 19 in Section 2 of this Academic Calendar.

## **Graduate Courses (IDST)**

### **5525 International Justice**

3 credit hours

This course will consider how major theories of justice such as Kantian constructivism, economic contractarianism, and utilitarianism deal with important issues in international justice such as the law of peoples, distributive justice, human rights, and democratization.

### **5530 Contemporary Development Planning**

3 credit hours

This seminar will discuss past and current approaches to development planning at the local, regional, national and global levels. Discussions will focus on acquiring an appreciation for the challenges facing contemporary development planners with regard to justifying, formulating and implementing development policies, programs and procedures at all levels.

### **5540 - 5542 Special Topics in International Development**

3 credit hours

These courses will explore in 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.

### **5550 - 5555 Directed Readings**

3 credit hours

These courses provide an opportunity for students to pursue individually with faculty and researchers topics not normally covered by regular course offerings. Students are expected to demonstrate initiative and independence in pursuing a directed reading, and will normally produce a substantial written document summarizing their literature research.

### **5560 Field Research in Development**

3 credit hours

This course will provide an opportunity for students to pursue a supervised research program in the field. The research and project report must be approved by the IDST Coordinator.

### **5570 Environment and Development**

3 credit hours

This seminar will explore the implications for world economic development of the rising tide of "environmental problems", as well as the question of what "economic development" might mean in the context of tackling the growing disruption of the global ecosystem. The importance of a sociological and political-economic analysis of the problems of environmental disruption will be emphasized as the basis for understanding the threat which environmental problems pose for the very existence of human kind and certain patterns of economic development.

### **5651 International Comparative Education I**

3 credit hours

Examination of concepts underlying a comparative understanding of selected educational systems around the world, including research methodologies used in the field. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and language learning, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

### **5652 International Comparative Education II**

3 credit hours

A continuation of IDST 5651. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

### **6601 Dynamics of Development: Frameworks of Analysis and Practice**

3 credit hours

This senior, core graduate seminar course will review and critically examine the major schools of development thinking with special reference to the social and political implications of economic policies and practice. The basic assumptions, central concepts, theoretical assumptions and public policy or political implications of each approach will be critically examined and placed in their historical context.

### **6620 Advanced Research Methods**

3 credit hours

This course in advanced qualitative and quantitative research methods is designed to provide students with the

## 54 International Development Studies

---

tools needed to select the appropriate methodological approach and techniques for conducting research on development issues. This course will also deal with more general questions of research design, data gathering and analysis.

### **6625 International Justice**

3 credit hours

This course will consider how major theories of justice such as Kantian constructivism, economic contractarianism, and utilitarianism deal with important issues in international justice such as the law of peoples, distributive justice, human rights, and democratization.

### **6640 - 6645 Special Topics in International Development**

3 credit hours

These courses will investigate in some depth a particular topic or set of topics in international development. Specific topics will depend on availability of visiting scholars, invited speakers and research plans of associated faculty.

### **6650 - 6655 Directed Readings**

3 credit hours

These courses provide an opportunity for students to pursue individually with faculty and researchers topics not normally covered by regular course offerings. Students are expected to demonstrate initiative and independence in pursuing a directed reading, and will normally produce a substantial written document summarizing their literature research.

### **6660 Field Research in Development**

3 credit hours

This course will provide an opportunity for students to pursue a supervised research program in the field. The research and project report must be approved by the IDST Coordinator.

### **6661 South East Asia: Contemporary Development Issues**

3 credit hours

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.

### **6662 Sub-Saharan Africa: Contemporary Development Issues**

3 credit hours

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.

### **6663 Latin America: Contemporary Development Issues**

3 credit hours

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.

### **6676 Education and Development I: Perspectives**

3 credit hours

Introduction to concepts and analysis underlying a comparative understanding of selected educational systems around the world. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

### **6677 Education and Development II: Policies and Practices**

3 credit hours

A continuation of EDUC 6676. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

### **6690 Masters Thesis Research**

6 credit hours

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.

### **6691 Major Research Paper**

3 credit hours

The Major Research Paper is a sustained exploration of a theory, policy or practice in international development studies. Under the supervision of a faculty member, and a reader, student must demonstrate a comprehensive knowledge and understanding of the relevant debates along

with extensive research and independent analysis. Research can be undertaken through the use of primary and secondary documentary evidence alone or in conjunction with a field placement.

**6695 Research Design**

3 credit hours

A seminar for the critical acquisition of traditional and cutting edge research design and methods, at the graduate level, used in international development studies. It will address the common challenges of developing a research protocol and the appropriate methodological approach and techniques for conducting research on development issues. These are discussed in an atmosphere of seminar presentations, constructive peer assessment and instructor-led discussions.

**7500 Advanced Development Theory**

6 credit hours

Students explore recent research at the highest level in development theory, and its implications for students' doctoral research. The first half of the course (Fall Term) is

organized around class-based seminars, while the second half (Winter Term) will follow a Directed Study format, normally with the candidate's supervisor.

**7600 Advanced Doctoral Research Methods**

6 credit hours

Students explore traditional and recent methods, both quantitative and qualitative, for collecting data relevant to participating students' doctoral research projects. The first half of the course (Fall Term) is organized around class-based seminars, while the second half (Winter Term) will follow a Directed Study format, normally with the candidate's supervisor.

**8000 Doctoral Dissertation**

3 credit hours

All doctoral students approved for entry into Year 2, fieldwork/empirical research, must register for this Dissertation course. The course will carry an IP (in progress) until the dissertation defense, at which time a pass/fail will be entered on the student's transcript.

## Master of Arts in Philosophy

---

Graduate Program Coordinator	S. Edgar
Chair	M. Mercer
Professors	S. Crooks, L. Gannett, M. Mercer, S. Wein
Associate Professors	T. Calder, S. Edgar, J. MacKinnon,
Assistant Professors	R. Ansell,
Adjunct Professor	H. Van Wilgenburg
Professors Emeriti	W. Grennan

The MA Program in Philosophy provides the opportunity to work closely with faculty members who (collectively) have expertise in a range of areas in the discipline including: ethics, social and political philosophy, epistemology, aesthetics, philosophy of education, some periods in the history of philosophy, and philosophy of science. The program is well-suited for students seeking additional training in philosophy for a variety of reasons including preparation for further study in Philosophy at the doctoral level, intellectual and professional development in preparation for other careers such as law, journalism, or politics, and a deeper understanding of philosophical topics for its own sake. Potential applicants are encouraged to consult the Graduate Coordinator at PhilGrad@smu.ca, to discuss possible thesis topics prior to applying to the program.

### Admission Requirements

The MA in Philosophy follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition:

- a. Applicants are normally expected to possess a BA Honours in Philosophy, or cognate disciplines. year program.
- b. The Departmental Graduate Studies Committee will review applicants' files and make recommendations to the Department on admissions. The Committee must be satisfied that there is a member of the Department able and willing to act as a thesis supervisor.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and additionally:

- a. The student will take a total of eighteen (18) credit hours at the 6000-level, and in addition will write a thesis (6697 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 Programme Coordinator, 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 Programme Coordinator 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.

## Graduate Courses (PHIL)

### 6000 Metaphysics

6 credit hours

Metaphysics seeks to answer the most general questions about reality. 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.

### 6415 Argumentation Theory

3 credit hours

Contemporary argumentation theory draws upon several disciplines: philosophy of language, cognitive psychology, feminist philosophy and communications theory. This course will examine the concept of argument through the lens provided by argumentation theorists. Alternative conceptions of argument will be critically examined and an

overview of the development of argumentation theory will be provided.

### **6510 Advanced Topics in Applied Ethics**

3 credit hours

This course will deal with advanced issues in applied or practical ethics. The course will focus on ethical issues in a particular domain (e.g., business, health care, the environment, international development) or on a particular ethical problem that might be faced in any of those domains (e.g., conflict of interest, racism, justice). Interested students should contact the Instructor to find out what this year's topic will be.

### **6585 Feminist Philosophy**

3 credit hours

This course examines the contributions of feminist philosophers to historical and contemporary thought in diverse areas of inquiry, such as ethics, political theory, metaphysics, epistemology, philosophy of science, and philosophy of mind.

### **6602 Philosophy of Language**

3 credit hours

How is it that words and sentences mean what they do? One answer to this question is that linguistic meaning is determined by the speaker's intentions; another is that it is determined by social practices. Each answer raises issues regarding the relation of language to both thought and reality that this course will aim to address.

### **6604 Theory of Knowledge: Foundations**

3 credit hours

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.

### **6605 Theory of Knowledge: Ethics of Belief**

3 credit hours

We commonly evaluate beliefs as rational or irrational; justified or unjustified; responsible or irresponsible. But what do these terms mean and when are they correctly applied? Can beliefs be ethical? These and related questions are debated by contemporary epistemologists. This course seeks to interpret and assess the main competing views.

### **6611 Political Thought: The Classic Texts**

3 credit hours

A critical examination of some of the core works in the history of political philosophy, such as those of Plato, Aristotle, Augustine, Hobbes, Locke, Mill, Rousseau, Hegel, Marx, and Nietzsche.

### **6612 Contemporary Political Philosophy**

3 credit hours

This course introduces students to the major schools of contemporary political thought, such as utilitarianism, liberal egalitarianism, libertarianism, Marxism, communitarianism, and feminism. Among the issues addressed are the justification for state power, the role of human nature in determining political arrangements, democracy and the

rights of minorities, the tension between liberty and equality, and the just distribution of resources.

### **6617 Philosophy of Economics**

3 credit hours

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 law). No knowledge of economics is presupposed or required.

### **6625 International Justice**

3 credit hours

This course will consider how major theories of justice such as Kantian constructivism, economic contractarianism, and utilitarianism deal with important issues in international justice such as the law of peoples, distributive justice, human rights, and democratization.

### **6627 Classic Readings in Philosophy of Mind**

3 credit hours

Students will study writings on the mind by important philosophers from antiquity to the twentieth century..

### **6628 Philosophy of Mind: Contemporary Issues**

3 credit hours

This course is a study of contemporary theories in the philosophy of mind. Topics include Behaviorism, Mind/Brain Identity theories, Functionalism, Cognitivism, and various theories of consciousness.

### **6634 Greek Philosophy: The Presocratics and Plato**

3 credit hours

A brief examination of Greek philosophy before the time of Socrates followed by careful readings of selected dialogues by Plato.

### **6635 Greek Philosophy: Aristotle and the Hellenists**

3 credit hours

A study of Aristotle's views (focusing on topics in metaphysics, psychology, knowledge and ethics), together with a brief examination of several Hellenistic philosophers.

### **6642 Early Modern Philosophy: The Rationalists**

3 credit hours

A critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Descartes, Malebranche, Spinoza and Leibniz are among the philosophers typically studied.

### **6643 Early Modern Philosophy: The Empiricists**

3 credit hours

A critical examination of the works from this movement, focusing on the areas of metaphysics and epistemology. Hobbes, Locke, Berkeley and Hume are among the philosophers typically studied.

### **6644 Later Modern Philosophy: Kant**

3 credit hours

A lecture and seminar course on Kant's theory of knowledge.

**6647 Philosophy and Film**

3 credit hours

Students consider philosophical questions concerning, or arising in film. Questions include: general issues of perspective, evidence, knowledge, and objectivity, as well as more specific questions, such as: What is the nature of representation in film? Can film be construed as a language? What is the logic of film criticism? These and other questions will be addressed in an effort to clarify the nature of the relation between philosophy and film.

**6648 Aesthetics: The Classical Tradition**

3 credit hours

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.

**6649 Aesthetics: Contemporary Debates**

3 credit hours

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.

**6650 Environmental Aesthetics**

3 credit hours

Students explore topics such as: the nature and value of natural beauty, the relationship between art appreciation and nature appreciation, the role of knowledge in the aesthetic appreciation of nature, and the importance of environmental participation to the appreciation of environments.

**6651 Pragmatism**

3 credit hours

Students read the founding texts of pragmatism from the late 19<sup>th</sup> and early 20<sup>th</sup> centuries (e.g., by Pierce, James, and Dewey). Analysis will focus on the pragmatist critique of traditional western philosophical ideas about meaning, truth, reality, foundations of knowledge, and practice. Students examine the historical reception and impact of pragmatism and assess its continuing importance today.

**6652 Philosophy of Science**

3 credit hours

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.

**6653 Philosophy of Biology**

3 credit hours

The course explores methodological, conceptual, metaphysical, and epistemological questions that arise in modern biology. Possible topics include scientific revolutions, experimentation, biological laws, theoretical modelling, objectivity, reductionism, species concepts, evolution vs. creationism, human nature, and biological theories of gender, race, and sexuality.

**6654 Philosophy of History**

3 credit hours

A critical study of the philosophical views on the course of human history (its pattern, purpose and value) and an examination of the aim, nature and validity of historical knowledge.

**6655 Existentialism: The 19th Century**

3 credit hours

A lecture and seminar course examining the 19th century origins of the existentialist movement in contemporary philosophy, with specific investigation of the writings of Kierkegaard and Nietzsche.

**6656 Existentialism: The 20th Century**

3 credit hours

A lecture and seminar course examining the 20th century expression of the existentialist movement in contemporary philosophy, through close study of the writings of Heidegger, Sartre, Camus, and others.

**6664 Analytic Philosophy**

3 credit hours

A lecture and seminar course that examines the origins, expressions, and significance of the contemporary analytic movement in philosophy.

**6669 Normative Ethics**

3 credit hours

Students investigate normative ethical theories including: evaluations, the morality of actions based on consequences, intrinsic features, and the sorts of people who characteristically perform such actions.

**6671 Meta-ethics**

3 credit hours

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'.

**6672 Foundation of Ethics**

3 credit hours

The course will involve the study of the nature of moral judgments and the logic of moral reasoning.

**6673 Moral Responsibility**

3 credit hours

Students consider questions such as: Are we ever morally responsible for what we do? When are we exempt from moral responsibility? When do we share responsibility for a harm that has been brought about by a collective? Should we hold organizations morally responsible for wrongfully causing harm? Or can the moral responsibility of organizations always be reduced to the moral responsibility of individual members?

**6674 Moral Psychology**

3 credit hours

Moral Psychology is an interdisciplinary study that draws on empirical research about human psychology and behavior and conceptual work in philosophical ethics. Some of the central questions include: what are the determinants of our moral judgements? What are the determinants of moral and

immoral behavior? What is the connection between moral judgement and moral and immoral behavior? What are the varieties of immorality? Does empirical research support or refute extant normative ethical theories?

**6683 Graduate Seminar**

3 credit hours

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.

**6685 - 6689 Reading Courses in Philosophy**

3 credit hours

The subject matter of these courses is determined by consultation between instructor and students.

**6690 - 6695 Reading Courses in Philosophy**

6 credit hours

The subject matter of these courses is determined by consultation between instructor and students.

**6697 Master's Thesis**

6 credit hours

This course accommodates the thesis research and writing required by the Department for any student proceeding to the Master of Arts degree in Philosophy.

## Master of Arts in Theology and Religious Studies

---

**This program is offered jointly by Atlantic School of Theology and Saint Mary's University**

### Program Coordinators:

Saint Mary's University M. Hale,  
Atlantic School of Theology D. Deane

### Religious Studies, Saint Mary's University:

Professor	A. Soucy
Associate Professors	M. Abdul-Masih,
Assistant Professors	M. Hale, S. Hussain, S. Krishnamurti
Adjunct Professors	E. Chung, R. Ramji

### Atlantic School of Theology

Associate Professors	J. Clarke, A. Faber, D. MacLachlan, S. Wilhauck
Assistant Professors	J. Campbell, D. Deane, R. Fennell, S. Slater

This program brings together two complementary, interdisciplinary programs, Theology (AST) and Religious Studies (SMU). Graduate students will experience a diverse and rich field of expertise in the study of religion.

Students have a unique opportunity to explore and articulate the relationship between Theology and Religious Studies as the fields have evolved both within Canada and internationally. The program is committed to enabling students to study diverse religious communities as they exist in the Maritimes, in Canada and around the world. Students may also choose to study the traditional religious studies and theological areas, such as comparative religions, comparative ethics, biblical studies, systematic theology and pastoral theology.

Students may pursue a thesis based M.A. designed to qualify for admission to doctoral programs or a course-only program designed for students wishing to develop theoretical and applied skills to work within churches and other religious institutions. One of the objectives of the program is to provide the religious communities in the Maritimes, whether long-established or new, with appropriate expertise that could enhance their understanding of their place in a multicultural society.

### Admission Requirements

Applicants may apply to either the Faculty of Graduate Studies and Research at Saint Mary's University or to Atlantic School of Theology. Students applying to Saint Mary's University meet the general admission requirements and follow the procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. For additional requirements and conditions, see below.

Applicants must have an Honours B.A. in Religious Studies or Theology, or a first degree in Theology (Masters in Divinity, for example), or their equivalent, from an AUCC

accredited university or a similarly recognized institution. Students may be admitted on a full-time or part-time basis (also see "Full-time versus Part-time Status" in Section 2 of the Graduate Academic Calendar).

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

**Thesis Stream:** Includes the completion of a traditional research-oriented thesis as required for admission to Ph.D. studies. Students may do theses using either field-based or library-based research. Students will complete six (6) credit hours of required courses (GTRS 6000), twelve (12) credit hours of elective courses, and a thesis (six [6] credit hours; GTRS 6020). Thesis proposal submission and thesis writing guidelines will be designed to enable students to complete their programs within three (3) semesters for full-time students (also see "Time-for-Completion of Graduate Programs" in Section 2 of the Graduate Academic Calendar).

Candidates for the Thesis Stream are required to demonstrate a reading proficiency in a modern language, normally French or German. Students may apply to the M.A. Program Committee to be examined in another modern language if it is more relevant to their specialty. Those entering the M.A. are expected to pass the modern language requirements by the end of their second semester. Exemption from these requirements is granted to those who have proof of a reading competence in the language. In fulfillment of a language requirement the acceptable standard of proficiency is the equivalent of a grade of "B" or higher in a SMU 2000 level undergraduate language course. This standard may be demonstrated by completing a university course or by an examination administered by the M.A. Program Committee. Students whose work concentrates on Biblical Studies must have completed, with a grade of "B" or higher, two full university courses of ancient Greek, Latin or Hebrew.

**Course Only Stream:** Students will complete six (6) credit hours of required courses (GTRS 6000) and eighteen (18) credit hours of elective courses. Students in this stream will be encouraged to include at least one practicum course (GTRS 6400, three (3) credit hours). The program is designed to be completed within three (3) semesters for

full-time students (also see “Time-for-Completion of Graduate Programs in Section 2 of the Graduate Academic Calendar).

## Graduate Courses (GTRS)

### Courses offered at Saint Mary’s University

#### **6000 Theory and Methods Seminar**

6 credit hours

Both Theology and Religious Studies are multidisciplinary fields of scholarly inquiry with different but overlapping histories, methodologies and theories. This course will require students to examine the theories and methods and engage in conversation about the relationship of the two disciplines. The distinctive ways in which the two disciplines have developed and continue to engage each other in Canada will be the focus of the second part of the course.

#### **6010 Religious Traditions in Canada**

3 credit hours

This course is a research seminar examining issues about historical and current issues involving religions in Canada and especially Atlantic Canada. Special emphasis will be given to comparative studies of Canadian themes in relation to North American and International patterns.

#### **6020 Thesis in Theology and Religious Studies**

6 credit hours

Students will engage in library and/or field research and the writing of a thesis under supervision of a thesis committee made up of a director and two readers. 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 thesis topics. Students will publicly defend their thesis, following which a final grade will be determined by the thesis committee, reconstituted as the defense jury for an oral defense. This normally includes the recommendation of the external reviewer of the thesis.

#### **6100 – 6130 Special Topics in Religious Studies**

3 credit hours

Special topics courses will investigate in depth a specific topic or set of topics in Religious Studies..

#### **6150 Religion and Globalization**

3 credit hours

Prerequisites: 24 credit hours

Technology has allowed for unprecedented movements of people and information resulting in profound changes in the way religious traditions are practiced. Students explore some of the key themes in the study of globalization of religions, like diaspora and transnationalism, in order to understand how globalization has affected the way traditions are practiced and understood.

#### **6200 – 6220 Directed Reading in Religious Studies**

3 credit hours

Directed Reading courses are designed to permit graduate students to do individual course research on topics in Religious Studies.

#### **6400 Practicum**

3 credit hours

In lieu of a thesis, student not intending to pursue higher graduate study may choose to do an applied research project (equivalent of 1 semester course) or Practicum. Each student is required to complete a project, under the supervision of a faculty member, involving real-world application of the theory and methods of religion and/or Theology. The project will be undertaken in conjunction usually with a religion affiliated agency working either locally, nationally or internationally. The student, in consultation with her/his supervisor and the relevant agency, designs and carries out a suitable research activity. The student prepares a suitable proposal beforehand, including a letter of agreement by the host agency, engages in the research and writes a final report on the results.

#### **6410 Religion and International Development**

3 credit hours

This course examines the role, both actual and potential of religion in development. The two main objectives are: (1) to examine theoretically what religion has to offer to contemporary debates about the nature of development; and (2) to explore the ways in which religions have contributed and are actually contributing to development on the ground in developing countries.

#### **6420 Religious Pluralism**

3 credit hours

In Canada and in countries around the world, interpreters of religious pluralism frequently situate their analysis of religion within social theories about secularism, pluralism, globalization, multiculturalism and human rights. This course will examine those theories and their impact on the social location of religions and religious diversity in multicultural societies.

#### **6440 Gender and Asian Religious Traditions**

3 credit hours

In this course we will examine the gender aspects of religious traditions in South, Southeast and East Asia. Women are often portrayed in such roles as daughters, mothers, wives, goddesses, demonesses, temptresses, Buddhas and bodhisattvas. This portrayal is upheld by cultural systems in which both men and women participate, and can best be understood by a critical analysis of the societies in which these religions are embedded. Attention will be given to the ways that gender informs religious institutions, individual identity and practice, and the historical development of Asian religious traditions.

#### **6450 Comparative Religious Ethics**

3 credit hours

This research seminar is focused on the issues of “doing ethics” in multicultural, multifaith contexts. Students will learn how to conduct critical inquiry into methodological

## 62 M.A. in Theology and Religious Studies

---

approaches and sources used when religious voices are included in attempts to create a common good.

### **6460 Religions and Orientalism**

3 credit hours

The course will explore Orientalist representations of religious traditions as an objective “other”. Special focus will be given to the ways in which Humane scholars, religious writers and the interpreters of sacred texts contribute to the formation of various forms of Orientalism.

### **6470 Religion and Society in Atlantic Canada**

3 credit hours

An historical examination of the relationship between religion and society in Atlantic Canada from the beginning of European settlement to the present. Themes to be considered include religion and the formation of regional/ethnic identities, religion and politics, religion and movements of social reform, and the impact of secularization on Atlantic Canadian society. Topics will be examined in the broader context of Canadian history and the evolution of the trans-Atlantic world.

## **Courses offered at the Atlantic School of Theology**

### **6200 – 6275 Special Topics in Theology**

3 credit hours

### **6300 – 6385 Special Topics in Pastoral Theology**

3 credit hours

**6610 Biblical Foundations – Hebrew Bible.** [BF 1001 at AST]

**6615 Biblical Foundations New Testament: Matthew and Method.** [BF 1002 at AST]

**6625 Sexual Ethics.** [ET 2012 at AST]

**6630 Keeping Body and Soul Together: the Bible on Food.** [NT 3152 at AST]

**6635 Gospel of Mark: The forgotten gospel.** [NT 3125 at AST]

**6640 Paul’s Social Network: Brothers and Sisters in Faith.** [NT 3129 at AST]

**6645 Christianity after Christendom.** [ST 3129 at AST]

**6650 The Holy Spirit.** [ST 3129 at AST]

**6655 The Wisdom Literature.** [HB 3108 at AST]

**6660 The Gospel of Luke: The community of Luke’s Gospel.** [NT 3108 at AST].

**6665 Theological Hermeneutics.** [ST 3128 at AST]

**6670 The Doctrine of God.** [ST 3146 at AST]

**6675 Christology** [ST/CH 3129 at AST].

---

# Master of Arts in Women and Gender Studies

---

Program Coordinators  
 Saint Mary's University: Michele Byers, Sociology  
 and Criminology  
 Mount Saint Vincent University: Randi Warne, Religious  
 Studies

The Master of Arts in Women and Gender Studies program is offered cooperatively by Saint Mary's University and Mount Saint Vincent University. This program emphasizes the interdisciplinary basis of Women and Gender Studies, its community linkage, and its grounding in feminist theories and methodologies.

The Master of Arts in Women and Gender Studies will appeal to individuals with interests in areas that combine a feminist perspective with global issues; gender in relation to war and peace studies, cultural and media studies; literary studies; history; theory; research methods; health; sexuality; education; social change; religion/spirituality; human rights, law, regulation and social justice; race and ethnicity; body image, paid and unpaid care-giving labour; family relations; creative arts; and feminist community activism.

This program is enriched by its access to a variety of library collections at universities in the city, by the presence of the Nancy's Chair in Women's Studies at Mount Saint Vincent University, and by its links with active local feminist communities.

## Admission Requirements

Applicants may apply to either the Faculty of Graduate Studies and Research at Saint Mary's University, or Mount Saint Vincent University. Students receive a Master of Arts Degree in Women and Gender Studies from the institution in which they are formally enrolled. Students are encouraged to apply to both institutions to maximize their chances of acceptance and funding.

Students applying to Saint Mary's University must meet the general admission requirements and follow the procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. To be admitted into the program, applicants will normally be expected to have a four-year Bachelor of Arts degree, with a minimum B average or equivalent. Students who do not meet eligibility criteria may be admitted with the requirement to complete a qualifying year or additional courses.

Enrolment is limited and based on the availability of Women and Gender Studies faculty to supervise a student's proposed area of research.

Application should include all recommendation forms, transcripts, and other required information. Applications for scholarship consideration will be accepted up to January 31.

For applicants who are not seeking a scholarship, the deadline is April 1.

## Financial Support

Full-time students admitted to the program at Saint Mary's University may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

## Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

This is a thirty (30) credit hour program that includes both course work and thesis and can be pursued either full-time or part-time. The degree can be completed in two years. Graduate students have five years to complete all degree requirements.

All students are required to complete the following courses:

- 6601 Feminist Theory (3 credit hours)
- 6602 Feminist Methodologies (3 credit hours)
- 6603 Graduate Seminar (3 credit hours)
- 6604 Contemporary Issues of Feminism (3 credit hours)
- Independent Study/Electives (6 credit hours)
- 6698 and 6699 Thesis (12 credit hours)

In consultation with the Women and Gender Studies Program Coordinator, electives and independent study courses are chosen to support the student's special area of research interest.

**The core courses (6601, 6602, 6603 and 6604) rotate between Saint Mary's University and Mount Saint Vincent University. Students should carefully read the timetable to identify on which campus each course is taught.**

The program offers a wide range of cross-listed, interdisciplinary elective courses every year, which include courses in the areas of global issues; war and peace studies, cultural and media studies; literary studies; history; theory; research methods; health; sexuality; education; social change; religion/spirituality; human rights, law, regulation and social justice; race and ethnicity; body image, paid and unpaid care-giving labour; family relations; creative arts; and feminist community activism.

## 64 M.A. in Women and Gender Studies

---

Prospective students with particular areas of interest or questions about courses should contact the Graduate Coordinators.

### Graduate Courses (WGST)

#### 6601 Feminist Theory

3 credit hours

This course is an in-depth study of feminist theory emphasizing theoretical development over time and common assumptions and debates among feminist scholars.

#### 6602 Feminist Methodologies

3 credit hours

This course is an examination of feminist critiques and strategies around knowledge and research methodologies. Students explore historical and contemporary debates on important research issues.

#### 6603 Graduate Seminar

3 credit hours

This graduate seminar is a forum for discussing student research proposals and for integrating insights and material from other venues. In the seminar, students work from an interdisciplinary perspective to bring together issues related to feminist theory, methodology and praxis.

#### 6604 Contemporary Issues of Feminism

3 credit hours

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.

#### 6698 - 6699 Thesis

6 credit hours

Students are required to produce a thesis worth twelve (12) credit hours. Therefore students must register in both these courses simultaneously. The thesis will require a proposal, will demonstrate research and communication skills and must be defended to fulfill the requirements. The thesis must meet the specifications of the institution at which the student is enrolled.

#### 6800 – 6825 Directed Studies in Women and Gender Studies

6 credit hours

The subject matter of these courses is determined by consultation between instructor and students.

#### 6826 – 6849 Directed Studies in Women and Gender Studies

3 credit hours

The subject matter of these courses is determined by consultation between instructor and students.

#### 6850-6875 Special Topics in Women and Gender Studies

3 credit hours

The topics discussed in these courses will vary from year to year.

**Note:** Lists of core and elective courses in Women and Gender Studies offered at Mount Saint Vincent are available in the *Academic Calendars* of that institution, the Saint Mary's WMST Coordinator, or the institutional websites of MSVU and SMU.

---

## Graduate Programs – Sobey School of Business

---

The Sobey School of Business offers the following graduate programs: Graduate Diploma in Co-operative Management, Master of Applied Economics, Executive Master of Business Administration, Master of Business Administration, Master of Finance, Master of Management of Co-operatives and Credit Unions, Master of Technology,

Entrepreneurship and Innovation, and Doctor of Philosophy in Business Administration (Management).

---

## Master of Applied Economics (MAE)

---

Graduate Program Director Ather Akbari

This 12-month program provides students with a working knowledge of how to apply the tools of economic analysis to issues involving public policy and business decision-making. Students will develop skills relevant to becoming professional economists ready to take managerial and/or research positions in the public or private sector as well as in international organizations. They will show originality in the application of economic theory and will develop appropriate writing skills required for policy documents and business reports that have an economics focus. They will develop research skills and will also obtain appropriate training to pursue a Ph.D. degree with a focus in applied economics, which has become a growing field both in Canada and internationally.

### Admission Requirements

The Master of Applied Economics follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Programs Academic Calendar. In addition, all applicants must possess at least a four-year Bachelor of Arts, Bachelor of Science, or a Bachelor of Commerce degree (or equivalent) with a cumulative GPA equivalent to a grade of “B”. Applicants will normally be expected to have taken at least one undergraduate course in statistics at an intermediate level (and preferably econometrics), intermediate microeconomics and macroeconomics, and economic theory at an advanced (fourth-year) level. Students who lack this background may be given an option to acquire equivalent preparation prior to starting the program.

Students whose native language is not English must submit a TOEFL or IELTS score. A score of at least 90 on the internet-based (iBT) TOEFL with no band below 20 or an IELTS score of at least 6.5 with no band below 6 is required. TOEFL/IELTS scores must be less than two years old.

Students may be admitted to a qualifying year in those situations where they meet all the requirements for admission but are lacking sufficient background in theory and econometrics to study at the Master’s level. In these instances, a program of study will be worked out with the Graduate Program Director and students will be admitted to the Master’s program upon successful completion at an appropriate grade level of this qualifying year program.

To be considered for funding, completed applications must be received by February 1. Self-funded applicants must submit their application by April 1.

Applications to the Master of Applied Economics (MAE) program should be made as early as possible. Additional program information may be obtained by contacting:

The Program Director, MAE Program  
Saint Mary’s University, Department of Economics  
Halifax, NS B3H 3C3  
Tel (902) 420-5621  
Fax (902) 420-5129  
mae@smu.ca or  
[www.smu.ca/academic/sobey/mae/welcome.html](http://www.smu.ca/academic/sobey/mae/welcome.html)

An online application form is available at  
<http://www.smu.ca/future-students/cs-apply-online.html>.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary’s University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarship funding such as the Canadian Graduate Scholarships Program.

### Program Requirements

Students admitted to the program must successfully complete twenty-four (24) credit hours. This involves successfully completing the following course requirements:

- Twelve (12) credit hours must include the following core courses:

- MAEC 6600 Applied Microeconomic Analysis (3 credit hours)

- MAEC 6601 Applied Macroeconomic Analysis (3 credit hours)

- MAEC 6609 Applied Econometric Modelling and Forecasting (3 credit hours)

- MAEC 6698 Seminar in Applied Economics Research (3 credit hours)

MAEC 6600, MAEC 6601 and MAEC 6609 must be taken in the first (fall) term, while MAEC 6698 must be taken in the second (winter) term.

## 66 Master of Applied Economics

---

• In addition, students must complete (9) credit hours of electives taken from the following:

- MAEC 6607 Monetary Theory and Policy (3 credit hours)
- MAEC 6610 Economic Development and Policy (3 credit hours)
- MAEC 6613 International Macroeconomics and Finance (3 credit hours)
- MAEC 6614 International Trade and Commercial Policy (3 credit hours)
- MAEC 6616 Industrial Organization and Applied Game Theory (3 credit hours)
- MAEC 6618 Economics of the Public Sector (3 credit hours)
- MAEC 6640 Economics of Human Resources and Migration: Issues and Policies (3 credit hours)
- MAEC 6649 Social Policy: Economic Analysis and Issues (3 credit hours)
- MAEC 6659 Economics of Cooperatives and Social Enterprises Non-Profit Firms (3 credit hours)
- MAEC 6663 Economics of Natural Resources and the Environment (3 credit hours)

Not all elective courses will be offered every year.

Students may be able to take one elective (3 credit hours) from outside of Economics, subject to the approval of the Graduate Program Director and course instructor.

• Students must complete a major research paper, MAEC 6699 (3 credit hours), under the supervision of a faculty member. Work on the paper can begin at any time during the program, subject to the approval of the student's supervisor.

### Graduate Courses

#### 6600 Applied Microeconomic Analysis

3 credit hours

This course builds strong foundations for applied economics courses and for economic research. While dealing with core areas of microeconomics, emphasis will be on applications of microeconomic tools to inform policy-making in important issues of the day, such as regulation, the effects of network externalities in the information economy, and outsourcing.

#### 6601 Applied Macroeconomic Analysis

3 credit hours

This course provides students with a strong grounding in the tools of modern macroeconomic theory, and how those tools can be applied to gain an understanding of macroeconomic events and for the evaluation and design macroeconomic policy and institutions. Topical issues such as the effects of high debt and financial crises will also be discussed.

#### 6607 Monetary Theory and Policy

3 credit hours

This course provides an analytical framework for the study of monetary policy. Issues such as the role of financial markets and institutions, the monetary transmission mechanism, inflation targeting, and financial crises may also be discussed. Empirical studies will be incorporated to

enhance student understanding and to highlight the policy relevance of course material.

#### 6609 Applied Econometric Modelling and Forecasting

3 credit hours

This course will provide students with a solid working knowledge of the theory and practice of econometric modelling and forecasting. Topics include regression analysis, violation of classical assumptions, generalized least squares, model selection, dynamic models, time series econometrics, and applied forecasting methods. Applications using appropriate econometrics software will also be shown.

#### 6610 Economic Development and Policy

3 credit hours

This course evaluates the state of knowledge in major policy areas, and how that knowledge can be used for the design and implementation of effective policies. Areas for study could include growth and macroeconomic stability; trade and aid; education and poverty; environment and sustainable development; health and nutrition; the theory and practice of development planning.

#### 6613 International Macroeconomics and Finance

3 credit hours

The goal of the course is to integrate theories with the empirical literature and recent policy debates on important issues such as optimal exchange rate policy and international financial integration. Topics include current account dynamics, theories of exchange rate determination, open-economy macroeconomic policy, international capital flows, currency crises, and business cycle models.

#### 6614 International Trade and Commercial Policy

3 credit hours

This course shows how trade theory provides insights into controversies in the international economy, as well as for the evaluation and formulation of trade policy with special reference to the role of international institutions and negotiations. Topics covered include the determinants of trade patterns, the impacts of tariffs, strategic trade policy, and the economics of regional integration.

#### 6616 Industrial Organization and Applied Game Theory

3 credit hours

This course develops student skills in the application of game theory to industrial organization issues. Students will learn to set up and solve fundamental game theory models to answer questions relating to product pricing and sales, R & D decisions, the formation of joint ventures, and advertising, to name a few.

#### 6618 Economics of the Public Sector

3 credit hours

This course examines the role of government in market economies, with a focus on expenditure policy, financing of the public sector through taxation, and intergovernmental fiscal relations. Students will work through a comprehensive empirical and theoretical guide that analyzes taxation and expenditure policies at all levels of government, in both the Canadian and international contexts.

**6640 Economics of Human Resources and Migration: Issues and Policies**

3 credit hours

This course will review the theoretical and empirical literature on labour market issues and international migration. Topics could include household labour supply, labour demand, labour migration and its management, the role of international trade, worker compensation, discrimination, industrial relations and unemployment. Public policy applications of these topics will be emphasized.

**6649 Social Policy: Economic Analysis and Issues**

3 credit hours

Social policy includes income security policy, family policies, income redistribution and poverty alleviation, health care, education and housing. The course covers alternative models of the welfare state, conceptual issues related to policy design, and empirical evidence of policy impacts. Select policy areas will be examined in depth, and while the emphasis is on Canada, comparative perspectives are included.

**6659 Economics of Cooperatives and Social Enterprises**

3 credit hours

Drawing on behavioral economics, this course will debate advantages and disadvantages of alternative forms of enterprise and policy implications. Topics include cooperative principles and values; economic theory of cooperative firms and social enterprises; dual motives theory; the social and solidarity economy; cooperative and social networks; best practices and case studies.

**6663 Economics of Natural Resources and the Environment**

3 credit hours

Through this course, students will acquire a critical understanding of how economic decisions, market forces and government policies can affect the environment, and a sound knowledge of the theory and techniques of non-market valuation of environmental goods and services. Students will also be able to evaluate and design public policies towards the environment and natural resources.

**6698 Seminar in Applied Economics Research**

3 credit hours

This course builds student skills for conducting sound applied research, and for effectively communicating that research through presentations and written reports. Students will develop their understanding of the various elements of the research process through assigned reading and real-world empirical applications, proposal writing, policy analysis, and dealing with empirical challenges.

**6699 Major Research Paper**

3 credit hours

In this course, under the guidance of a supervisor, students will undertake a research project that will demonstrate their theoretical and quantitative modelling skills, and their ability to conduct valid empirical research. They will also present their work in the form of a written research paper.

**6892 Directed Study**

3 credit hours

This course supplements and provides an alternative to the regular economics courses in order to meet the special needs and interests of students. It also provides an opportunity to study a particular subject in greater depth and detail, and requires from the student some measure of independence and initiative.

---

# Executive Master of Business Administration (EMBA)

---

Program Director            W. Carroll  
Adjunct Professor         T. O'Neill  
Program Manager         K. Smith

The Executive MBA is a four-semester program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions and senior executives who want to increase significantly their personal and organizational effectiveness. The Executive MBA is structured as an integrative program that will enhance participants' ability to think across functional lines and understand better the "whole enterprise" in its global competitive situation.

Features of the program include:

- Classes will meet on alternating weeks on Fridays and Saturdays during the academic year.
- Managerial experiences and practical backgrounds of participants will be utilized.
- A broad management view of various business and organizational problems will be provided.
- A global perspective of business will be developed with an International Business Trip as a required part of the program.
- An understanding of economic, social, political, and environmental forces that affect the organization and influence managerial decisions will be developed.
- An exchange of information and insights will be encouraged among participants from diverse industries, organizations, functions and responsibilities.
- The sponsoring organization and its participating manager will be able to meet common educational goals without major disruptions of job assignments and home life.

## Admission Requirements

The EMBA follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar with the following additional requirements and procedures.

The EMBA Admissions Committee will consider an applicant's prior academic record, scores on the GMAT, military or work experience, extracurricular activities, recommendation forms, and the online application. While each of these general criteria is important, the applicant's entire profile will be evaluated, where significant strengths in one area may help compensate for weaknesses in another.

Test scores and academic records will be evaluated as evidence of academic grade; however, the Admissions Committee will also look for personal qualities, such as leadership and motivation, which are important for success as a manager.

An online application, including a statement of the objectives of the student, and interview will be the basis of the Admissions Committee's decision. Applications will not be evaluated until the application is complete, including test

scores. It will be the responsibility of the applicant to ensure that the application is complete.

In general, an applicant for admission to the Executive MBA program will have:

1. substantial experience at the senior management level;
2. sponsorship by an employer who agrees to support their employee's participation in the program;
3. a bachelor's degree with high standing or equivalent qualification (in certain cases, consideration will be given to students who do not hold a bachelor's degree);
4. taken and achieved a satisfactory score on the Graduate Management Admissions Test (GMAT), or its equivalent, such as the GRE (may be waived for engineers, accountants and those with a post-graduate degree);
5. three recommendation forms from work-related or academic sources.

Prior to starting the program, each student will participate in team-building, accounting and research skills workshops.

Online applications to the Executive MBA program should be made as early as possible. A list of supporting documents that must accompany an application is available at: <http://www.smu.ca/academics/graduate-application-forms-and-requirements.html>.

## Program Requirements

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

The EMBA program consists of 16 modules of 26 hours each, over a four-semester period, or four modules totaling 104 hours in each semester. Classes are held on alternating weeks on Fridays from 9:00 a.m. to 5:00 p.m. and Saturdays from 8:30 a.m. to 4:30 p.m. Nine subjects (see curriculum below) are covered in the first year. Unless noted in the course description, all EMBA courses are 3 credit hour courses, which meet over 4 day-long sessions.

All students are required to complete the following non-credit course;

EMBA 0010 Professional Skills

Year II of the program will follow the class schedule followed in Year I.

## Curriculum

### First Year: Required Courses

EMBA 0010 EMBA Professional Development Activities  
EMBA 5511 Managerial and Financial Accounting  
EMBA 5512 Organizational Behaviour  
EMBA 5513 Strategic Marketing  
EMBA 5515 Leadership

EMBA 5516 Selected Topics in Business Law Ethics and Governance  
 EMBA 5521 Corporate Finance  
 EMBA 5522 Managerial Economics  
 EMBA 5523 Operations Management  
 EMBA 5524 Human Resource Management

### Second Year: Required Courses

EMBA 0010 EMBA Professional Development Activities  
 EMBA 6631 Management Information Systems  
 EMBA 6632 International Capital Markets  
 EMBA 6633 Policy I - Business Strategy  
 EMBA 6634 Business Research Project I  
 EMBA 6641 International Business (See note a below)  
 EMBA 6642 Policy II - Public Policy in Business  
 EMBA 6646 Business Research Project II

### Elective Courses

EMBA 6643 Industrial Relations  
 EMBA 6647 Entrepreneurship and Family Business  
 EMBA 6690 Seminar in Business Studies  
 EMBA 6691 Directed Study

**Summary:** 15 required courses; 1 elective.

**Note: (a)** An International Business Trip of approximately 10 to 14 days is an integral and required part of this course and hence the EMBA Program

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

### 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.

## Courses (EMBA)

### 0010 EMBA Professional Skills

0 credit hours

This required non-credit course is intended to provide opportunities to understand management skills and achieve a greater understanding of the role of the chief executive in an organization. Primarily, this course involved required attendance at a speakers series. Students will take this course every semester in which they are enrolled in the program.

### 5511 Managerial and Financial Accounting

3 credit hours

This course is designed to improve students' decision-making abilities as managers using accounting information within organizations, and as managers interpreting and using externally published financial statements from other organizations. The use of accounting systems for planning of activities and control of operations with emphasis on the human behavioral aspects will be studied. The course will also develop and further the student's knowledge of accounting techniques and principles and their understanding of accounting data.

### 5512 Organizational Behavior and Theory

3 credit hours

This course is concerned with the behavior and attitudes of individuals and groups in organizations and with how organizations are structured to achieve their goals. The course relies heavily on the contributions of psychology, sociology and anthropology, and strong emphasis is placed in those management decisions that contribute to organizational effectiveness. Topics to be covered typically include leadership, motivation, job design reward systems, control systems, group-dynamics, communication and decision-making, designing jobs and reward systems, evaluating organizational effectiveness, conflict management, organizational culture, and change.

### 5513 Strategic Marketing

3 credit hours

In this course, students will develop the understanding and analytical skills needed to make strategic choices for achieving sustainable competitive advantage in the global market. Methods of instruction may include seminar discussions, case analysis, simulations, secondary research, and field research projects.

### 5514 Business Research Methods

This course covers the basic topics related to the collection, analysis and presentation of data for business decision-making. Topics include elementary notions of research and theory construction and statistical inferential, sample design, regression and correlation, model building, time series and index, and forecasting. The use of primary and secondary data sources will be addressed. The presentation of research results will emphasize the fundamentals of both written and oral communication techniques for effective presentation of business data/research results.

### **5515 Leadership**

1.5 credit hours

This course focuses on the theory and practice of leadership in organizations. Contemporary theories of leadership are reviewed in detail and considerable focus is placed on the development and enhancement of individual leadership skills through assessment, feedback and guided practice.

### **5516 Selected Topics in Business Law, Ethics and Governance**

1.5 credit hours

An introduction to selected topics in business law and ethics in the context of business governance. These areas are increasingly regarded as important for executives and they are not covered in any other course in the EMBA program

### **5521 Corporate Finance**

3 credit hours

The objective of the course is to provide an integrated view of the financing and investment decision of the firm by focusing on how the value of a company is affected by the trade-offs between the returns and risks inherent in all financial decisions. Topics include agency theory signaling and financial compensation schemes and their impact on financial decision making. Students should complete the course having an in-depth appreciation of the nature of the financial markets within which the firm operates together with a solid working knowledge of a wide variety of financial decision techniques.

### **5523 Operations Management**

3 credit hours

This course provides the student with a foundation in the concepts and techniques of operations management, especially the methods used for the planning, organizing and scheduling of operations in both manufacturing and other institutional settings. Students will be introduced to analytic decision making through such techniques as linear programming, decision analysis and simulation. Applications include inventory control, project management, production scheduling and resource allocation.

### **5524 Human Resource Management**

3 credit hours

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.

### **6622 Global Economy**

3 credit hours

Students examine national economic policies such as fiscal and monetary policy including economic growth and social welfare. The course highlights how microeconomic entities interface in matters like natural resource usage, economic

development and international trade. Students examine the phenomenon of globalization and the interdependence amongst the world's various economic agents.

### **6631 Management Information Systems**

3 credit hours

Information Systems play a critical role in the success of most enterprises. Managing the corporate information systems function has become very challenging, with rapidly changing issues and approaches, and greater requirement for information systems strategy to be aligned with business strategy. This course addresses the major management topics associated with managing the MIS function. Topics include user satisfaction and demand for information, managing service quality of MIS, the successful management of technology, the relationship between automation and productivity, data security, and justification of the MIS budget. Management issues in emerging topics such as office systems and microcomputers are also discussed.

### **6632 International Capital Markets**

3 credit hours

The objective of this course is to understand the global nature of financial markets and the role of international banking. The course commences with a recapitulation of the make-up of a developed market financial system. Particular attention will be focused on the foreign exchange market. The interrelationships within the domestic system and its interdependence with the "world" system are illustrated and the apparent robustness of the system to withstand shocks is assessed, as well as its ability to innovate in the financial claims it can offer and the financial centres that have developed.

### **6633 Policy I - Business Strategy**

3 credit hours

Course objectives: This course is designed to develop a general management perspective within the context of current strategic management concepts and techniques. The concept of strategy will be used as the theme to develop this course, and to assist in the integration of materials covered in other parts of the EMBA course activities. The primary teaching vehicle in this course will be the case method. Although some lectures will be given, concept development will take place through case discussions, readings and presentations. Background material will be provided by the instructor.

### **6634 Business Research Project I**

3 credit hours

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.

### **6641 International Business**

3 credit hours

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.

**6643 Industrial Relations (Elective)**

3 credit hours

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.

**6646 Business Research Project II**

3 credit hours

Business research requires the scientific development, planning, execution and reporting of a business research project. The research will be conducted and reported under the guidance of a faculty advisor. The project must be well grounded in the current literature, and the report should include a delineation of the problem, method, results, and conclusions. In this course, students will be required to present their research projects to the EMBA students and faculty.

**6647 Entrepreneurship and New Venture Development (elective)**

3 credit hours

Using lectures, group work, individual work, cases, and guest speakers, this course examines the key theories and elements related to the entrepreneurial cycle. The entrepreneurial cycle includes the idea generation and investigation phase, the start-up, the potential for rapid growth, and harvesting the value created by the firm at exit. The questions addressed specifically investigate: 1) whether it is viable to either start or purchase a business, 2) where and how to secure financing for either option, 3) how to marshal other resources critical for growth, and 4) how to position the firm to capture its wealth when the entrepreneur is ready to exit.

**6690 Seminar in Business Studies (Elective)**

3 credit hours

Prerequisite: completion of all required 5000-level EMBA courses.

The course deals with selected topics in business. The topics to be covered will vary depending on the interest of the students and instructors.

**6691 Directed Study**

3 credit hours

Prerequisite: completion of all required 5000-level EMBA courses and permission of EMBA Director, Departmental Chairperson, and instructor.

Intended to supplement or provide an alternative to the electives in order to meet the special needs and interests of students.

## Master of Business Administration (MBA)

---

Program Director	M. McKee
MBA Managing Director	L. Ray
Program Assistant	J. McIntyre
Career Services Manager	K. Nichols

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 Sobey MBA program will ensure that students develop an understanding of how the different functions of a business interrelate in the business situation. This is a priority in the student's educational experience that is achieved through the emphasis the program places on integration and business simulation activities as well as the focus placed on business strategy and policy. The program also provides students with the flexibility to design a program of study that is general in orientation or more focused and specialized.

### Admission Requirements

The MBA follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar with the following additional requirements and procedures.

Admission to the MBA program is competitive. Meeting minimum requirements does not guarantee admission to the program. The following are required for consideration for admission:

**Degree:** An undergraduate degree in any discipline with at least a "B" average. Official transcripts must be sent from each post-secondary institution attended by the applicant.

**GMAT:** A satisfactory GMAT score (average in the last two years has been 600, with 550 usually as the minimum). GMAT scores are used to evaluate both quantitative and verbal skills. A minimum competency in the quantitative, verbal and AWA writing areas is expected (50<sup>th</sup> percentile). GMAT score must be less than five years old.

**English Language Proficiency:** The MBA program is fast-paced with much reading, report writing and team work. Strong English language proficiency is important for success in the program. Students whose native language is not English must submit an official English language proficiency test score. A score of 100 on the internet-based TOEFL (iBT) with no band below 20 is required. A IELTS score of at least 7.0 is required, with no band below 6.5.

**Work Experience:** Work experience is not required for admission to the MBA program, but relevant experience from full-time, part-time and cooperative work placements would be considered assets. In your resumé, please detail the nature of the work experience, duration in each position, nature of responsibilities and contribution made to the employer.

**Motivation and Leadership Potential:** Through a combination of academic work, previous experience and extra-curricular activities, applicants must demonstrate a high level of motivation for success and leadership potential. Test scores and undergraduate marks are evaluated for academic ability. The admissions committee will also look for leadership and managerial potential. In addition to evaluating the application, essays, test scores, recommendation form and transcripts, the admissions committee may require a personal or telephone interview before a final decision is made.

While each of the five criteria listed above is important, the applicant's entire profile will be evaluated and suitability for our program will be judged. Sometimes strengths in one area can compensate for weaknesses in other areas. We encourage applicants to provide detailed resumé, thoughtfully written essays and any additional information that may assist the admissions committee in making a decision.

In order to be considered for admission to the program, the application file must have the following documents:

- a. Completed the online application form at <http://www.smu.ca/future-students/cs-apply-online.html> including a \$70.00 non-refundable application fee.
- b. An official transcript from each post-secondary institution where courses or programs were taken. These include completed or incomplete degrees or diplomas, upgrading courses and professional certificates. Transcripts must be sent directly by the institution issuing the transcript and not by the applicant.
- c. Essays and short answers, as required on the supplemental form.
- d. Current and detailed resume. Indicate job title, name of employer, duration of job, nature of responsibilities and contribution made to the employer, education, extra-curricular achievements, volunteer experience and skills. A chronological resumé is preferred.
- e. Official GMAT score report sent directly from GMAC (Note: school code for GMAT full-time students is 0M9-5R-11 and for part-time students it is 0M9-5R-06).
- f. Students whose native language is not English must submit an official English language proficiency score. (Note: 0958 is the appropriate TOEFL code for the Sobey MBA Program at Saint Mary's University).
- g. **Three** Referees should be current/former professors or current/former supervisors at work who can judge the applicant's suitability for graduate work and leadership potential. Friends and relatives should not be asked to fill in a recommendation form. Applicants can submit additional recommendation forms, if they wish. An academic reference is preferred but not required.

Applications that do not contain all of the above items will **NOT** be processed. Please note that all documents must be originals or notarized. Completed application forms and all supporting documents (items “a” to “h” in the above list) must be sent directly to the Faculty of Graduate Studies and Research.

Once applications are submitted, contact the Sobey MBA Program if you require further information or in order to find out the status of your application.

A non-refundable confirmation of acceptance deposit of \$500.00 Canadian is applicable to the MBA program. This deposit will be applied to tuition fees on registration.

Applications for admission to the MBA program should be made as early as possible, since admission is competitive. The application deadlines are as follows.

To Start Program in September:

- Canadian Applicants (full or part-time) – 1 June
- International Applicants – 1 April

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

Students may change to full-time status but are required to fulfill any additional requirements for the full-time program.

Special or visiting students, i.e., those wishing to study at Saint Mary’s on Letters of Permission from their home institution are advised that the 6000 level MBA courses are normally open only to Saint Mary’s University MBA students. Students in other graduate programs at Saint Mary’s or at another post-secondary institution can seek to gain permission from the MBA Managing Director if they wish to enroll in an MBA course. Some courses have restricted enrolment.

### **Financial Support**

In addition to Canada Student and other loans, financial aid is available through University scholarships and assistantships. The number of scholarships is limited and they are granted based on information provided in the student’s application. Students are automatically considered for entrance scholarships at time of admission. Applications for assistantships should be made to academic departments in the Sobey School of Business.

### **Program Requirements**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

The Sobey MBA provides an integrative foundation in management principles as well as the opportunity for specialized study in traditional functional areas of accounting, finance, human resource management, marketing, information systems, or in interdisciplinary

subjects such as international business, or entrepreneurship. These elements are sequenced as follows:

### **Preparatory Modules**

The purpose of the online preparatory modules is to position students for success by ensuring they are equipped with foundational knowledge in the areas of accounting, statistics, economics and finance. By completing the preparatory modules, incoming students will have a common base of knowledge and the ability to delve into advanced content earlier in the term. Students will be required to demonstrate competency in the designated knowledge areas.

### **First Year Courses (30 Credit Hours)**

ACCT 6548 Accounting for Decision-Making  
MKTG 6571 Marketing Management  
MGSC 6505 Business Statistics  
MGSC 6515 Strategic Operations Management  
CISY 6521 Information Systems & Success  
MGMT 6585 People in Organizations  
ECON 6502 Global Economy  
FINA 6561 Business Finance  
MGMT 6595 Responsible Leadership

All students are required to complete the following non-credit course:

SMBA 6010 Professional Development  
SMBA 6020 Immersive Learning

### **Second Year Courses (24 Credit Hours)**

The objectives of the second year are to foster further integration of functional studies, to develop research skills, and to provide the opportunity for specialized study in a functional or interdisciplinary field of management.

Required courses include:

SMBA 6500 International/Intercultural Immersion  
MGMT 6789 Strategic Management  
and

18 credit hours of electives that can incorporate SMBA 6698 Management Consulting Project (MCP) or 6699 Major Research Project (MRP).

Students will complete six (6) credit hours with the required courses (i.e., SMBA 6500 and MGMT 6789) and the remaining eighteen (18) credit hours will be elective courses. Students have the option of completing three (3) credit hours on a MBA Consulting Project (MCP). Students are able to take the six (6) credit hour Major Research Project (MRP) course in one of the following subject areas: ACCT, ECON, FINA, MGMT, MKTG, MGSC, or CISY.

In the event an MBA student is not registered in any course but is completing a major research project (MRP) in a given semester, the student shall register in the MRP Continuation category and pay the required continuation fees.

Saint Mary’s University students may use a Letter of Permission to enroll in graduate courses at other universities and receive credit for the courses in the MBA degree. This flexibility enhances the opportunity for students to develop a program that best serves their careers and draws on the course offerings of other universities. Credit for courses completed using this option will only be granted for courses for which a B or better grade is obtained. In completing the

MBA degree, for students enrolled in the regular program (see below) a minimum of thirty-six (36) credit hours must be completed at Saint Mary's. For further information please contact the Program Director.

## **Graduate Courses**

### **Accounting (ACCT)**

#### **6548 Accounting for Decision-Making**

3 credit hours

Students consider key financial and management accounting topics from a user and decision-maker perspective. Topics include: analysis and interpretation of financial statements prepared under various regimes of accounting standards; use of internal management accounting information in various contexts; and behavioral incentives and cognitive biases that may distort decisions made using accounting information.

**Note:** Students cannot receive credit for this course if they have credit for ACCT5548.

#### **6624 Small Business Accounting Information Systems**

3 credit hours

This course examines issues relating to the role, selection, design, and implementation of commercially-developed accounting information systems in small businesses. The course provides students with an opportunity to gain practical experience by utilizing a decision support system to assist in the software selection process for a local small business. Students will also learn to use at least one commercially-developed accounting software package.

#### **6626 Management Information Systems: Strategy and Practice**

3 credit hours

This course addresses the rising need of managers to recognize the strategic importance of information systems and to be able to create new work environments which allow their organizations to leverage knowledge globally, organize for complexity, work electronically, and handle continuous and discontinuous change. The concept of information as a corporate resource which must be effectively planned, developed, managed and controlled is emphasized.

#### **6641 Financial Reporting and Statement Analysis**

3 credit hours

This course examines financial statements from the perspective of both preparers and users of financial information. Commencing with analytical models of information production, the course focuses on various mechanisms of information extraction. Techniques such as ratio analysis, signal extraction, forecasting are used to establish functional relations between the accrual process and the economic position of a firm. Consequently, the course provides a framework for using accounting information to evaluate a firm.

#### **6650 Integrative Managerial Accounting I**

3 credit hours

Beginning with organizational goals and objectives, and involving strategy, policy, and implementation issues, this course examines the development of management planning

and control systems in the modern organization. The focus will be on techniques and processes that lead to improved management decision making. Some of the topics discussed may include activity-based management, target costing, value chains, life cycle costing, principal and agency relationships, and customer value analysis. Integrative problem solving and case-analysis will be emphasized both at a group and individual level.

#### **6652 Integrative Managerial Accounting II**

3 credit hours

Prerequisite: ACCT 6650.

This is a continuation of Integrative Managerial Accounting I. Particular emphasis is placed on the study of change management processes and techniques, and performance analysis and evaluation. Some of the topics discussed may include economic value added, balanced scorecard, total quality management, corporate reengineering, and strategic brand valuation. Integrative problem solving and case-analyses will be emphasized both at a group and individual level.

#### **6653 Taxation**

3 credit hours

Students will examine the effect of tax law on personal and managerial decision-making and be introduced to the concept and principles of commodity taxation..

#### **6654 Advanced Financial Accounting Theory**

3 credit hours

Accounting theory involves conceptual, historical, and empirical developments. Exploration of these issues in light of recent developments will be made in this course. Included are theoretical issues surrounding advanced accounting topics such as not-for-profit organizations, foreign currency, business combinations, non-going concerns, partnerships, and resource industries.

#### **6656 Integrative Financial Accounting**

3 credit hours

Theory and practice will be combined to investigate complex financial accounting issues and problems. Recent research and practice will be explored as part of this course.

#### **6657 International Accounting**

3 credit hours

An introduction to accounting in the international environment and especially within multinational enterprise, which will involve in-depth examination of international accounting issues. Topics will include: international accounting standards; foreign exchange, foreign currency transactions, and translation of financial statements; inter-corporate investments; accounting for changing prices; transfer pricing; international aspects of taxation; culture and accounting; as well as accounting in developing countries.

#### **6658 Computer Based Auditing**

3 credit hours

This course investigates internal controls and audit in computer and data communications environments. Topics include hardware and software control features, data security, control evaluation, computer assisted auditing, statistical sampling and working paper preparation and

selected current topics. Microcomputer and networked systems will be emphasized.

### **6660 Integrative Public Auditing**

3 credit hours

Specialized public auditing areas such as forensic audits, environmental audits, and computer systems investigations will be combined with the study of recent audit questions of concern to both practitioners and researchers.

### **6662 Integrative Internal Auditing**

3 credit hours

This course covers value-for-money auditing and operational and management audits, investigations of computer systems and emerging issues in internal auditing. Modern management practices and approaches will constitute necessary background.

### **6664 Advanced Taxation Legislation - Corporate and Sales**

3 credit hours

Tax legislation is not only complex but subject to continual change. This course will explore the recent changes in both corporate and sales tax legislation and engage in an in-depth study of selected areas of the legislation relevant to business decisions.

### **6666 Taxation and Financial Planning**

3 credit hours

The tax implications for various complex business decisions such as mergers, capital structuring, investments, and business valuations will be investigated. Recent income tax legislation will also be considered as part of the investigation conducted.

### **6668 Advanced Management Information Systems (MIS)**

3 credit hours

This course analyzes advanced topics in computerized information systems from an accounting perspective. Systems analysis and design, database design, systems documentation and the role of expert systems and artificial intelligence will be explored.

### **6680 Environmental Accounting**

3 credit hours

This course is designed to help students understand how to monitor, control, measure, and report the environmental impact of business and public sector organizations. The course will include an overview of sustainable development from an accounting perspective, external reporting of environmental costs and obligations, internal planning, budgeting and control of costs, and an introduction to environmental auditing. The course is oriented toward integration of the concepts of sustainable resource management into the integral planning and external reporting of the organization, and will include case studies and projects which endeavour to integrate the field of accounting with others related to the interaction of the environment with the economy. To the extent possible, applications and cases, as well as the skills of professionals not members of the Department of Accounting, will be used to strengthen this integration.

### **6690 Seminar in Accounting**

3 credit hours

The course deals with selected topics in the accounting area. Current development in accounting and other related areas will be studied.

### **6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular accounting courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

### **6699 Major Research Project (MRP) in Accounting**

6 credit hours

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.

## **Commercial Law (CMLW)**

### **6601 Commercial Law**

3 credit hours

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.

## **Computing and Information Systems (CISY)**

### **6521 Information Systems & Success**

3 credit hours

Students examine the role of information systems in successful, modern businesses from a managerial focus. Topics include business process and systems governance; business analytics; collaboration and wireless communication; and doing business in the electronic market space. Students will use computer tools for communication, decision support, and project management.

**Note:** Students cannot receive credit for this course if they have credit for CISY5521.

### **6624 Database Systems**

3 credit hours

Students will examine the design, implementation and management issues associated with database systems. The problems which arise through incorrectly designed databases are identified and their resolutions discussed. Topics on transaction processing and databases on the WWW are also covered. Labs based on an RDBMS package are given to provide a vehicle for practical implementation.

### **6625 Electronic Commerce**

3 credit hours

Students explore how an effective e-commerce strategy and execution can drive enterprise success. Topics include: e-business models, e-commerce technology infrastructures,

security and payment systems, e-marketing, social and political issues, retail and services, media, social networks, supply chain management, and collaboration..

**6626 Government and Platform-mediated Networks**

3 credit hours

This course takes a systematic approach to examining governance issues during each stage of the IT-enabled platform life cycle in such industries as energy, finance, and technology. Students examine how industry regulations and platform service(s)/objectives affect business model design and platform mobilization. Students learn how IT platform provider(s) and sponsor(s) are able to influence government regulations, policy-setting, and/or applicable standards, identify risks for platforms due to management inattention to important factors, and identify envelopment opportunities and appropriate defenses.

**6636 Decision Support Systems**

3 credit hours

Students explore decision support systems (DSS), computer applications specifically designed to support and enhance user decision-making. Topics include: DSS examples (expert systems, BI systems, data mining, and others), architecture, design issues, and implementation using Visual Basic programming in MS Excel.

**6690 Seminar in Computing and Information Systems**

3 credit hours

This course deals with selected topics in computing and information systems. It is offered when in sufficient demand, and specific topics covered may vary depending on the interest of the students and instructor.

**6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular computing and information systems courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6699 Major Research Project (MRP) in Computing and Information Systems**

6 credit hours

Each student is required to complete a project involving the practical application of the research concepts and techniques used in computing and information systems, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

## **Economics (ECON)**

**5500 Economics of the Enterprise**

3 credit hours

An examination of the economic behaviour of the consumer and the firm, including market demand and structure and the pricing and employment of factor inputs.

**5501 Economics of Enterprise Environment**

3 credit hours

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.

**6502 Global Economy**

3 credit hours

Students examine issues related to the global economy, including national economic policies and economic growth. Students analyze how microeconomic entities interface with natural resources, economic development and international trade. They examine the phenomenon of globalization and develop an understanding of the ever increasing interdependence amongst the world's various economic agents.

**Note:** Students cannot receive credit for this course if they have credit for ECON 6601.

**6600 Issues in Industrial Economics**

3 credit hours

This course deals with such topics as competition policy, technological change in industry, behaviour under uncertainty, and the economics of regulation. It draws on theories of industry structure, conduct and performance, and emphasizes applications in the Canadian context.

**6609 Business Forecasting**

3 credit hours

Business decision making relies heavily on information, and forecasting is an important tool in the provision and analysis of information. Recent advances in forecasting methodology and computer technology have opened new and challenging avenues for modeling and forecasting in the business area. This course aims to provide students with a working knowledge of forecasting models and methods (with particular emphasis on newer developments) that they may usefully be applied in a real-world setting.

**6611 Sustainable Resource Management**

3 credit hours

This course examines the structure and dynamics of natural resource industries and their biological, economic, social, administrative and technological components. The course will cover such topics as: the role of natural resources in society; objectives of integrated natural resource development; the nature of sustainable development and environment-economy interactions in the resource sector; options for management of resources and resource industries; economics of sustainable resource use; methods for analyzing resource use choices; case studies. This will be an interdisciplinary course, drawing on elements of economics, management and management science. It will give the student a grounding in natural resource management, with emphasis on the theoretical and practical application of 'sustainable development' to the resource sector.

**6620 Issues in Public Finance and Fiscal Policy**

3 credit hours

This course deals with selected aspects of public policy. Issues related to public goods, externalities, fiscal

federalism, tax incidence theory, direct taxation, indirect taxes, public debt and stabilization policy may be covered.

**6622 Managerial Economics and Public Policy Issues**

3 credit hours

This course deals with business and public policy issues. Topics may include the market mechanism, market structures, regulation of industry and competition policy, aggregate economic activity, business cycles, stabilization policy, public debt, and other issues of current interest.

**6663 Economics of Environment Management**

3 credit hours

This course focuses on the use of economic principles to understand the environmental impacts of business and household activity. The issues discussed include: causes of air and water pollution; endangered species; and the environmental impacts of human activity in fisheries, forestry and mining industries. Methods of environmental management, with special emphasis on the potential role of economic institutions and instruments, are discussed. Some discussion of current Canadian policy issues is also undertaken.

**6665 International Economics**

3 credit hours

An overview of the central themes in international trade and finance, with presentation of current policy issues and debates. Topics include: gains from trade; regional integration; multilateral trade liberalization; scale economies and trade; foreign exchange rate determination; exchange rate regimes; foreign exchange intervention and stabilization policy.

**6690 Seminar in Economics**

3 credit hours

This course deals with selected topics in economics. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructors.

Classes and independent study. 1 semester.

**6692 Directed Study**

3 credit hours

This course supplements and provides an alternative to the regular economics courses in order to meet the special needs and interests of students. It also provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6699 Major Research Project (MRP) in Economics**

6 credit hours

Each student is required to complete a project involving the practical application of the research concepts and techniques used in economics, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

**Finance (FINA)**

**6561 Business Finance**

3 credit hours

Students consider fundamental theories and apply those theories to the business world. Topics include financial

statement analysis, valuation of financial assets, investment and financing decisions, costs of capital, portfolio management, and long-term financial policies of firms such as capital structure and dividend policies.

**Note:** Students cannot receive credit for this course if they have credit for FINA5561.

**6571 IMPACT Program 1: Applied Financial Analysis**

3 credit hours

Prerequisite: Permission of instructor

This is the first of two courses that support the investment management of the Sobey School of Business's IMPACT Fund. Students who are admitted to this program will undertake a comprehensive economic analysis of the Canadian economy and use this to generate top-down portfolio allocation decision. In addition, students learn how to generate advanced financial research reports using state-of-the-art financial tools. Emphasis is on generating, interpreting and applying company comparable analysis reports.

**6572 IMPACT Program 2: Applied Portfolio Analysis**

3 credit hours

Prerequisite: Permission of instructor and FINA 6571

This is an advanced course in applied portfolio management. The course is the second of two courses that support the investment management of the Sobey School of Business's IMPACT Fund. Students who are admitted to this program are responsible for making portfolio allocation decisions for the fund. Students use company comparable analysis in conjunction with more advanced financial models, such as cash flow and real options models, in making bottom-up active portfolio management decisions. Advanced financial statement analysis is also covered.

**6662 Seminar in Real Estate Investment**

3 credit hours

**6663 Financial Management**

3 credit hours

Managerial in emphasis, this course examines financial planning and analysis, working capital management, capital budgeting techniques, and theories of cost of capital and valuation of the firm.

**6664 Corporate Finance**

3 credit hours

Prerequisite: FINA 6663.

This course is also managerial in emphasis and covers material related to financing both the short and long term assets of the firm: bank borrowings, bonds, preferred stock, common stock, as well as mergers and consolidation.

**6665 Mergers and Restructuring**

3 credit hours

The course examines financial and economic aspects of corporate mergers, acquisitions, joint ventures, restructuring and other corporate control transactions. Relations between corporate control transactions and performance are explored.

## 78 Master of Business Administration (MBA)

---

This course will expose students to key corporate finance literature.

### **6666 Capital Markets**

3 credit hours

The purpose of this course is to discuss the management of investments. Although a strong theoretical treatment is adopted, the course is developed in the context of Canadian financial markets and available empirical work will be reviewed. Recent advances in option and bond markets will be developed and computer applications stressed. In addition, the asset-liability management of financial institutions - banks, mutual funds, insurance companies and public funds - will be reviewed.

### **6667 Options, Futures and Swap Markets**

3 credit hours

Prerequisite: FINA 6668.

This course is intended to help students understand activities of the financial institutions in the market place and the types of financial innovations taking place in the market place. Topics covered include contemporary issues in the options and futures markets and applications: stock options, stock index options, foreign currency options, curb options, commodity futures, foreign exchange futures, interest rate futures, stock index futures and interest rate swaps. Applications to hedging strategies are also emphasized.

### **6668 Investments and Portfolio Management**

3 credit hours

This course presents an overview of the Canadian investment environment focusing on various securities that trade in the money, bonds, and equity markets. Both qualitative and quantitative treatments of risks and returns associated with investments in these markets are discussed. Applications to managed (active) and unmanaged (naive) portfolios, performance evaluation and interest rate risk management from the perspective of financial institutions. Topics covered include market transactions, portfolio theory and analysis, asset pricing models and market efficiency, security analysis, equity and fixed-income portfolio management and performance appraisal.

### **6670 Fixed Income Securities**

3 credit hours

Prerequisite: FINA 6668

This course provides a detailed analysis of the bond market and the instruments available therein. Although the emphasis is on North American securities, global portfolios are also examined. Bond valuation and bond portfolio strategies are covered in depth. Treasury securities, corporate bonds, municipal bonds, mortgage backed securities, CMO's and interest rate options are addressed.

### **6671 Financial Institutions**

3 credit hours

This course will deal with the structure and function of Canadian financial institutions such as: banks, brokers and investment banks, insurance companies and mutual funds. The role of each type of institution in the economy will be discussed as well as regulation of the industry. The main

emphasis of the course will be on the institutions as businesses; their profit and risk structure.

### **6676 International Business Finance and Banking**

3 credit hours

This course is organized around two themes - (i) the concept of the multinational firm and the financial management decisions it takes in a multi-currency world - and (ii) the challenges faced in the international banking system of asset/liability management, offshore financial centres, external debt and rescheduling and increased regulatory and supervisory measures.

### **6690 Seminar in Finance**

3 credit hours

This course deals with selected topics in finance. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor. In the past these have included real estate, investment and portfolio management, and international banking.

### **6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular finance courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative. Prior to undertaking registration for this course, students must have a detailed course proposal approved by the appropriate instructor. Proof of this approval must be submitted at the time of registration for the course. Students are encouraged to obtain this approval prior to leaving campus in the spring.

### **6699 Major Research Project (MRP) in Finance**

6 credit hours

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 (MGMT)**

### **5586 Leadership and Behavioral Process**

3 credit hours

This course is designed to address theory and practical applications relating to the processes of management and leadership in organizational settings. Topics covered will include leadership, individual difference (attitudes, personality), communication, feedback, interviewing, negotiations, conflict, team work, persuasion, presentation, power and influence, participative decision making and delegation. The course will consider the relevant theoretical and conceptual models relating to these topics but will also place an emphasis on practical applications involving simulations.

### **6585 People in Organizations**

3 credit hours

Students study theories and concepts in strategic human resource management, employee relations, and industrial relations. The course is designed to build on the fundamentals of organizational behavior concepts and processes, and labour relations frameworks and knowledge

to a systematic and strategic approach to managing people and processes in organizational settings.

**Note:** Students cannot receive credit for this course if they have credit for MGMT 5585.

### **6595 Responsible Leadership**

6 credit hours

In today's complex and global business environment, leaders must be skilled at managing conflicting expectations of multiple stakeholders, and creating organizational contexts and cultures for responsible decision making. Students examine contemporary leadership and ethical dilemmas, and acquire the theoretical knowledge and analytical skills necessary to resolve these dilemmas.

**Note:** Students cannot receive credit for this course if they have credit for MGMT5586 OR MGMT6694.

### **6600 Entrepreneurship: Theory and Concepts**

3 credit hours

This course covers the nature of entrepreneurship; theories of entrepreneurship; characteristics and behaviors of entrepreneurs; the entrepreneur as catalyst for economic activity; application of the concepts of entrepreneurship to public and non-profit enterprises, both large and small; and entrepreneurship in developing and developed economies.

### **6601 Essentials of Management Consulting**

3 credit hours

This course is an introduction to management consulting for those considering a possible career in the field. It provides an overview of the history, trends, dynamics and competitive structure of the industry. Emphasis will be on the consulting process in action. The course will introduce participants to key practices in undertaking a consulting assignment, including the preparation of proposals and managing the consulting process. Issues facing the consulting profession, including ethical decision making, will also be addressed.

**Note:** Students are advised to consult with the Chairperson of the Department re: arrangements with the Canadian Association of Management Consultants for registration in this particular course.

### **6681 International Business Management**

3 credit hours

The course focuses on the nature and environment of international business management, including the study of multinational corporations and joint ventures and their impact on the host country, inter-cultural differences and their effects on management style, policy, and execution.

### **6682 Performance Management**

3 credit hours

The focus of this course will be in two areas: Performance Evaluation and Reward Systems. In performance evaluation, this course introduces the students to elements of an effective performance appraisal system, types and accuracy of various performance measures and alternate appraisal methods. The course also provides a fairly detailed understanding of the issues involved in job evaluation, designing compensation systems, especially managerial

compensation, fringe benefits and application of motivation themes to performance management.

### **6683 Management of Interpersonal Relations**

3 credit hours

This course aims at improving the individual's ability to interact productively with others in two-person and small group relationships. It seeks to develop an individual's awareness of how a person's behavior affects and is affected by that of others.

### **6684 Management of Organizational Design and Development**

3 credit hours

A study of the evolution of organizational design and the use of current techniques in organizational development. Emphasis is placed upon understanding how the evolution of organizational structures has affected our present ones and how current research can be utilized to improve and develop them in the future.

### **6685 Strategic Human Resource Management**

3 credit hours

An investigation of the role of the personnel manager and the changes in the nature of responsibilities brought about by changes in the legal and technological environments of organizations. The course deals mainly with human resource planning, selection, and compensation and the development of the human resources of the organization.

### **6686 Industrial Relations**

3 credit hours

This course reviews the development, structure, and operations of labour unions. It introduces the student to the legislation that governs labour-management relations in the unionized context. Included here are laws governing union certification, unfair labour practices, strikes, lockouts and picketing and other key issues. This course also deals with negotiation of collective agreements and various means of conflict resolution, such as conciliation, mediation, and arbitration.

### **6687 New Venture Opportunities**

3 credit hours

Students are led through the development of the major elements required for a business plan for a new venture, as well as developing an appreciation for new venture growth in the economy. As a planning and financing tool, the business plan outlines in detail and specifically finance, management and the overall feasibility of a possible new venture. Attention is given to customizing the plan to specific requirements of different financing (e.g., venture capital, bank finance, angel investors).

### **6689 Strategic Management I**

3 credit hours

This course focuses attention on the role of the senior management function to develop and implement strategy in the context of the resources. It draws upon case material based on companies of differing sizes, technologies and degrees of diversification. By providing an insight into the problems and responsibilities faced by general management at the senior level, it seeks to provide an overall perspective for the remainder of the program.

**6690 Seminar in Management**

3 credit hours

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.

**6691 Staffing, Training and Development**

3 credit hours

This course deals with two important human resource activities: staffing and organization with the right individuals and training them to perform their current and future responsibilities competently. This course would cover topics such as recruitment techniques, selection tools (e.g., tests, interviewing), orientation and training, and management techniques using various learning principles.

**6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular management courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6694 Ethical Issues in the World of Business**

3 credit hours

The purpose of this course is to introduce basic ethical concepts and principles in order to increase understanding and use of ethical reasoning in a managerial context; and to deepen the ability to think critically. The focus is on the individual decision maker; the organization as an ethical agent; the organization as a context and culture that sets the stage for ethical action; and the broader societal, economic, political, and ecological systems that influence moral decision making. The emphasis is on "living ethics" rather than "teaching ethics". Part of the learning process is discovering and applying one's own values through experiential and reflective exercises.

**6695 Small Business Performance Improvement**

3 credit hours

This course requires students to work with a small business owner/manager to identify a small business problem, to develop a workable solution to the problem, and to implement that solution.

**6696 The Negotiating Process**

3 credit hours

Prerequisite: MGMT 6686 or permission of instructor.

The focus of this course is on the negotiating process with special emphasis on contract negotiation between management and union. It examines the nature of negotiation, planning and preparation for negotiation, negotiating theories, strategies and tactics. It also examines the roles of such key elements in negotiation as communication, persuasion, power and ethics.

**6697 Family Business**

3 credit hours

This course is designed to look at the dynamics of family-owned businesses which have problems peculiar to its

family orientation. This course would cover issues such as: income vs. inheritance, management and promotion, bringing non-family resources to the firm, harvest and sell-out strategies, succession, deciding to join the family firm, establishing credibility as a daughter or son, stages of family business growth, and strategic planning.

**6699 Major Research Project (MRP) in Management**

6 credit hours

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.

**6789 Strategic Management**

3 credit hours

Prerequisites: MKTG 6571; ACCT 6548; MGSC 6506; MGSC 6515; CISY 6521; MGMT 6585; ECON 6502; FINA 6561

Students in this capstone course focus attention on the role of senior management in developing and implementing strategy in a variety of contexts. Students gain insights into the problems and responsibilities faced by senior management, and develop the skills needed to provide overall direction for organizations.

**Note: Students cannot receive credit for this course if they have credit for MGMT6689.**

## Management Science (MGSC)

**6506 Business Statistics**

3 credit hours

Students build on their existing analytical foundation to develop an in-depth understanding of statistical techniques used in business. The focus is on statistical analysis of real business problems in their full complexity. Topics include descriptive and inferential statistics including nonparametric techniques, ANOVA, multiple regression, practical significance, and various statistical software packages.

**Note: Students cannot receive credit for this course if they have credit for MGSC5506.**

**6515 Strategic Operations Management**

3 credit hours

Students consider the critical role of operations in both service and production environments, and build capacity for managing operations activities using the necessary tools to leverage the strategic value of operations. Topics may include: project, quality, supply chain management; forecasting; design; and environmental sustainability.

**Note: Students cannot receive credit for this course if they have credit for MGSC5515.**

**6603 Statistical Applications in Management Science**

3 credit hours

This course brings together many of the theories and skills which the student has learned and uses them in designing, conducting, analyzing, and reporting the results of research designs. Statistical techniques used are: chi-square, analysis

of variance, and multiple regression. Extensive use is made of computer-oriented statistical packages.

**6604 Statistical Applications in Management Science II**  
3 credit hours

**6615 Strategic Design and Improvement of Operations**  
3 credit hours

This course is aimed at the student who wants to deepen their understanding of the strategic role of operations and the design of operations to facilitate competitive advantage in both service and production environments. The strategic design and improvement of operations will be examined in the context of key performance priorities such as: cost, quality, flexibility, delivery, and time. Topics include: process design and improvement, implementation of operations improvement strategies, and integration of information technology and operations systems. The course will make significant use of cases and group work.

**6616 Project Management**  
3 credit hours

This course introduces students to fundamental issues in managing projects: project definition and scope, networks, risk management, scheduling, monitoring, organizational structure and leadership, and professional requirements. Students are exposed to project management software.

**6618 Total Quality Management**  
3 credit hours

This course introduces the student to the concepts of total quality management, quality improvement, and statistical quality control as key ingredients of a quality strategy. The role of a quality strategy in improving the competitiveness of the firm in both local and international markets is emphasized. Using a case-oriented approach, students will be introduced to the philosophies of Deming, Juran and Crosby, the dimensions of product and service quality, modern statistical improvement tools, and the relationship between quality strategy and the functional areas of the firm.

**6619 Design and Management of Supply Chains**  
3 credit hours

This course provides students with the fundamental tools to understand, analyze, and design the supply chain. The supply chain is a strategic driver that has enabled many well-known companies to gain and sustain competitive markets. Heightened customer expectations around product and service quality, speed of delivery, operating costs, and innovation require the careful design and management of a firm's supply chain processes. The course also emphasizes the supply chain as a strategic asset that must be aligned with the firm's corporate strategy.

**6690 Seminar in Management Science**  
3 credit hours

This course deals with selected topics in management science. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

**6692 Directed Study**  
3 credit hours

Intended to supplement or provide an alternative to the regular management science courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6699 Major Research Project (MRP) in Management Science**

6 credit hours

Each student is required to complete a project involving the practical application of the research concepts and techniques used in management science, under the direct supervision of a faculty member. Interdisciplinary projects are acceptable.

## Marketing (MKTG)

**5571 Marketing Management: An Overview**  
3 credit hours

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.

**6571 Marketing Management**  
3 credit hours

Working from a managerial perspective, students explore 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.

**Note:** Students cannot receive credit for this course if they have credit for MKTG5571.

**6670 Ethical and Social Analysis in Marketing Decisions**  
3 credit hours

This course studies the application and integration of ethical and social analysis in marketing decisions. It also considers whether, when, and how to recognize and reconcile the interests of diverse groups of marketing stakeholders when making marketing decisions. The groups include customers and clients, channel members, suppliers, governments at all levels, as well as public-interest groups and society at large.

**6671 Services Marketing**  
3 credit hours

An examination of the marketing management process as applicable to service organizations. Students will develop a marketing framework relevant to services marketing. With emphasis on current literature, service-quality management, managing the customer and marketing mix, designing and managing a marketing-oriented service organization, globalization of services, strategy formulation for profit and non-profit services will be addressed.

**6672 Marketing Communications: Planning and Strategy**  
3 credit hours

A study of communications theory as it applies to the role of interpersonal and mass communication media in marketing. Emphasis is placed on the formulation, coordination and evaluation of the effectiveness of advertising, personal selling, sales promotional, and public relations strategies.

**6673 Marketing Distribution: Planning and Strategy**

3 credit hours

A systematic analysis of the decision-making factors underlying the development of effective distribution policies and strategies. The course focuses on the institutions and functions of the marketing channel with emphasis placed on distribution regulation, direct selling, retail, wholesale and physical distribution functions.

**6674 Marketing on the Internet**

3 credit hours

This course will provide students with an understanding of the Internet as a marketplace. Technical as well as managerial issues involved in electronic commerce will be addressed. Using online readings, cases, and assignments, students will develop an understanding of the rapidly developing and changing Web-based market, and the associated consumer behaviour and marketing strategy issues.

**6675 Multinational Marketing**

3 credit hours

A comprehensive survey of the nature and environment of multinational marketing. This course focuses on the marketing management aspects of multinational business. Emphasis is placed on developing analytical decision-oriented abilities in the area of multinational pricing, product, policy, distribution, promotion, research and development, and market segmentation.

**6676 Consumer Behaviour: Decision-Making Applications**

3 credit hours

An examination of the buying behaviour of individuals as it is affected by psychological and sociological influences. Emphasis is placed on the understanding of how such behavioral-science concepts as social class, reference group, perception, attitude, motivation, personality and learning can contribute to the improvement of marketing decision-making.

**6677 Brand Management**

3 credit hours

This course is intended to provide students frameworks, concepts and skills required to launch and manage brands successfully. Students explore consumer-brand relations, and cultural, societal and organizational factors that affect brands. Managerial aspects of brand management such as brand equity, brand extensions and brand portfolio management are a major focus in the course.

**6678 Marketing Research**

3 credit hours

A study of the decision-making application of marketing research techniques and procedures. Emphasis is placed on research design, sampling, data collection, analysis and presentation.

**6679 Strategic Marketing**

3 credit hours

In this course, students will develop understanding and analytical skills to make strategic choices for achieving sustainable competitive advantage in global market

environments. Method of instruction may include seminar discussions, case analysis, simulations, secondary research and field research projects.

**6690 Seminar in Marketing**

3 credit hours

An in-depth study of selected topics. Selections for discussion are at the discretion of the instructor, with approval of the Department. Issues to be discussed may include such topics as marketing productivity, marketing auditing, marketing models, social issues in marketing. Topics will vary from year to year. The course may be repeated for credit hours when topics vary.

**6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular marketing courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6699 Major Research Project (MRP) in Marketing**

6 credit hours

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.

**MBA (SMBA)**

**6010 Professional Development**

0 credit hours

Through a series of workshops led by internal and external experts, students work through a detailed process to create a customized professional development plan. Supported with personal coaching and engagement with business professionals, students work to enhance targeted competencies and learn to create their own professional development plan to achieve future goals.

**NOTE:** Successful completion of this course will result in an “S” (satisfactory) grade on the student’s transcript. This will not be counted into grade point averages.

**6020 Immersive Learning**

0 credit hours

In this required non-credit course, students engage in hands-on learning opportunities, applying concepts learned in the first year of the MBA Program. These immersive learning experiences focus on case competitions, service learning, entrepreneurship, and innovation.

**NOTE:** Successful completion of this course will result in an “S” (satisfactory) grade on the student’s transcript. This will not be counted into grade point averages.

**6500 International Learning Experience**

3 credit hours

The International Learning Experience provides an opportunity for MBA students to experience first-hand the business operating environment of an international destination. Students will participate in classroom activities and tour sites of financial, political, social and cultural

importance in order to better appreciate the opportunities and risks associated with conducting business internationally.

**6601 Integrative Management Exercise**

3 credit hours

This course will use experimental learning methods such as simulations and/or field projects to integrate the different functional areas of business. Students will work in teams and will formulate/implement business strategies. In addition to emphasizing the inter-relationships between functional areas, the course will also develop critical managerial skills.

**6690 Special Topics**

3 credit hours

This course will offer an in-depth examination of current or emerging and innovative topics in management. The topics may be of a cross-functional or multidisciplinary nature. The course will provide a balance between theory and application. The course may be repeated for credit when topics vary.

**6696 Small Business Accounting and Finance**

6 credit hours

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.

**6698 MBA Consulting Project (MCP)**

3 credit hours

This course will provide students with an opportunity to apply concepts and theories learned in the program in a practical setting. Students will be assigned individually or in teams to a business or non-profit organization. Students will work with the client organization, under the supervision of a faculty member, to develop a detailed consulting report.

**6699 MBA Internship**

3 credit hours

The MBA Internship provides students an experiential learning opportunity through work experience in an organization. Students will be able to apply the concepts learned in the program and will also be able to bring back real life experience into the classroom. Students will be required to submit reports during and at the end of the work term. An employer assessment of student performance will be conducted.

## Master of Business Administration (CPA)

---

Program Director	D. Bateman
Managing Director	L. Ray
Program Assistant	J. McIntyre
Career Services Manager	K. Nichols

Following upon the success of the Sobey MBA-CMA program, the Sobey School of Business has developed an accelerated three year part-time MBA program specializing in professional accounting. The MBA (CPA Stream) commenced in September 2015.

This accredited (CPA Canada) program has been designed to integrate the breadth of an MBA program and the CPA competency map with concentrated studies in the accounting competency areas of financial management, managerial accounting & performance management. Students who successfully complete this program will receive their MBA degree and be eligible to take the professional common final exam preparation course and write the CPA common final exam. Only upon successful completion of the CPA common final exam and appropriate professional accounting work experience will candidates receive their professional accounting designations (CPA) from their provincial CPA association.

Features of the program include 8 hour classes that will meet every 4-5 weeks on Fridays and Saturdays during the academic year with 3 face to face classes per course. In addition to the face to face meetings, there will be web-based instructional materials and communications used throughout the program. The program will provide a broad management view of various business and organizational problems. Students will gain an understanding of economic, ethical, social, political, and environmental forces that affect the organization and influence managerial decisions.

Permanent work groups will be formed and utilized extensively within the program. However, individual performance (demonstrated competencies) will determine academic success. Managerial experiences and practical backgrounds of participants will be utilized by evaluating issues within the students' organization. An exchange of information and insights will be encouraged among participants from diverse industries, organizations, functions and responsibilities.

### Admission Requirements:

Applicants to the Sobey MBA (CPA Stream) must normally meet the minimum requirements of entry into both the CPA professional education program and the Sobey School of Business MBA program.

Specific admission requirements for the MBA (CPA Stream) are as follows:

Degree: Four year undergraduate degree (usually a business degree BBA or BComm) from a recognized college or university. A minimum CGPA of 3.0 (B) out of 4.3 is expected. Official transcripts must be sent from each post-secondary institution attended by the applicant.

Work Experience: Entering students should normally have a minimum of two years business related work experience that is not required to be in accounting. This may include co-op work terms, summer and part-time jobs. At the time of admission, students must normally be working full time in an appropriate accounting related position or have a contract for such future employment before entering the program. Such employment will be necessary to fulfil the practical experience requirements of the accounting profession to obtain the CPA designation. This practical experience requirements can also be completed after completion of the MBA (CPA Stream) degree requirements.

English Language Proficiency: The MBA program is fast-paced with much reading, report writing and team work. Strong English language proficiency is important for success in the program. Students whose native language is not English must submit an official English language proficiency test score. A TOEFL (ibt) of at least 100 with no band below 20 is required. An IELTS score of at least 7.0 is required, with no band below 6.5.

References: Three referees should be current/former supervisors at work or current/former professors who can judge the applicant's suitability for graduate work and leadership potential. Friends and relatives should not be asked to complete recommendation forms.

Prerequisites: In addition to the CGPA requirements of 3.0, students must have successfully completed the course equivalency of the entry level pre-professional accounting education requirements of the CPA profession as outlined by the prevailing Canadian CPA competency map. Minimum acceptable grade in these prerequisite courses is a C+ with an overall minimum average of C+. You must also be a member (student) in good standing of a provincial CPA professional body.

\* N.B. Conditional acceptance may be granted in circumstances where the applicant is registered in an appropriate competency map bridging program or equivalent university accounting courses. Successful completion of said bridging programs/university course is a condition of acceptance to the program.

Applicants to the program who hold an existing commerce degree and a professional accounting designation (CA, CMA, CGA) are also eligible to apply for the MBA (CPA stream) program. Candidates must meet all the other entry requirements for the MBA program as well as an admissions interview prior to acceptance. SMBA 6698 MBA Consulting Project (MCP) will be substituted for one of the final courses in the MBA (CPA Stream).

In order to be considered for admission to the program, the application file must have the following documents:

a. Complete the online application at <http://www.smu.ca/future-students/cs-apply-online.html>, including a non-refundable application fee of \$70.00.

**b.** An official transcript from each post-secondary institution where courses or programs were taken. These include completed or incomplete degrees or diplomas, upgrading courses and professional certificates. Transcripts must be sent directly by the institution issuing the transcript and not by the applicant.

**c.** Essays and short answers, as required in the supplementary form. The supplementary form is found on FGSR's website.

**d.** Current and detailed resume. Indicate job title, name of employer, duration of job, nature of responsibilities and contribution made to the employer, education, extra-curricular achievements, volunteer experience and skills. A chronological resume is preferred.

**g.** Three referees should be current/former supervisors at work or current/former professors.

**f.** Students whose native language is not English must submit an official English language proficiency score. Applications that do not contain all of the above items will **NOT** be processed. Please note that all documents must be originals or notarized.

All supporting documents must be sent directly to the Faculty of Graduate Studies and Research.

Once your online application is submitted, contact the Sobey MBA (CPA Stream) Program if you require further information or in order to find out the status of your application.

A non-refundable confirmation of acceptance deposit of \$100.00 Canadian is applicable. This deposit will be applied to tuition fees on registration.

Applications for admission should be made as early as possible, since admission is competitive. The application deadlines are as follows.

To Start Program in September:

- Canadian Applicants (full or part-time) – 15 June
- International Applicants – 1 April

### Program Requirements

See the FGSR Program Requirements in Section 2 of the *Graduate Studies Academic Calendar* and below.

Candidates will be required to complete forty two (42) credit hours (as listed below) to earn the MBA degree.

All courses must be taken at Saint Mary's University. A minimum grade point average of 3.0 is required for graduation from the MBA degree.

Required courses:

ACCT 6626 Management Information Systems: Strategy and Practice

ACCT 6641 Financial Reporting and Statement Analysis

ACCT 6650 Integrative Managerial Accounting I

ACCT 6652 Integrative Managerial Accounting II

ACCT 6656 Integrative Financial Accounting

ACCT 6660 Integrative Public Auditing

ACCT 6666 Taxation and Financial Planning

ACCT 6690 Seminar in Accounting

MGMT 6682 Performance Management

MGMT 6689 Strategic Management

MKTG 6679 Strategic Marketing

MGSC 6615 Strategic Design and Improvement of Operations

FINA 6663 Financial Management

SMBA 6601 Integrative Management Exercise

SMBA 6010 Professional Skills (non-credit course)

Students holding a previous accounting designation will substitute SMBA6698 MBA Consulting Project for ACCT6690 Seminar in Accounting.

## Graduate Courses

### Accounting (ACCT)

#### 6626 Management Information Systems: Strategy and Practice

3 credit hours

This course addresses the rising need of managers to recognize the strategic importance of information systems and to be able to create new work environments which allow their organizations to leverage knowledge globally, organize for complexity, work electronically, and handle continuous and discontinuous change. The concept of information as a corporate resource which must be effectively planned, developed, managed and controlled is emphasized.

#### 6641 Financial Reporting and Statement Analysis

3 credit hours

This course examines financial statements from the perspective of both preparers and users of financial information. Commencing with analytical models of information production, the course focuses on various mechanisms of information extraction. Techniques such as ratio analysis, signal extraction, forecasting are used to establish functional relations between the accrual process and the economic position of a firm. Consequently, the course provides a framework for using accounting information to evaluate a firm.

#### 6650 Integrative Managerial Accounting I

3 credit hours

Beginning with organizational goals and objectives, and involving strategy, policy, and implementation issues, this course examines the development of management planning and control systems in the modern organization. The focus will be on techniques and processes that lead to improved management decision making. Some of the topics discussed may include activity-based management, target costing, value chains, life cycle costing, principal and agency relationships, and customer value analysis. Integrative problem solving and case-analysis will be emphasized both at a group and individual level.

#### 6652 Integrative Managerial Accounting II

3 credit hours

This is a continuation of Integrative Managerial Accounting I. Particular emphasis is placed on the study of change

management processes and techniques, and performance analysis and evaluation. Some of the topics discussed may include economic value added, balanced scorecard, total quality management, corporate reengineering, and strategic brand valuation. Integrative problem solving and case-analyses will be emphasized both at a group and individual level.

**6656 Integrative Financial Accounting**

3 credit hours

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.

**6660 Integrative Public Auditing**

3 credit hours

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.

**6666 Taxation and Financial Planning**

3 credit hours

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.

**6690 Seminar in Accounting**

3 credit hours

The course deals with selected topics in the accounting area. Current development in accounting and other related areas will be studied.

**6692 Directed Study**

3 credit hours

Intended to supplement or provide an alternative to the regular accounting courses in order to meet the special needs and interests of students, the course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

**6699 Research Project**

6 credit hours

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.

## **Finance (FINA)**

**6663 Financial Management**

3 credit hours

Managerial in emphasis, this course examines financial planning and analysis, working capital management, capital budgeting techniques, and theories of cost of capital and valuation of the firm.

## **Management (MGMT)**

**6682 Performance Management**

3 credit hours

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.

**6689 Strategic Management**

3 credit hours

This course focuses attention on the role of the senior management function to develop and implement strategy in the context of the resources. It draws upon case material based on companies of differing sizes, technologies and degrees of diversification. By providing an insight into the problems and responsibilities faced by general management at the senior level, it seeks to provide an overall perspective for the remainder of the program.

## **Management Science (MGSC)**

**6615 Strategic Design and Improvement of Operations**

3 credit hours

This course is aimed at the student who wants to deepen their understanding of the strategic role of operations and the design of operations to facilitate competitive advantage in both service and production environments. The strategic design and improvement of operations will be examined in the context of key performance priorities such as: cost, quality, flexibility, delivery, and time. Topics include: process design and improvement, implementation of operations improvement strategies, and integration of information technology and operations systems. The course will make significant use of cases and group work.

## **Marketing (MKTG)**

**6679 Strategic Marketing**

3 credit hours

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.

## **MBA (SMBA)**

### **6010 Professional Development**

0 credit hours

Through a series of workshops led by internal and external experts, students work through a detailed process to create a customized professional development plan. Supported with personal coaching and engagement with business professionals, students work to enhance targeted competencies and learn to create their own professional development plan to achieve future goals.

**NOTE:** Successful completion of this course will result in an “S” (satisfactory) grade on the student’s transcript. This will not be counted into grade point averages.

### **6601 Integrative Management Exercise**

3 credit hours

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.

### **6698 MBA Consulting Project (MCP)**

3 credit hours

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.

## Master of Finance (MFIN)

Program Director	C. Dodds, Finance, Information Systems and Management Science (FISMS)
MFin Program Council	N. Attig, FISMS F. Boabang, FISMS A. Dar, Economics M. Rahaman, FISMS X. Song, Accounting

The Master of Finance (MFin) program is based on the concepts and theories of financial engineering. The objective of this twelve-month intensive program is to prepare graduates for careers in financial analysis and advising, portfolio and risk management, and corporate finance. This is achieved through a combination of classroom instruction, independent research and hands-on use of financial data and proprietary financial management software. The program is lock-step in sequence and prepares students for Levels 1, 2 and 3 of the Chartered Financial Analyst (CFA) designation through in-depth exploration of finance areas and a CFA Exam Preparation workshop. Enrolment in the CFA program and registration in the CFA Level 1, 2, or 3 exam are included in the MFin Program Fee.

### Admission Requirements

The MFin follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the *Graduate Studies Academic Calendar*. Admission requirements include:

1. A four-year bachelor degree or equivalent with an overall B average (75%) or higher. Preference is given to degrees in engineering, physics, economics or other quantitative discipline. The minimum average across all quantitative courses completed in the degree must be:
  - a. 75% for students with a degree in engineering, physics, computer science or mathematics/statistics degrees
  - b. 80% for students with a degree in business
  - c. 85% for students with degrees in economics or international trade
2. Students whose first language is not English, and who have not attended an English language secondary school or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests
3. Three recommendations forms
4. A GMAT score is not required but a satisfactory score will strengthen the application
5. An interview may be required for further assessment. The program will contact these applicants.
6. Relevant work experience is not required but considered an asset..

Enrolment is limited. Preference will be given to candidates who exceed the above minimums. Meeting the minimum requirements does not guarantee admission.

The application deadline is April 1 for International applicants and June 1 for Canadian applicants.

### Program Requirements

See the FGSR Program Requirements in Section 2 of the *Graduate Studies Academic Calendar* in addition to the requirements detailed below.

The MFin Program is lock-step in nature and the courses are in modules which are designed to be taken in sequence. There are six modules in total. Modules one to four are approximately 6.5 weeks long and consist of two to three courses each. Modules five, six (a) and six (b) are 4.5 weeks long and consist of two to three courses each. Students must successfully complete all degree requirements.

Students with a full admission (unconditional offer) start the program in September.

Students who have a conditional offer, based on language, must improve their language skills before August 25 in order to attend the MFIN program in September. An applicant with a conditional offer based on language can either:

- (1) Submit a new official language score to FGSR that meeting the full admission requirement by August 25 as detailed in Section 2 of the *Graduate Studies Academic Calendar*, or
- (2) Successfully complete the Pre-Master of Finance (Pre-MFIN) English language program at the Language Centre at Saint Mary's University.

### Pre-Master of Finance (Pre-MFIN) Language Program

The eight week Pre-MFIN English language program at the Language Centre at Saint Mary's University is designed for students whose first language is not English and who have not previously studied in English. The program typically begins in late June. Students with conditional acceptances based on language will automatically be eligible to take this program. Students who choose to take the Pre-MFIN program must successfully complete the program requirements in order to begin the Master of Finance in September. If a student is unsuccessful in the Pre-MFIN program they will not be admitted to the MFIN program.

Students must complete all courses listed, except those who choose to complete the major research project (MRP) in lieu of the final two courses (Eligibility requirements apply for the MRP elective). See course list and notes below.

### Pre-MFIN English Language Program

Students enrolled in this program must successfully complete the program requirements in order to move on to the Master of Finance program.

### 1st Semester – September to December

#### Module 1

MFIN 5500 Microeconomics and Business Strategy

MFIN 5540 Financial Accounting

**Module 2**

MFIN 5501 Macroeconomics and Public Policy  
MFIN 6603 Applied Statistics and Data Analysis  
MFIN 6663 Financial Management

**2nd Semester – January to April**

**Module 3**

MFIN 6641 Financial Statement Analysis  
MFIN 6664 Corporate Finance  
MFIN 6666 Investments

**Module 4**

MFIN 6667 Futures and Options  
MFIN 6670 Fixed Income Securities  
MFIN 6672 Applied Portfolio Management

**3rd Semester – May to August**

**Module 5**

MFIN 6609 Econometrics and Business Forecasting  
MFIN 6676 International Business Financing and Banking  
Workshop: CFA Exam Preparation

**Module 6**

MFIN 6671 Financial Markets and Institutions Finance  
MFIN 6690 Special Topics in Finance and Research  
Methodology

**Module 7**

MFIN 6669 Risk Management (non-MRP option only)  
MFIN 6691 Investment Banking (non-MRP option only)  
MFIN 6692 Masters Research Project

Participation in the Finance Workshop: CFA Exam Preparation is mandatory. All students are required to sit the exam in June.

\*Students wishing to complete MFIN 6692 Masters Research Project in lieu of MFIN 6669 and MFIN 6691 may do so with permission from the MFin Program Director. Normally, only students with a GPA of 3.5 or better out of 4.3 at the end of the 2<sup>nd</sup> semester will be considered.

For the revised minimum and maximum time-for-completion of the MFin program, see the table associated with FGSR Academic Regulation 19 in Section 2 of this Academic Calendar.

## Graduate Courses (MFIN)

### 5500 Microeconomics and Business Strategy

3 credit hours

The objective of this course is to provide students with the microeconomic analytical tools applied in managerial decision-making under constraints and uncertainty. The focus will be on the theory of consumer behavior and demand, theory of production and cost in both the short run and long run behavior of the firm, and the appropriate firm pricing strategy under different market structures.

### 5501 Macroeconomics and Public Policy

3 credit hours

The course examines the operations of the macroeconomy in the short and long run, and discusses the macroeconomic functions of the public sector in a market economy. Special attention will be given to the interaction between domestic

and international asset markets (including the market for foreign exchange) and the market for goods and services, and to the role of fiscal and monetary tools that can be employed by public policy makers to affect overall economic activity and to influence the operation of business organizations in a global economy.

### 5540 Financial Accounting

3 credit hours

Financial Accounting provides an introduction to reporting to parties external to the organization. Using a conceptual approach, the course gives a thorough understanding of financial reporting concepts, principles and practices and how to interpret and analyze financial statements. An appreciation of the limitations inherent in published financial reports is provided throughout the course. This course is intended to provide the prerequisite knowledge and skill set for a second course, Financial Statement Analysis.

### 6603 Applied Statistics and Data Analysis

3 credit hours

The objective of the course is to provide the student with an in-depth understanding of the most useful applied statistical techniques used in data analysis. Emphasis will be on designing, conducting, analyzing, and interpreting the results of research designs. Topics include a review of statistical inference, basic ideas of linear regression, multiple regression analysis, functional forms of regression models, and several practical aspects of the linear regression model. Extensive use is made of computer-oriented statistical packages.

### 6609 Econometrics and Business Forecasting

3 credit hours

The objective of this course is to provide students with a solid working knowledge of the theory and practice of econometric modeling and forecasting. The focus will be on selected topics in econometrics (with emphasis on newer developments) and on the most commonly forecasting methods (such as exponential smoothing, time series decomposition, and AIRMA-type forecasting models) that may usefully be applied in a real world setting to forecast financial as well as non-financial economic variables.

### 6641 Financial Statement Analysis

3 credit hours

The course examines financial statements from the perspective of both preparers and users of financial information. The course begins with the conceptual framework underlying the reporting process and proceeds to a structured analysis of the basic financial statements: The income statement, the balance sheet and the statement of cash flows. Here, the supply side (the various models of information production) will be emphasized. The course then shifts to the demand side of the financial information, where the focus is on the myriad mechanisms of information extraction. Modern techniques such as *multiplies* and *forecasting* are used to establish a functional relationship between the accrual process and the economic position of a firm. The course will focus on the valuation approach: The informed use of accounting numbers in projecting cash flows and determining fundamental security values. The student will appreciate the judicious use of accrual accounting in all facets of financial decision-making.

**6663 Financial Management**

3 credit hours

This course provides an introduction to financial management and the role of finance, both within the organization and the economy as a whole, with emphasis on financial decision-making. Managerial in emphasis, this course examines financial planning and analysis, working capital management, capital budget techniques, and theories of cost of capital, portfolio theory and valuation of the firm. Other topics considered include investment decisions and subsequent financing such as leverage and capital structure of the firm, and dividend policy. This course is intended to provide the prerequisite knowledge and skill set for a second course, Corporate Finance.

**6664 Corporate Finance**

3 credit hours

This course will examine contemporary financial theories and their applications in formulating corporate policies in major areas such as asset allocation, i.e., which capital investments to undertake, how to finance them, i.e., capital structure and dividend policy management and corporate restructuring. Case studies and problems will be used to facilitate the understanding of how financial theories can be applied in practice. The course objectives: students (i) will acquire knowledge and understanding of the concepts and mainstream theories in corporate finance including recent developments in the area; (ii) will be able to evaluate the strengths and limitations of up-to-date theories and practices in corporate finance; (iii) will be able to apply financial theories in corporate financial management and policy making. In summary, this course is designed to develop skills found in competent financial managers.

**6666 Investments**

3 credit hours

Both qualitative and quantitative treatments of risks and returns associated with investments in the Canadian market are discussed. Topics include: sources of financial information, market indicators, market transactions, margin trading risk aversion, expected utility, risk and return analysis, CAPM, single- and multi-index, models and APT, market efficiency, fixed income, equity securities, derivatives, portfolio management and ethics of investing.

**6667 Future and Options**

3 credit hours

This course is intended to help students understand derivatives, with emphasis on options and futures. It provides a detailed introduction to the markets, characteristics, applications, and valuations of various futures and options. Topics covered include commodity futures, stock market index futures, interest rate futures, foreign currency futures, stock options, stock market index options, interest rate option, currency options, options on futures, and some exotic options. The binomial option pricing model and Black-Scholes option pricing model are covered, including the stochastic processes underlying the Black-Scholes model and derivation of the model.

The course will be delivered in forms of lectures and lab work. While the lectures will introduce the theories, models, and principles, the lab work will expose students to real

derivative markets, and help students use financial market databases and option pricing and analysis software.

**6669 Risk Management**

3 credit hours

This course introduces students to a very important area: risk management. It will firstly provide an overview of risk management, including the institutional issues, and the concept of firm-wide risk management. Then, various tools and methodologies of risk management will be explored, with focus on using derivatives. It will discuss the management of some major types of risks such as market risk, interest rate risk, currency risk, credit risk, and so on. In addition to lectures, several cases will be studied.

**6670 Fixed Income Securities Analysis**

3 credit hours

This course provides a detailed analysis of the bond and money markets and the instruments available therein. Although the emphasis is on North American securities, global portfolios are also examined. Bond valuation and bond portfolio management strategies – duration and convexity – are covered in depth. Treasury securities and STRIPS, corporate bonds, municipal bonds, term structure of interest rates, mortgage market – mortgage backed securities and CMO's, bonds with embedded options, and interest rate risk management and swaps are addressed. This course serves as a basis for the Financial Analysts Program.

**6671 Financial Markets and Institutions**

3 credit hours

This course will deal with the structure and function of Canadian financial institutions such as: banks, brokers and investment banks, insurance companies and mutual funds. The role of each type of institutions in the economy will be discussed as well as regulation of the industry. The main emphasis of the course will be on the institutions as businesses; their profit and risk structure.

**6672 Applied Portfolio Management**

3 credit hours

Students will analyze the decision-making process of portfolio managers including the aggregate stock market. Different types of investment funds (both active and passive), their objectives, performance evaluation and attribution analysis, bond portfolio analysis, interest rate risk management, and conflicts of interest will be discussed.

**6676 International Business Financing and Banking**

3 credit hours

This course is organized around two themes – (i) the concept of multinational firm and the financial management decisions it takes in a multi currency world and (ii) the challenges faced in the international banking system of asset/liability management, off shore financial centers, external debt and rescheduling and increased regulatory and supervisory measures.

**6690 Special Topics and Empirical Research Methods in Finance**

3 credit hours

Students apply statistical model building to topics, such as market efficiency, performance evaluation techniques, performance decomposition (market timing, selectivity and

asset allocation), and option combinations. Analysis of an IPO under pricing and performance persistence measures is also covered.

**6691 Investment Banking**

3 credit hours

Prerequisites: MFIN 6671, MFIN 6676

This course provides an overview of the world of banking and the interplay of financial regulations, politics, globalization, technology and innovations. Topics include debt and equity financing, corporate mergers and acquisitions, investment banking, private equity funds, sovereign wealth funds and hedge fund activism.

**6692 Masters Research Project**

6 credit hours

This course builds on tools needed to carry out successful empirical research in functional areas of finance, namely corporate, derivatives, investments and portfolio management. Topics include market efficiency, extensions to single and multiple-index models, performance evaluation models and decomposition of relative performance, performance persistence measurements, and evaluation of IPO's underpricing, an evaluation of boundary conditions for option strategies and pricing models and special issues in behavioral finance.

**Note:** Under special circumstances and with the approval of the MFIN Director, students may be permitted to replace MFIN 6666 and MFIN 6691 with MFIN 6692.

## Graduate Programs in Co-operative and Credit Union Management

---

Program Director      S. Novokovic  
Managing Director    K. Miner  
Program Administrator C. Mason

Saint Mary's University offers two international management programs that provide exceptional management skills to current and future co-operative leaders:

- Master of Management, Co-operatives and Credit Unions
- Graduate Diploma in Co-operative Management

These programs are designed for working professionals seeking a part-time, on line program geared to co-operatives, credit unions, and mutuals. The programs draw students, faculty, and researchers from around the globe and from a diversity of co-operative sector organizations.

Throughout the curriculum, management functions are explored within the context of the co-operative business model while being driven by the purpose, values and principles of cooperation. Beyond the development of a deep understanding of the history and evolution of the co-operative movement, learning encompasses governance, strategy, leadership and people management skills through to accounting finance, marketing, and information technology.

The program is predominantly on line with students and faculty in various countries interacting as part of a co-operative learning community. To facilitate this on line learning experience, strong relationships are forged during a one week face-to-face orientation at the start of the program and during the international study tour in year 2 (for Master program students).

### Admission Requirements

These programs follow the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the *Graduate Studies Academic Calendar* with the following additional requirements and procedures.

Application requirements are the same for the Master and Graduate Diploma. To apply, applicants should submit:

- Online application form and fee: ([www.smu.ca/academics/apply-to-grad-studies.html](http://www.smu.ca/academics/apply-to-grad-studies.html));
- Transcripts: Two official copies of all transcripts of your academic record from each university or college attended sent by each issuing institution directly to the Dean, Faculty of Graduate Studies and Research. It is the applicant's responsibility to ensure that all transcripts are sent.
- English Language Proficiency Test Result: Students whose first language is not English must submit an English language proficiency test result (TOEFL, IELTS, CAEL, CanTEST, Cambridge First Certificate in English). This result must come directly to the Dean, Faculty of Graduate Studies and Research from the educational testing centre where it was administered.

- Letter of Intent: A two page description that outlines how the Master or Graduate Diploma program will benefit you and your organization.
- Letter of Support: A letter from the co-operative sector organization (typically your employer) that you will use as a case study, indicating their willingness to have you study various aspects of the organization.
- Resume: Submit a current resume and list your most recent experience first;
- Recommendations: three confidential recommendation forms. At least one recommendation should be from a current or former professor. The other two will be work experience references. Note: If you are unable to find an academic recommendation then three professional recommendations will be accepted.

In addition, we require that you:

- Be actively engaged in the co-operative sector (e.g. employed by a co-operative, credit union, mutual, or sector association serving governance roles, consulting) preferably in a supervisory or management position.
- Have completed an under graduate degree or have an equivalent combination of training and experience.
- Have adequate access to the internet and a computer to enable you to handle the demands of computer-based distance education.

We encourage you to apply early as we review and make acceptance decision on applications throughout the year. **May 31<sup>st</sup> is the standard application deadline**, and application made later than this date will be accepted if space is available.

### Program Requirements

See the FGSR Program Requirements in Section 2 of the *Graduate Studies Academic Calendar* in addition to the requirements detailed below.

Given that the programs are internet-based, using course delivery software, candidates and faculty meet virtually rather than in a classroom setting. There are two exceptions. Candidates gather together in Halifax for a compulsory five day Orientation before beginning their program. While this orientation is not for credit, it is a compulsory part of the program. In addition, during the second year of the Master degree program, part of one class involves a ten day study visit by students to either Spain or Italy to experience integrated cooperative development in action.

The Master degree program consists of thirty-six (36) credit-hours of courses followed by a six (6) credit hour Master Research Project. The program is designed to be completed in three years on a part-time basis. The Graduate Diploma consists of eighteen (18) credit hours of courses followed by a three (3) credit hour Diploma Research Project. The program is designed to be completed in twenty months on a part time basis.

Master and Graduate Diploma students begin their programs as a combined cohort and remain together for the first eighteen (18) credit hours of courses which are consistent

between the two programs. Courses are designed to be taken in sequence by the full entering cohort.

**(All courses are designed to be taken in the order indicated below. The Program Director may grant permission to deviate from the order indicated on a case by case basis)**

### Master of Management, Co-operatives and Credit Unions

Year 1:

MMCC 5100	History and Philosophy (3 credit hours)
MMCC 5110	Global Economy and Society I (3 credit hours)
MMCC 5120	Comparative Practice I (1.5 credit hours)
MMCC 5130	Financial Management I (3 credit hours)
MMCC 5140	Marketing the Advantage I (1.5 credit hours)
MMCC 5150	Innovations I (1.5 credit hours)
MMCC 5160	IT and Communications I (1.5 credit hours)

Year 2:

MMCC 5200	Strategic Analysis I (1.5 credit hours)
MMCC 5201	Leading and Managing People I (1.5 credit hours)
MMCC 5210	Global Economy and Society II (3 credit hours)
MMCC 5220	Governance and Participation (1.5 credit hours)
MMCC 5230	Financial Management II (3 credit hours)
MMCC 5240	Marketing the Advantage II (1.5 credit hours)
MMCC 5270	Field Research and Study Tour (3 credit hours)

Year 3:

MMCC 5300	Strategic Analysis II (1.5 credit hours)
MMCC 5301	Leading and Managing People II (1.5 credit hours)
MMCC 5350	Co-operative Developments (1.5 credit hours)
MMCC5370	Community and Environment (1.5 credit hours)

MMCC 6000 Master Research Project (6 credit hours)

### Graduate Diploma in Co-operative Management

Year 1

MMCC 5100	History and Philosophy (3 credit hours)
MMCC 5110	Global Economy and Society I (3 credit hours)
MMCC 5120	Comparative Practice I (1.5 credit hours)
MMCC 5130	Financial Management I (3 credit hours)
MMCC 5140	Marketing the Advantage I (1.5 credit hours)
MMCC 5150	Innovations I (1.5 credit hours)
MMCC 5160	IT and Communications I (1.5 credit hours)

Year 2:

MMCC 5200	Strategic Analysis I (1.5 credit hours)
MMCC 5201	Leading and Managing People I (1.5 credit hours)
MMCC 5205	Diploma Research Project (3 credit hours)

## Graduate Courses (MMCC)

### 5100 History and Philosophy

3 credit hours

Students consider the historical evolution of co-operatives since the mid-19th century, with particular emphasis on the diversity of co-operative action and the continuing relevance of the co-operative principles and values.

### 5110 Global Economy and Society I

3 credit hours

Students examine the prevailing economic theory and the development of global institutions. The role of growth for economic development is explored, with a reflection on the co-operative model and its transformative potential.

### 5120 Comparative Practice I

1.5 credit hours

Students examine the diversity of co-operatives around the globe, the relative strengths and weaknesses for co-operatives of federations versus networks, and the relationship between co-operatives and poverty reduction and co-operatives and the state.

### 5130 Financial Management I

3 credit hours

This course is designed to provide students with a knowledge base to interpret financial statements, understand the importance of nonfinancial performance reporting, determine the financial health of a co-operative and be aware of good governance and risk management practices.

### 5140 Marketing the Advantage I

1.5 credit hours

Following an introduction to the marketing concept, students debate the benefits and challenges of implementing Marketing the Co-operative Advantage (MOCA) approach. Discussion of target audiences and image communication informs understanding of the influence of values in creating organizational commitment to MOCA..

### 5150 Innovations

1.5 credit hours

Students enhance their understanding of innovation, learn to leverage the co-operative difference to enhance innovation, and analyze examples of innovative management practice.

### 5160 IT and Communications I

1.5 credit hours

Students examine communications technology, the Web, the Internet and impact and barriers to e-business including privacy, security and payment systems.

### 5200 Strategic Analysis I

1.5 credit hours

Students are introduced to a co-operative equilibrium model based on the dual nature and structure of this distinct organization. It presents the identity crisis most cooperatives are facing due to isomorphism. Strategies to avoid such crisis are explored.

### **5201 Leading and Managing People I**

1.5 credit hours

Students analyze leading models of people management in the context of co-operative identity. The personnel functional cycle is reviewed (needs, planning, recruitment, selection, motivation, appraisal, compensation, development, discipline, conflict resolution, industrial relations and change management).

### **5205 Diploma Research Project**

3 credit hours

Prerequisite: completion of Year 1

Based on Year One courses, students propose changes to their organization to improve its operations and enhance its value.

### **5210 Global Economy and Society II**

3 credit hours

Students explore the impact of globalization on the generation of goods and services to meet human need, the ecology of the planet, the distribution of wealth and the role of the state and the location and nature of decision making in the global economy. The potential of co-operatives to play a constructive role is examined.

### **5220 Governance and Participation**

1.5 credit Hours

Students examine the nature and potential of stakeholder co-operatives, various models of board-management relations, and theories of member participation within co-operatives.

### **5230 Financial Management II**

3 credit hours

Students examine the nature of co-operative capital with an emphasis on equity, bylaw requirements, sources of equity, alternative measurements of effectiveness (e.g. balanced scorecard and social audit) and approaches for measuring the cost of equity.

### **5240 Marketing the Advantage II**

1.5 credit hours

Students explore a range of marketing principles and theories, and apply them in the context of co-operatives. This strategic approach emphasizes the internal communication challenges of developing, and benchmarking, MOCA competencies and culture based on co-operative values.

### **5270 Field Research and Study Tour**

3 credit hours

This course consists of case studies and a study tour to a co-operative or credit union network that is perceived to be an exemplar of co-operative management and performance.

### **5300 Strategic Analysis II**

1.5 Credit hours

Building on MMCC 5200, students are introduced to the New Co-operative Paradigm and its application through shared surplus, patronage dividend and loyalty programs as a source of competitive advantage for co-operatives. .

### **5301 Leading and Managing People II**

1.5 credit hours

Students analyze leadership/followership models, styles, formation and applications in the contexts of understanding globalization and environmental crisis. Students examine the challenges posed for co-operative leadership and vision, relating to stakeholder engagement, governance and change management.

### **5350 Co-operative Developments**

1.5 credit hours

Students explore specific organizational issues at different stages of the co-operative lifecycle – from inception through growth and maturity, to reinvention. Risk and factors leading to demutualization are analyzed through case studies

### **5370 Community and Environment**

1.5 credit hours

The seventh co-operative principle is “Concern for Community” including the environment. Students will examine how the co-operative difference relates to community and the environment, such as working in the social economy, environmental stewardship, and social responsibility. Students explore how the co-operative model is ideally suited for community and environment leadership coupled with economic strength.

### **6000 Master Research Project**

6 credit hours

Prerequisite: Completion of all other required Master program courses

Students propose changes to their organization to improve its operations and enhance its value.

### **6690 – 6700 Special Topics**

3 credit hours

Students examine current or emerging and innovative topics related to the co-operative business model. The topics may be of a cross-functional or multidisciplinary nature, and the courses provide a balance between theory and application. The courses may be repeated for credit when topics vary.

# Master of Technology Entrepreneurship and Innovation

Program Director	D. Jutla
Program Faculty	C. de Fuentes, E. Farrell, D. Jutla, C. Loughlin, R. Venkat
Part-time Faculty	E. Crowell
Adjunct Professor	L. Beaubien
Program Manager	C. Hamblin

The Master of Technology Entrepreneurship and Innovation (MTEI) program is a graduate professional program intended to develop professional, nimble, and investable T-shaped technology entrepreneurs and innovators. The program takes interdisciplinary knowledge and skills from a synthesis of information technology, management, marketing and sales, leadership, finance, accounting, communications, and economics disciplines, and integrates these with best practices from industry to produce an innovative and unique learning environment. The principles from the lean entrepreneurship movement are interwoven through the MTEI program's courses.

Features of the program include:

- Stimulating, innovative, and cross-disciplinary classes with rigorous graduate-level standards.
- Classes meet on alternating weeks on Fridays and Saturdays for 8 months. Students complete 8 courses in 8 months.
- After the completion of 8 required courses, students take ONE of THREE options (Internship, Project, or Thesis). Options provide flexibility for meeting students' goals.
- The Internship Option is 8-months in duration, the Project Option can be completed in 8 months, and the thesis option may take from one year to 16 months to complete.
- Technical and business experiences and practical backgrounds of participants will be further developed.

## Admission Requirements

The MTEI follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar with the following additional requirements and procedures.

The MTEI Admissions Committee will consider an applicant's prior academic record, military or work experience, extracurricular activities, recommendation forms, and the written application. While each of these general criteria is important, the applicant's entire profile will be evaluated, where significant strengths in one area may help compensate for weaknesses in another.

Academic records will be evaluated as evidence of academic grade; however, the Admissions Committee will also look for personal qualities, such as accomplishments, and leadership and motivation, which are important for success as an innovator and entrepreneur.

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 MTEI program will:

1. Have completed an undergraduate degree or have an equivalent combination of training and experience.

N.B. The MTEI student's undergraduate degree can be in any discipline, although an undergraduate degree in a technology-related discipline is preferred. This open requirement allows us to accept students who have the ability to partner with technologists for increasing innovation and entrepreneurial capability and capacity.

2. Have an undergraduate degree with at least a "B" average and attained a minimum grade point average (GPA) of at least a 3.0 out of 4.3 in the candidate's final sixty (60) credit hours taken at university. In exceptional circumstances, when an applicant is otherwise qualified, the admissions committee may waive this requirement.
3. Submit official transcripts from post-secondary institutions directly to the Faculty of Graduate Studies and Research at Saint Mary's University.
4. Submit a one-page description of how and what the student expects to learn in the MTEI program will be of benefit to her/him and/or to her/his organization.
5. Submit an up-to-date curriculum vitae.
6. Have English as a first language, or completed a first degree entirely in English, or attained a minimum score of 92 (Internet based) on the Test of English as a Foreign Language (TOEFL) with no individual band below 20 or a minimum score of 7 on the International English Language Testing System (IELTS) with no individual score below 6.5, or equivalent.
7. Complete the appropriate application form and submit an application fee as specified by the Faculty of Graduate Studies.
8. Submit three recommendation forms, with at least one being from an academic referee.
9. Agree to a telephone or Skype interview.

Applications to the MTEI program should be made as early as possible. The application deadline for international students is April 1 and for domestic students it is June 30<sup>th</sup>. Application information is available on the Internet at <http://www.smu.ca/academics/apply-to-grad-studies.html>.

An MTEI student who is dismissed for academic reasons or voluntarily withdraws may, after the lapse of one calendar year, seek re-admission by submitting a new application to the Faculty of Graduate Studies and Research. The application for re-admission shall be evaluated by the MTEI Program Council (and not the Admissions Committee alone). The Program Council may recommend re-admission to the FGSR subject to stipulated conditions.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships. Applications for teaching assistantships should be made to individual academic departments (see Section 4 for additional information). Applications for funding support are due April 1.

### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

See the FGSR Program Requirements in Section 2 of the Graduate Studies Academic Calendar and below.

The program offers 8 consecutive (24 credit hours) over an 8-month period from September to April, which includes 8-week semesters. This will be followed by 6 credit hours taken from either (1) applied business development project (Project Option) OR (2) a technology-based thesis (Thesis Option), OR (3) an 8-month internship (Internship Option). All the 8 courses are required and there are no options for course substitutions (i.e. a lock-step program).

### Curriculum

#### First Eight Months: Required Courses

MTEI 5510	Entrepreneurial Finance
MTEI 5520	Technology Entrepreneurship
MTEI 5530	Innovation Processes and Management
MTEI 5540	Entrepreneurial Marketing
MTEI 5550	Leading Technology Innovation and Change
MTEI 5560	Technology Strategy and Productivity
MTEI 5570	Accounting for Innovation
MTEI 5580	Globalization and Innovation Systems

#### Project Option

The applied business development project option leverages the practice of the business and/or technology profession. Students choosing this option will be required to take 6 credit hours from the following courses: MTEI5585: Applied Project: Investor-Ready Business Plan and MTEI5586: Applied Project: Launching and Growing.

#### Internship Option

Students will benefit from immersion at entrepreneurial and innovative organizations through further industry exposure and opportunities for experiential learning. Internship students will need to write and submit a report of their internship activities and measured achievements one month before the end of their internship. An academic supervisor will assess whether the scope of the reported work is sufficient to fulfill the requirements of the degree program.

#### Thesis Option

The thesis option will enable students to acquire enhanced research skills that will prepare them to carry out independent research in their future careers. Students will research and write a thesis that is in an area of technology entrepreneurship and innovation. A topic is eligible for development into an MTEI thesis if it identifies a complex problem(s) relevant to a technology discipline or a business discipline, related to technology entrepreneurship and innovation, and is completed under the supervision of an approved faculty member.

## Graduate Courses (MTEI)

### 5510: Entrepreneurial Finance

3 credit hours

This course is designed to inform founders, policy makers, support organizations, and key new-venture team members about key elements of new venture finance, while adopting a special focus on cash flows and private equity, from inception to IPO or acquisition. Topics include sources of capital (such as venture capital); business angels; CPCs and public fund raising activities; valuation; deal structuring; term sheets; issues related to management compensation; and types of harvest and their consequences for the new venture team and investors.

### 5520: Technology Entrepreneurship

3 credit hours

Students examine the design of business models, frameworks for platform innovation creation, and lifecycles in complex multi-sided markets. Topics include: lean entrepreneurship, hypothesis testing, minimum viable product, customer validation, pivoting, prototype development, patterns in platform creation, marketing and growth, control issues, and evolution concepts.

### 5530: Innovation Processes and Management

3 credit hours

Innovation is a complex process requiring an aggregation of knowledge, a variety of technologies and competences. Guiding this process is the main challenge to fostering and benefiting from innovation. This course focuses on guiding the innovation process, especially when seeking to manage and benefit from innovation in uncertain environments. The course combines theory of innovation management, including business models for innovation, with an introduction to innovation management tools.

### 5540: Entrepreneurial Marketing

3 credit hours

Students will consider marketing strategies for entrepreneurial and early stage firms. Topics usually include: (1) value creation and product development, (2) customer selection, (3) brand development and positioning, (4) capturing value through pricing, (5) go-to-market strategies and (6) customer profitability, lifetime value and marketing metrics. Successful entrepreneurs will be invited as guest speakers. The course requires applied learning through cases, simulations and hands-on projects in entrepreneurial settings.

**5550: Leading Technology Innovation and Change**

3 credit hours

Ironically, many of the skills required to lead innovation (e.g., associating, questioning, observing, networking) run counter to highly valued skills in tech industries (e.g., subject matter expertise, problem solving ability, singular pursuit of excellence). Students will question traditional models of leadership and power and discuss some 'fatal flaws' that leaders must avoid to excel in this area.

**5560: Technology Strategy and Productivity**

3 credit hours

Students examine the models and frameworks to rapidly create and align a technology strategy for innovative products and organizations. Students assess technology strategy maps with respect to state-of-the-art technologies. Topics include trendspotting, implication of events in technology fields, alliances, and increasing productivity in organizations.

**5570: Accounting for Innovation**

3 credit hours

Students examine management planning and control and reporting systems in the entrepreneurial organization. Emphasis is on processes and techniques of performance analysis in the technology and innovation context, leading to improved management decision-making. Some topics may include; variance analysis, capital structures and governance and analysis metrics. Integrative problem solving and case-analysis are emphasized at both group and individual levels.

**5580: Globalization and Innovation Systems**

3 credit hours

Global innovation networks are rapidly changing to include developed and developing countries. Understanding innovation systems and the dynamics of establishing global innovation networks is key for tapping into new forms of knowledge production and exploitation. Students will focus on how firms connect with local and global networks, and how firms can engage in global value chains.

**5585: - Applied Project – Investor-Ready Business Plan**

3 credit hours

**5586: - Applied Project - Launching and Growing**

3 credit hours

**5590: - Graduate Internship**

6 credit hours

**5591: - Master's Thesis**

6 credit hours

## Doctor of Philosophy in Business Administration (Management)

---

Program Director      A. J. Mills, Management

The Ph.D. program focuses on the area of management, which broadly encompasses the traditional areas of Organizational Behaviour, Organizational Development, Organizational Theory, Human Resources, Industrial/Labour Relations, Strategic Management and Entrepreneurship.

The program is designed to be completed in 48 months. Coursework and comprehensive exams must be completed within 28 months of enrolment. The length of time spent on the dissertation phase will vary according to the nature of the research involved, but should not exceed 48 months following completion of the comprehensive exams.

### Admissions

The PhD program follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar with the following additional requirements and procedures.

Decisions regarding admission to the doctoral program will be made on the basis of the applicant's academic qualifications and achievements, fit with the program's areas of specialization and the availability of an appropriate supervisor. To that end, all of the following will be taken into account:

**Qualifications:** Students entering the doctoral program must have a Masters degree from a recognized university. Normal minimum requirements for admission are a grade point average of 3.6 on a 4.0 scale (high B+ to A-) and GMAT (or GRE) above 600.

**Business studies:** At least a minimum breadth in business studies (or other cognate discipline) is expected. Ideally, applicants should have an undergraduate and/or Masters degree, which includes a substantial business studies element (e.g., a Bachelor of Commerce, Masters of Business Administration). Students without previous degrees in management education may be admitted as "qualifying" students but could be required to undertake selected management in addition to the normal requirements of the Ph.D. program.

**Personal Statement:** At the time of application, prospective students should submit a personal statement (Maximum 4 pages), including:

- Potential research interests
- Proposed supervisor
- Relevant research, volunteer, and work experience
- Career objectives and long-range goals
- Academic honours, awards, and/or scholarships.
- A list of publications, conference papers, and/or technical reports
- University committee work

Any other information that is relevant to your application.

**Recommendation Forms:** All applicants are required to submit three recommendations forms from persons capable

of assessing the candidate's academic ability and research potential.

**Career Objectives:** A statement of career objectives is required.

**English:** Applicants who were not educated in English are required to submit official scores on the CanTest, Test of English as a Foreign Language (TOEFL), or recognized equivalent test of written and oral English language proficiency. Normal minimum requirements are TOEFL internet-based (iBT): A minimum score of 100 overall with at least 22 in Writing; 21 in Reading, 27 in Speaking, 20 in Listening. The minimum score on the paper-based TOEFL is 600.

### Advisor/Supervisor

In admitting students to the program, the Ph.D. Program Council will take into account the availability of potential dissertation supervisors. Once accepted into the program, students in consultation with the Ph.D. Program Coordinator will be designated an advisor who will assist in the development of the student's dissertation topic. The assignment of an advisor will occur no later than the successful completion of the student's comprehensive examination. The advisor will be appointed on the basis of his or her expertise in relation to the student's dissertation. Where a student in the program has identified an appropriate supervisor, every effort will be made to ensure that he or she is appointed as the advisor/supervisor.

**Note:** The Ph.D. Advisor/Supervisor should normally be a tenured faculty member at Saint Mary's University or other post-secondary institution in Atlantic Canada. In the latter case, such faculty must be recommended by the Faculty of Graduate Studies and Research as Adjunct Professors at Saint Mary's University.

These are the normal minimum requirements, but each case will be evaluated on its own merits. However, applicants will not be evaluated for admittance where any of the required elements have not been submitted at the time when the application is being considered.

The deadline for applications is February 1<sup>st</sup> for admission on May 1<sup>st</sup> of the same year. Successful applicants will normally be notified by March 1<sup>st</sup>.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships. A limited number of fellowships are available to students who are not in full-time paid employment. Request for a fellowship should be made at the time of application.

## Program Requirements

The program comprises three inter-related elements: coursework, comprehensive examinations and dissertation.

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

### Courses

The courses are divided into the foundation courses and the functional core.

#### Foundation Courses

MGMT 7701	Management Thought and the Management Environment
MGMT 7702	The Nature of Management Research
MGMT 7703	Qualitative Research Methods
MGMT 7704	Quantitative Research Methods
MGMT 7705	Multivariate Statistics for Management Research (offered as a distance course)

#### Functional Core

MGMT 7710	Doctoral Seminar in Human Resource Management
MGMT 7720	Doctoral Seminar in Organizational Theory and Design
MGMT 7730	Directed Readings in Management I

Most courses comprising the Ph.D. program (excluding the comprehensive exams and the dissertation) are offered in the first four semesters of enrolment. That is, students complete 3 courses in the first summer, one distance course in each of the fall and winter semesters and 3 courses in the second summer of the program.

Normally the standard pattern of course offerings is:

1 <sup>st</sup> semester	MGMT 7701, 7702, 7710
2 <sup>nd</sup> semester	MGMT 7730 or 7705
3 <sup>rd</sup> semester	MGMT 7730 or 7705
4 <sup>th</sup> semester	MGMT 7703, 7704, 7720

The scheduling of the distance courses may vary.

### Comprehensive Examinations

On completion of all coursework requirements, and no later than 28 months after admittance to the program, each student must complete a set of comprehensive examinations. Both examinations must be completed in the same semester. Students may undertake the comprehensive examinations in any semester following the completion of all Foundation and Functional courses.

These comprehensive examinations will take the form of a set of written examinations, set by the Comprehensive Examining Committee. The Examining Committee reserves the right to require an oral examination subsequent to the written portion of the exam. Normally, students will be permitted two attempts at the comprehensives. Successful

completion of the comprehensives will move the student to the status of "Ph.D. Candidate".

The purpose of the two comprehensive examinations is to verify that the student possesses both breadth and depth of knowledge in the areas defined by the Functional and Foundation courses described above.

### Dissertation

The dissertation requirement is for the successful defense of an original doctoral thesis worthy of publication in reputable academic journals, defended orally before authorities in the discipline, appointed by the Faculty of Graduate Studies and Research. The oral defense will be public. The thesis defense must take place within 48 months of successful completion of the comprehensive examinations.

### Residency and Method of Delivery

Students are required to fulfill the equivalent of two semesters of full-time residency. Normally, these semesters will be in the spring/summer period and are composed of intensive classes that run from the beginning of May to the end of June. The months of July and August are devoted to research projects, including the writing of major papers.

The scheduling of required classes during the period of May-June is designed to make the program more accessible to non-traditional doctoral students.

## Graduate Courses (MGMT)

### 7701 Management Thought and the Management Environment

3 credit hours

This course focuses on the development of management thought, the factors that shaped the various schools of thought, and the central debates around issues of ontology, epistemology, and methodology. The course is designed to achieve four objectives:

- (i) a working, in-depth knowledge of a range of management paradigms and their relationship to research methods;
- (ii) an understanding of the relationship between theory, practice and social context;
- (iii) a critical appreciation of the relationship between theory, context and organizational outcomes; and
- (iv) a forum for reflecting on and developing research proposals.

### 7702 The Nature of Management Research

3 credit hours

This course comprises an introductory survey of research methods commonly used in management/HR research. Typical topics include framing a research question, research ethics, and both qualitative and quantitative research methodologies.

### 7703 Qualitative Research Methods

3 credit hours

This course is designed to introduce students to various approaches to qualitative data collection, description, analysis and interpretation. Students will be exposed to a variety of methods including observation, interviews and textual analysis. Generic issues to be discussed will include conducting and presenting qualitative research, performing

## **100 Ph.D. in Business Administration (Management)**

---

convincing data analysis, evaluating the findings of, and developing theory from, qualitative research studies.

### **7704 Quantitative Research Methods**

3 credit hours

This course focuses on quantitative research methods as used in human resources/organizational behavior research. Typical topics include survey methodology, experimental and quasi-experimental design, longitudinal methods, unobtrusive measures, meta-analysis and psychometric theory.

### **7705 Multivariate Statistics for Management Research**

3 credit hours

This is a required distance learning course. Students review multivariate statistical methods commonly used in human resource management. Topics considered include regression models and alternatives to OLS regression, MANOVA and related models, cluster and multidimensional scaling analyses and structural equation modeling.

### **7710 Doctoral Seminar in Human Resource Management**

3 credit hours

This course comprises a detailed consideration of topics in the current human resource management research literature. The course considers both the technical and strategic research literatures in human resource management.

### **7720 Doctoral Seminar in Organizational Theory and Design**

3 credit hours

This course focuses on the development of theories of organizational structuring and design, the factors that shaped those ideas, and the various schools of thought.

The course is designed to achieve the following objectives:

- (i) in-depth knowledge of classic theories of organization and their implications for modern-day organizational theory and design;
- (ii) a critical understanding of the relationship between industrial development and theories of organization;
- (iii) a detailed knowledge of a range of current issues and debates within organizational theory and design;
- (iv) a thorough understanding of the relationship between organizational theorizing and practice.

### **7730 Directed Readings in Management I**

3 credit hours

This is a directed studies course in which a student undertakes a detailed consideration of an area of management research in consultation with a faculty member.

### **7740 Directed Readings in Management II**

3 credit hours

This is a directed studies course in which a student undertakes a detailed consideration of an area of management research in consultation with a faculty member.

### **8899 Thesis**

6 credit hours

Empirical research conducted under the supervision of an Advisory Committee.

## Graduate Programs: Science

The Faculty of Science offers seven graduate programs in the areas of Astronomy, Applied Psychology, Applied Science and Computing and Data Analytics.

## Graduate Programs in Astronomy

Program Coordinator	R Thacker
Chairperson	M. Sawicki
Observatory Director	D. Lane
Undergraduate Coordinator	L. Gallo
Professors	D. Clarke, L. Gallo, D. Guenther, R. Kanungo, A. Sarty, M. Sawicki, I Short, R. Thacker
Associate Professors	R. Austin
Assistant Professor	A. Wiacek
Adjunct Professor	F. Ames, P. Bennett, S. Chapman, C. Lovekin
Professor Emeriti	R. Deupree, G. Mitchell, D. Turner, G. Welch

Saint Mary's University is the major centre for astronomical and astrophysical research in Atlantic Canada. It offers degree programs leading to the M.Sc. (Astronomy) and to the Ph.D. (Astronomy).

### Admission Requirements

The M.Sc. and Ph.D. in Astronomy programs follow the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar with the following additional requirements and procedures.

All students entering the Astronomy graduate program require a B.Sc. or equivalent, in Astronomy, Mathematics, or Physics. Students with a B.Sc. or equivalent intending to pursue a Ph.D. enter the Astronomy graduate program at the M.Sc. level. Students with an M.Sc. may enter the Astronomy graduate program at the Ph.D. level, and may be given course transfer credits for equivalent Saint Mary's University graduate level astronomy courses taken elsewhere.

Applications to the Astronomy graduate programs can be made at any time of the year. Highest priority for fall admission will be given to applications received by February 1<sup>st</sup> of the preceding winter. Applications may be obtained at <http://www.smu.ca/academics/apply-to-grad-studies.html>. Prospective students who are in doubt about their qualifications should contact the graduate coordinator: [graduate.coordinator@ap.smu.ca](mailto:graduate.coordinator@ap.smu.ca).

Students may apply for full-time or part-time status. Under special circumstances and subject to department approval, new or existing students may enrol in the program on a part-time basis. Admission and degree requirements for part-time students are the same as for full-time students, but part-time students are not guaranteed full financial support.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

## Master of Science (Astronomy)

### Overview

The Master Program offers both a thesis and a no-thesis option, and is normally of two years duration.

Before starting the second year of study, a student may apply to enter the PhD in Astronomy Program. Applications will be subject to approval by the Department and the Dean of the FGSR. If approved, the student does not take the M.Sc. thesis course, and no M.Sc. degree is conferred. On the start of the second year, the student would enter the first year of the Ph.D. program.

### Admission requirements

The M.Sc. in Astronomy programs follow the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar.

In addition, a B.Sc. (HONS) or equivalent in Astronomy, Physics or a related field, with a Grade Point Average (GPA) of 3.00 (B) or higher out of 4.3 is normally required for admission into the program.

### Program Requirements

Students take thirty-six (36) credit hours, eighteen (18) credit hours per year for full-time students. For credit towards the degree, a student must attain a course grade of B- (2.67 GP) or better. A student must attain a GPA, excluding Graduate Seminar I, Research Project I and Research Project II courses, of at least 3.00 (B) in the first year of course work to continue into the second year of study. A student's GPA over all courses satisfying degree requirements must be at least 3.00 (B) to be eligible for graduation.

### Thesis Option

**Note: Students not registered in any course work but working on their thesis must register in Program**

### **Continuation (FGSR9000) for every semester (including summer) in which they are in their graduate program.**

Students take ASTR 5900 (Graduate Seminar I, three (3) credit hours) during their first year and ASTR 6900 (Graduate Seminar II, three (3) credit hours) during their second year. Students complete ASTR 5980 (Research Project I, three (3) credit hours) and ASTR 5981 (Research Project II, three (3) credit hours) normally by the end of the first year. They may be taken together in the same semester. Students must take ASTR 6990 (Thesis, six (6) credit hours) in their second year. Students must take at least four (twelve (12) credit hours) of the six core courses listed below, and two other courses, (six(6) credit hours) drawn from the ASTR courses numbered 5000 and above (but excluding the Research Project, Graduate Seminar and Thesis courses). Graduate level courses in related disciplines, subject to University regulations on transfer credits for off-campus courses and approval of the graduate coordinator and the student's supervisor, may be taken in substitution for the two other courses.

Currently the Core Courses are:

- 5400 Stellar Astrophysics I
- 5410 Introduction to Stellar Atmospheres
- 5420 The Interstellar Medium
- 5500 Galactic Astronomy
- 5510 Extragalactic Astronomy
- 5600 Cosmology

The thesis is prepared under the supervision of a faculty supervisor and consists of original research performed by the student on a topic chosen and defined by the student and faculty supervisor. When complete, the student defends their thesis in front of a Thesis Defense Committee normally scheduled near the end of the second year of study. The M.Sc. defense consists of a brief presentation by the student to the academic community followed by an in camera oral examination with the Thesis Defense Committee.

#### **No-Thesis Option**

Students pursuing this option may not be eligible for financial support.

Students take ASTR 5900 and 6900 (Graduate Seminar I and II, six (6) credit hours), all six core courses (eighteen (18) credit hours) and four courses (twelve (12) credit hours) drawn from ASTR courses numbered 5000 or above (excluding thesis courses), or graduate level courses in related disciplines, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor.

## **Doctor of Philosophy (Astronomy)**

### **Overview**

The Ph.D. program is a four year program including dissertation research.

### **Admission Requirements**

The Ph.D. in Astronomy program follows the general admission requirements and procedures of the Faculty of

Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar.

In addition, students applying for admission into the astronomy Ph.D. program are normally required to have an M.Sc., or equivalent in Astronomy, Physics, or related field. Students, who do not yet have an M.Sc. degree, are required to enter the astronomy M.Sc. program first and then reapply for admission to the Ph.D. program when they have completed their M.Sc. degree. Optionally, before starting the second year of the M.Sc. degree, a student may apply to enter the PhD in Astronomy Program. Applications will be subject to approval by the Department and the Dean of the FGSR. If approved, the student does not take the M.Sc. thesis course, and no M.Sc. degree is conferred. On the start of the second year, the student would enter the first year of the Ph.D. program. Students whose first language is not English, and who have not attended English language secondary school, or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests. Normal minimum requirements are TOEFL internet-based (iBT) score of minimum 100, with no individual band below 20; or an IELTS score of minimum 7.0, with no individual score below 6.5.

### **Program Requirements**

Students take a total of twenty-four (24) credit hours of courses. Students must take six core courses (18 credit hours) and two courses (6 credit hours) drawn from ASTR courses numbered 5000 and above (excluding Research Projects, Graduate Seminars, and thesis courses), or graduate level courses in astronomy or related disciplines, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor.

All ASTR courses taken by students toward the M.Sc. degree at Saint Mary's (excluding Research Project, Graduate Seminar, and thesis courses) count towards Ph.D. course requirements. Students who have completed M.Sc. programs elsewhere may transfer courses taken at their former institution, subject to University regulations on transfer credits for off-campus courses and approval of the student's supervisor.

Under special circumstances, upon approval by the graduate coordinator and the student's supervisor, a non-core course may be substituted for a core course. Students wishing to take and receive credit for more than twenty-four (24) credit hours of graduate courses must obtain prior approval from the graduate coordinator and their supervisor.

Students also attend the Graduate Seminar courses (taken by M.Sc. students as ASTR 5900 and 6900) every year they are enrolled in the program. The Graduate Seminar courses are normally led by the senior Ph.D. students.

For credit towards the degree, a student must attain a course grade of B- (2.67 GP) or better. A student's GPA over all courses satisfying degree requirements must be at least 3.00 (B) out of 4.3 to be eligible for graduation.

Students are required to pass a comprehensive exam and a dissertation proposal defense exam. Students are given a maximum of two attempts to pass each examination. Students who complete the M.Sc. program at Saint Mary's University before commencing the Ph.D. program are encouraged to take the comprehensive exam and the dissertation proposal defense exam before commencing the Ph.D. during the second year of their M.Sc. program. Both exams must be completed by the end of the second year of the Ph.D. program.

The purpose of the defense of the dissertation proposal is to ensure the student is ready to commence the dissertation phase of their Ph.D. program. The student should demonstrate a clear understanding of a credible proposal for original research and have sufficient knowledge of the background material to begin the research. The student must submit a written dissertation proposal (normally not to exceed ten pages, single sided, double spaced) and present it to their Exam Committee at least three weeks prior to the defense of dissertation proposal exam. Committee approval of the proposal is required before a student is permitted to pursue their dissertation research.

The purpose of the comprehensive exam is to determine if the student has an acceptable level of understanding of general astronomy, physics, and astrophysics at the undergraduate astronomy major level and a graduate level understanding of fields related to the proposed thesis research.

Once a student enters the dissertation phase of their research, they are required to meet with their Supervisory Committee at least once a year to have their progress assessed.

**Students enrol in AST 8990 the first year after approval of their dissertation proposal and in FGSR 9000 every year thereafter.**

When the dissertation is complete, students defend their dissertation before their Dissertation Defence Committee, near the end of the student's program of study.

### **Voluntary Withdrawal**

A student who wishes to withdraw from the Ph.D. program, who has not completed an M.Sc. program in Astronomy, may apply to the Department to use their progress to date towards the M.Sc. degree. If there are insufficient credits for the M.Sc. degree, the student may elect to transfer to the M.Sc. program to complete those requirements, provided notification is provided in writing to the graduate coordinator and approval is granted by the Department and the FGSR. Financial support for students who transfer from the Ph.D. program to the M.Sc. program is not guaranteed.

## **Graduate Courses (ASTR)**

Graduate course offerings consist of formal lecture courses, six of which are designated as "core courses" (and indicated below with asterisks), research courses including Master's Thesis and Ph.D. Dissertation, and seminars such as "Journal Club".

### **5200 Astronomical Instruments and Techniques**

3 credit hours

Methods of collecting and interpreting electromagnetic information from the cosmos are examined. Topics include astronomical telescopes and optics, detector technology, observing techniques used in modern observational astronomy and an overview of statistics, particularly as applied to the detection of electromagnetic radiation. Hands-on projects will include astronomical observing and data reduction. The course may include a field trip to an observatory.

### **5210 Computational Methods**

3 credit hours

This course introduces students to the details of computational numerical approaches used for solving theoretical problems in astrophysical research. The methods covered are those that students can expect to use for computationally-oriented modeling in theoretical astrophysics. Students should expect to obtain extensive "hands-on" experience and must be able to program in one or more scientific computing languages (preferably FORTRAN or C). Specific approaches discussed include Monte Carlo, finite element, finite difference, and smoothed particle hydrodynamics.

### **5220 Data Analysis in Astronomy**

3 credit hours

The goal of this course is to instruct the student in the analysis of real astronomical data. Following a general introduction to errors and data reduction, the bulk of the course will consist of the use of computers in data reduction. Student projects will include the analysis of images and spectral line maps.

### **5300 Solar System Astronomy**

3 credit hours

Prerequisite: graduate standing or permission of the instructor.

Topics covered include fundamental data for planets and satellites, orbital mechanics, rocks and minerals, age dating of rocks by radioactive decay, meteorites and tektites, comets, asteroids, and remote sensing techniques, cosmogony and the early history of the solar system, planetary and satellite interiors, surfaces and atmospheres, and comparative planetology.

### **\*5400 Stellar Astrophysics I**

3 credit hours

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.

### **\*5410 Stellar Atmospheres and Spectra**

3 credit hours

Prerequisite: graduating standing.

The astrophysics necessary for modeling the structure and spectra of equilibrium gaseous structures, such as stellar and planetary atmospheres are introduced. Topics may include radiative transfer, statistical mechanics, atomic processes

and opacity, structure equations and their solutions, atomic line profiles, and the application of modeling to the determination of stellar parameters and chemical composition.

**\*5420 The Interstellar Medium**

3 credit hours

Topics covered include: the phases of the interstellar medium, neutral clouds, ionized hydrogen regions, interstellar molecules, dust grains, shocks, gravitational collapse, bipolar outflows, and accretion disks.

**5430 Binary and Variable Stars**

3 credit hours

This course is devoted to the study of both binary stars and variable stars. Topics covered under binary stars include: fundamentals of orbital motion and the properties of binary star systems, analytical and practical techniques for studying visual, astrometric, spectroscopic, and eclipsing binaries, the mass-luminosity relation, and classification of close binaries by Roche-lobe filling. Topics covered under variable stars include: light curves and variable star classification, eclipsing variables, pulsating variables and pulsation theory, rotating variables, unique types, and the link between variability and stellar evolutionary stages.

**\*5500 Galactic Astronomy**

3 credit hours

This course describes the contents and structure of the Milky Way Galaxy. Topics covered include: historical highlights, reference frames and stellar astronomy, spectral classification, photometric systems, luminosity calibrations, clusters and associations, star counts and stellar density functions, the luminosity function, chemical composition variations in the Galaxy, solar motion, statistical and secular parallaxes, kinematic groups, galactic rotation and structure, spiral arms, and an introduction to galactic dynamics.

**\*5510 Extragalactic Astronomy**

3 credit hours

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.

**5520 Clusters of Galaxies**

3 credit hours

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.

**\*5600 Cosmology**

3 credit hours

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.

**5700 Magnetohydrodynamics**

3 credit hours

An introduction to astrophysical fluids and plasmas. Topics covered include the Boltzmann and moment equations, the Navier-Stokes equations, turbulence, gas dynamics, the Vlasov Equation, and BBGKY hierarchy, basic magnetohydrodynamics, magnetic reconnection and dynamo theory, acoustic and Alfvén waves, instabilities, and shocks. Applications to astrophysical phenomena such as stellar winds, solar and stellar activity cycles, accretion, and jets are discussed.

**5710 Astrophysical Dynamics**

3 credit hours

Topics covered include: the dynamics of the solar system, the origin and evolution of planetary systems, the dynamics and evolution of star clusters, structure and dynamics of our Galaxy, the theory of spiral structure, and the formation and dynamical evolution of galaxies. The course includes an introduction to the dynamical modelling of planetary systems, star clusters, and galaxies.

**5900 Graduate Seminar I**

3 credit hours

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 1 1/2 hrs. a week. 2 semesters.

**5980 Research Project I**

3 credit hours

Prerequisite: graduating standing.

This course prepares students in the M.Sc. Astronomy program for basic scientific research. Students will normally complete background readings from the current literature and undertake preparatory training in research methods.

**5981 Research Project II**

3 credit hours

This course introduces students in the M.Sc. Astronomy program to the basic principles and techniques of research. Students will be introduced to a research project, normally, but not necessarily, related to their thesis topic.

**6400 Stellar Astrophysics II**

3 credit hours

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.

**6800-6809 Selected Topics in Astronomy and Astrophysics**

3 credit hours

One or more selected specialty areas in astronomy will be examined in greater detail than is possible within the broader scope of other courses. Topics will be chosen by the Department and made available to interested students prior to registration.

Seminar 3 hrs. a week.

**6810-6819 Directed Readings in Current Literature**

3 credit hours

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.

**6900 Graduate Seminar II**

3 credit hours

A continuation of ASTR 5695 normally taken by graduate students in the second year of the Master of Science program.

Seminar 1 1/2 hrs. a week. 2 semesters.

**6990 M.Sc. Thesis**

6 credit hours

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.

**8990 Doctoral Dissertation**

6 credit hours

The dissertation consists of an original research topic in astronomy undertaken by the student and prepared as a formal written treatment of their research, which is then defended publicly. The course is normally taken during the third through fifth years of enrolment in the doctoral program after successful completion of the Ph.D. written comprehensive examination and approval of the dissertation proposal. The research is conducted under the supervision of a faculty member. Registration must be approved by a Chair or Supervisor prior to registration and in writing.

# Master of Science in Computing and Data Analytics

Program Coordinator P. Lingras  
 Program Faculty Y. Akiyama, L. Corrigan, P. Dixon, D. Jutla, S. Konstantinidis, P. Lingras, P. Muir, S. Oore, H. Wang, M. Zhang  
 Part-time Faculty K. Bain, S. Chatterjee, D. Penny, P. Renaud, P. Sisk, C. West, A. Valencik, M Yang  
 Program Manager Keith Bain

The Master of Science in Computing and Data Analytics (M.Sc. CDA) program is a graduate-level, professional program available to both full-time and part-time students. The program is founded on established principles of mathematics and computing science for industry and business analytics. It combines two essential aspects of computing and data analytics: (i) hardware and software platform design, development, customization, and management; and (ii) Analytics, business intelligence and knowledge discovery: the acquisition, storage, management, and analysis of large amounts of data to improve efficiency, innovation and decision making. It is an interdisciplinary applied program built on a solid foundation gained through a Bachelor of Science in Computing Science (or equivalent). The Program offers individuals the unique opportunity to gain a deeper technical skill set and a broader understanding of current and future trends in business and information technology (IT). The principles of business and industry practices are interwoven throughout the program. Further details are listed in the Curriculum Section that follows.

The M.Sc. CDA is a rigorous graduate-level program that features innovative cross-disciplinary classes taught in a stimulating environment with opportunities for interaction with industry practitioners. The option of Internships, Projects, or Thesis elements following completion of the required courses provides flexibility in meeting students' goals. Under special circumstances with the permission of the Program Coordinator, students may combine internship and project options.

## Project Management Training

Project management is an important component of the program. Students will have informal exposure to elements of project management in the first two semesters, which will be supplemented with formal instructions in project management during the completion of one of the three options: project, internship, or thesis. The project training will include seminars on project management from leading experts. The students will use these more formal principles of project management in one of the three options: project, internship, or thesis.

## Admission Requirements

The minimum Admission Requirements 1.a through 1.e (inclusive) as listed in the Academic Regulations section of this Faculty of Graduate Studies and Research (FGSR)

Academic Calendar apply, with the following additional requirements:

1. a four-year Bachelor of Science in Computing Science degree (or equivalent) with a minimum cumulative GPA of 3.0 out of 4.3 (B).
2. a minimum score of 70% on a programming test\* administered by Saint Mary's University;

## Procedure for Admission

Potential students who meet the minimum FGSR admission requirements and the M.Sc. CDA additional requirements as listed above are invited to apply according to the Procedure for Admission as listed in the Academic Regulations section 2 of this FGSR Academic Calendar, plus additional procedures as outlined below. A complete application includes:

1. a completed online application including the application fee: <http://www.smu.ca/academics/apply-to-grad-studies.html>
2. a personal statement that includes a description of the applicant's expectations of the program and how this program would benefit the applicant. Applicants are encouraged to describe any qualities, accomplishments, or motivation they possess which they deem are important for success as a computing and data analytics professional.
3. official transcripts for all universities and colleges attended;
4. a curriculum vitae;
5. three completed Recommendation Forms sent directly from referees (at least one from an academic referee).
6. agreement of the applicant to a telephone, in person or online interview.

Only complete applications will be considered. It is the responsibility of the applicant to ensure that their application is complete. Application deadline is April 1 for International applicants and June 1 for Canadian applicants.

## Program Requirements and Curriculum

Students must comply with the FGSR Program Requirements in Section 2 of the FGSR Academic Calendar. For a M.Sc. CDA, students must complete the following:

### Twenty-four (24) credit hours in consecutive\* required courses over the first eight months:

MCDA 5510	Software Development in Business Environment
MCDA 5520	Statistics and Its Applications in Business
MCDA 5530	Human Computer Interaction
MCDA 5540	Managing and Programming Databases
MCDA 5550	Web, Mobile, and Cloud Application Development
MCDA 5560	Business Intelligence
MCDA 5570	Managing Information Technology and Systems

MCDA 5580 Data Mining

**Six (6) credit hours taken from:**

**Project Option**

MCDA 5585 Master's Project – System and Functional Analysis  
 MCDA 5586 Master's Project – Implementation and Analysis of Results

OR

**Thesis Option**

MCDA 5591 Master's Thesis

OR

**Internship Option**

MCDA 5587 Graduate Internship I  
 MCDA 5588 Graduate Internship II

Project Option

The project option will be flexible enough to allow students to address one or two major computing and data analytics problems. Typically, the project will be divided into three stages: proposal, prototype, and final product. Students will present their work from each stage in front of a supervisory committee consisting of the project supervisor and two other faculty members from the program. The program will draw from local industry professionals for project supervision. Project leaders from local software and data analytics organizations will be invited to co-supervise projects along with faculty members from the program. Faculty members will help ensure the academic requirements of the project are met, while industry professionals will help with the practical and applied aspects of the project work. Students can complete a new project within the context of their existing employment that implements principles of computing and data analytics as a part of the project option. Such a project must satisfy requirements of the two project courses MCDA5585 and MCDA5586.

Internship Option

Students will benefit from immersion at Computing and Data Analytics organizations through further industry exposure and opportunities for experiential learning. Each student will have an academic supervisor and an onsite supervisor. The program/university will award the final grade of pass or fail to ensure a consistent evaluation mechanism. Internship students will need to write and submit a report of their internship activities and measured achievements one month before the end of their internship. An academic supervisor will use the onsite supervisor's feedback and student's report to assess whether the scope of the reported work is sufficient to fulfill the requirements of the degree program. Students cannot use their existing employment as an internship option. They can complete a new project within the context of their existing employment to satisfy the requirements of the project option (please see project option for more details).

Thesis Option

The thesis option will enable students to acquire enhanced research skills that will prepare them to carry out independent research in their future careers. Students will research and write a thesis that is in an area of computing

with a particular focus on data analytics. A topic is eligible for development into a M.Sc. CDA thesis if it identifies a complex problem(s) relevant to computing and data analytics, and is completed under the supervision of an approved faculty member.

## Course Descriptions

**5510: Software Development in Business Environment**  
 3 credit hours

Students study the complete software development process in a business environment, including the system analysis, design, implementation, and testing of software systems. Students will work in teams to develop software systems for business applications using real world methodologies.

**5520: Statistics and Its Applications in Business**  
 3 credit hours

Emphasis in this course is on developing the conceptual foundations and an in-depth understanding of statistical techniques used in data analytics. Following the descriptive/predictive/prescriptive framework that is commonly imposed on topics in analytics, it emphasizes the analysis and solution of complex business decision problems using computer-based models..

**5530: Human Computer Interaction**  
 3 credit hours

The objective of this course is to teach students how to design, prototype, and evaluate user interfaces using a variety of methods. Topics covered include human capabilities; interface technology; interface design methods; interface evaluation; and visualization methods for data analytics.

**5540: Managing and Programming Databases**  
 3 credit hours

Students examine the design, implementation, and management of database (db) systems. Students consider the implications of data structures and indexing on performance; query processing algorithms and optimization; and concurrency control. In addition to relational db models. Students study data models intended to manage alternative types of data such as structured text, multimedia data, and unstructured ones in the context of Big Data.

**5550: Web, Mobile, and Cloud Application Development**  
 3 credit hours

Students develop applications that are accessible through the internet on a variety of platforms including cloud environments and mobile devices. An emphasis is placed on designing and deploying mobile applications; push technology; data structures and memory management; interface design; Scalable Vector Graphics (SVG); cloud computing; and privacy/security.

**5560: Business Intelligence**  
 3 credit hours

Students use tools and techniques for customer and product profiling using classification and clustering, analysis of demographic information for business decision making,

and supply and demand management using predictive models. Professional business intelligence software is used with real-world data sets to effectively analyze statistical patterns for strategic decision making.

**5570: Managing Information Technology and Systems**

3 credit hours

Students are provided with processes, models, and frameworks to develop organizational IT strategy in the context of big data. It focuses on leading software and hardware platforms, business software applications and their strategy maps (CRM, ERP, supply chain management, product lifecycle management. Technology adoption, emerging technologies, and diffusion of innovations are covered..

**5580: Data Mining**

3 credit hours

With the availability of large databases to store, manage and assimilate data, the new thrust of data mining lies at the intersection of db systems, artificial intelligence, and algorithms that efficiently analyze data. Highly complex big data techniques present many interesting computational challenges. Students use concepts from pattern recognition, statistics, data analysis and machine learning.

**5585: Master's Project – System and Functional Analysis**

3 credit hours

This is the first of a two-part series of courses involving the design, development, implementation, and testing of a computing system with focus on data analytics. Depending on the nature of the project students may choose a varying degree of balance between data analytics and system development. Students work in teams to develop a system under supervision of a faculty member. The first phase involves system analysis and development of the graphical interface. The course also includes seminars on project management from academic and industrial faculty members.

**5586: Master's Project – Implementation and Analysis of Results**

3 credit hours

This is the second of a two-part series of courses involving implementation of the complete system, testing, and simulated cut-over to production.

**5587: Graduate Internship I**

3 credit hours

This 16 week internship provides students an experiential learning opportunity through work experience in a Computing and Data Analytics environment. Students apply the concepts learned in the program and are required to submit reports during and at the end of the work term. An employer assessment of student performance will be conducted. The course also includes seminars on project management from academic and industrial faculty members.

**5588: Graduate Internship II**

3 credit hours

This second 16 week internship provides students with experiential learning opportunity through work experience in a Computing and Data Analytics environment. Students apply the concepts learned in the program and are required to submit reports during and at the end of the work term. An employer assessment of student performance will be conducted.

**5591: Master's Thesis**

6 credit hours

This course consists of the student's thesis research project conducted under the guidance of the research thesis Supervisor in conjunction with the other Supervisory Committee members. The student will defend the thesis in front of the Supervisory committee and an external examiner. The thesis defense will be conducted in a public forum.

## Graduate Programs in Psychology

Chairperson	M. Patry
Graduate Coordinator	L. Francis
Undergraduate Coordinator	D. Bourgeois
Professors	V. Catano, M. Fisher, M. Fleming, L. Francis, D. Gilin-Oore, K. Kelloway, R. Konopasky, M. Patry, S. Smith, V. Stinson
Associate Professors	D. Bourgeois, J. Cameron, N. Conrad, C. Holmvall, L. Kocum, J. Ivanoff,
Assistant Professors	L. Closson, N. Roulin, S. Stephens, M. Ternes
Lecturer	S. Carroll
Adjunct Professors	M. Aftenas, W. Darr, D. Fisher, J. Hurrell, D. Lee-Bagglely, M. Norris
Professor Emeritus	J. Chadwick-Jones, K. Hill

### Industrial/Organizational Psychology

The programs in Industrial/Organizational Psychology prepares students to examine and understand the behaviour of individuals and groups in organized environments. Industrial/Organizational psychologists may perform a variety of jobs in industry, business, public service, and the academy. Students in the program are expected to have a solid understanding of quantitative and research methods, and to acquire skills that will help them in the training and selection of personnel, the design of jobs, workplaces and habitats, and the development of social skills and work-team structures.

### Masters of Science in Applied Psychology

The Department of Psychology offers a Master of Science in Applied Psychology in Industrial/Organizational Psychology. Students are admitted with either full-time or part-time status. For definitions of full-time and part-time status, and minimum and maximum times-for-completion of the MSc in Applied Psychology, see FGSR Academic Regulations 8 and 19, respectively, in Section 2 of the Academic Calendar. Normally, part-time students are concurrently employed in an occupation related to Applied Psychology. Students completing Master of Science degree requirements in this area are eligible to apply for registration as a psychologist in Nova Scotia and may pursue careers in public organizations, independent practice, or consulting. They may also continue their graduate education in a Ph.D. program. Further information can be obtained from the Graduate Program Coordinator. Students in this program may also be permitted access to courses and supervisors in the MBA Program.

#### Admission Requirements

The MSc in Applied Psychology follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition, admission to the program requires an honours degree in

Psychology or its equivalent [the equivalent of sixty (60) credit hours in Psychology including an independent research project). Applicants must submit a completed online application form, official transcripts, 3 recommendation forms, and the Graduate Record Exam scores (verbal, quantitative, and analytical) to the Faculty of Graduate Studies and Research by December 15<sup>th</sup>.

Consideration will be given to relevant work, research, and volunteer experience. The admission materials are available from the Faculty of Graduate Studies & Research at <http://www.smu.ca/academics/apply-to-grad-studies.html>. Any application for change in status (i.e., full-time or part-time) must be made in writing directly to the Graduate Program Coordinator. Change in status is not guaranteed and must be approved by the Department.

#### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

The competition for graduate fellowships is adjudicated by the Psychology Department on the basis of GPA, GRE scores, research experience, and recommendation forms. Graduate teaching assistantships are also provided by the Department as remuneration for assisting professors in course and lab instruction.

#### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

Students are required to take the equivalent of twenty-four (24) credit hours, in addition to completing a supervised 500-hour practicum (PSYC 6690) and preparing a thesis (PSYC 6695). The following first year courses are required for all students: PSYC 6601 (Advanced Psychological Statistics) and PSYC 6603 (Advanced Assessment), PSYC 6605 (Personnel Psychology) and PSYC 6625 (Organizational Psychology).

Students must achieve an average of at least B (3.00). A review of students' progress will be undertaken by the Department at the end of the first year of study [eighteen (18) credit hours]. Notwithstanding students' grade point averages, the Department reserves the right to recommend to the Dean that students be dismissed from the program.

Each student must submit a thesis on a topic chosen in consultation with a Thesis Committee, which shall consist of the student's advisor, one other member of the Department, and a third person (either internal or external to the

Department). All external members must be approved by the Department, on the advice of the supervisor. The Thesis Committee is normally formed towards the end of the first year of study for a full-time student or after completion of nine (9) credit hours by a part-time student. Each thesis must be orally defended in front of a Thesis Examining Committee, which consists of the Thesis Advisory Committee, plus an external examiner (who is not a member of the Saint Mary's University Psychology Department and who has not been involved with the thesis).

Courses

- 6601 Advanced Psychological Statistics and Research Design
- 6603 Advanced Assessment
- 6605 Personnel Psychology
- 6610 Applied Multivariate Analysis
- 6615 Training & Development
- 6620 Topics in Engineering Psychology
- 6625 Organizational Psychology
- 6635 Occupational Health Psychology
- 6645 Ethics and Professional Practice
- 6670 Special Seminar: Topics
- 6690 Practicum and Directed Readings
- 6695 Thesis

## **Doctor of Philosophy in Industrial/Organizational (I/O) Psychology**

Students are admitted to the PhD in I/O Psychology on either a full-time or part-time basis. The program is based on a "scientist-practitioner model" and comprises four elements: coursework, independent research, comprehensive examinations, and the dissertation. The program builds on the existing M.Sc. program in Applied Psychology and, normally, students should complete the PhD program within three years (after a Masters degree). Students who do not have to address any deficiencies in their masters' level training are expected to complete all of their required course work and comprehensive examinations within 28 months of commencement of the program.

This program follows the guidelines for doctoral programs established by the Society for Industrial and Organizational Psychology. Further information about this program can be obtained from the Graduate Program Coordinator.

### **Admission Requirements**

The PhD in I/O Psychology follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar. In addition, admission to the program requires a masters' degree in I/O Psychology or related area (minimum average of B+). **Students whose first language is not English, and who have not attended English language secondary school, or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests. Normal minimum requirements are TOEFL internet-based (iBT) score of**

**minimum 100, with no individual band below 20; or an IELTS score of minimum 7.0, with no individual score below 6.5.** Applicants must submit a completed application form (including letter and personal statement), official transcripts, three recommendation forms, and the Graduate Record Exam (GRE) scores (verbal, quantitative, and analytical writing) to the Faculty of Graduate Studies and Research by December 15<sup>th</sup>. Consideration will be given to relevant work, research and volunteer experience. The admission materials are available from the Faculty of Graduate Studies & Research at <http://www.smu.ca/academics/apply-to-grad-studies.html>).

### **Financial Support**

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

The competition for graduate scholarships is adjudicated by the Psychology Department on the basis of GPA, GRE scores, research ability, and recommendation forms. Students are also eligible for Teaching and Research Assistant positions. They may also have the opportunity to teach in the Psychology Department.

### **Program Requirements**

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

Students will complete twelve (12) credit hours of coursework, a first- and second-year research project (three (3) credit hours each), and a dissertation. Students who have not had internship exposure (or equivalent experience) as part of their master's training will be required to complete Psych 6690 (i.e., a 500-hour internship at the end of their first year in the program); other doctoral students may take Psych 6690 on an elective basis to enhance their practitioner skills.

Students are required to pass the comprehensive examination. The intent of the comprehensive examination is to ensure that the student has: (a) broad knowledge of the content areas comprising I/O Psychology and (b) competency in the scientist-practitioner model applied in organizational settings. Students may take the comprehensive examination once they have completed all required courses. Normally the Comprehensive Examination must be completed no later than 28 months after commencement of the program.

After successful completion of the comprehensive examinations, students will complete a dissertation. They will form a Ph.D. Dissertation Supervisory Committee comprising:

- (a) at least four members (who normally, although not necessarily, hold a Ph.D. and faculty positions at a university);
- (b) one of whom must be external to Psychology (and may be external to the University);
- (c) two of whom are faculty members designated as core faculty within the I/O program (including the supervisor).

The candidate must successfully defend the dissertation (following the procedures established by the Faculty of Graduate Studies and Research) no later than 48 months (and normally 24 months) after successful completion of the comprehensive examinations. The dissertation will be defended before an examining panel comprising of:

- (a) the supervisory committee, including the supervisor; and
- (b) an external examiner, who is a recognized authority in the area of research and who is at “arm’s length” from the student and all members of the supervisory committee.

#### Courses

7500	Doctoral Seminar in Organizational Psychology
7600	Doctoral Seminar in Personnel Psychology
7800	The Development and Context of I/O Psychology
7900	Independent Research I
7950	Independent Research II
8000	Dissertation

In addition to these courses, students must also complete three (3) credit hours of PSYC graduate-level courses.

## Graduate Courses (PSYC)

### **6601 Advanced Psychological Statistics and Research Design**

6 credit hours

Statistics applied to psychological research: statistical inference, hypothesis testing, analysis of variance including simple and advanced experimental designs, correlation, and an introduction to regression along with other multivariate methods. Also to be presented will be the logic of experimental and quasi-experimental methods including naturalistic approaches to hypothesis testing.

### **6603 Advanced Assessment**

3 credit hours

A survey of classical and modern test theory including the study of the principles of psychological testing to provide a basis for technical evaluation of test materials and creation of measures for applied purposes. Topics covered include reliability and validity, generalizability, test bias, scale construction, test development, and other issues related to psychological measurement.

### **6605 Personnel Psychology**

3 credit hours

An examination of the methods and procedures used to select, place, and evaluate personnel. Students are expected to become proficient in the design of selection systems and evaluation of job performance.

### **6610 Applied Multivariate Analysis**

3 credit hours

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 T<sup>2</sup>, multivariate analysis of variance and post-hoc procedures, factor analysis, discriminant analysis, and canonical correlation. Considerable use will be made of at least one of the major computerized statistical packages.

### **6615 Training and Development**

3 credit hours

An examination at an advanced level of topics related to training and systematic organizational development. Students are expected to become proficient in the design and evaluation of training and development systems.

### **6620 Topics in Engineering Psychology**

3 credit hours

Selected topics related to the application of experimental psychology to the study of human factors involved in work, e.g., the description, evaluation and/or design of jobs and equipment, the psychophysiology of human performance, system development, person-machine interactions, accidents and safety.

### **6625 Organizational Psychology**

3 credit hours

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.

### **6635 Occupational Health Psychology**

3 credit hours

Theory, research, and professional practice in the domain of Occupational Health Psychology will be examined. Specific topics will vary across offerings however discussions will cover topics in stress, workplace health interventions, work-life balance, workplace mistreatment, and occupational safety. Emphasis will be placed on applying scientific knowledge to organizational practice.

### **6645 Ethics and Professional Practice**

3 credit hours

An introduction to the Canadian Code of Ethics for Psychologists and to the ethical decision making process. An overview of the basic business skills and knowledge necessary to practice development.

### **6670- 6679 Special Seminar: Topics**

3 credit hours

Presentation of topics not covered in the regular graduate curriculum offered according to student interest and the availability of qualified faculty.

### **6690 Practicum and Directed Readings**

6 credit hours

## 112 M.Sc. and Ph.D. in Psychology

---

Supervised training in the application of psychological principles, techniques, and instruments, in various practical settings. Students are expected to accumulate at least 500 hours of practicum training coordinated with relevant readings.

### **6695 Thesis**

6 credit hours

Experimental research or field study conducted under the supervision of an advisory committee.

**The following courses are available only to students registered in Saint Mary's University's doctoral program in Psychology or with permission of the Chairperson of the Department of Psychology to students registered in other programs.**

### **7500 Doctoral Seminar in Organizational Psychology**

3 credit hours

This in-depth seminar course examines specific issues in Organizational Psychology, such as Organizational Development and Organizational Theory.

### **7600 Doctoral Seminar in Personnel Psychology**

3 credit hours

This in-depth seminar course examines specific issues in Personnel Psychology, such as recruitment, selection, and placement.

### **7800 The Development and Context of I/O Psychology**

3 credit hours

This course examines the history of I/O psychology and its relationship with other fields of psychology.

### **7900 Independent Research I**

3 credit hours

This first-year independent research project will involve the application of research methods, statistical methods and data analysis resulting in a written report.

### **7950 Independent Research II**

3 credit hours

This second-year independent research project will involve the application of research methods, statistical methods, and data analysis, resulting in a written report..

### **8000 Dissertation**

3 credit hours

Experimental research or field study conducted under the supervision of an advisor committee.

# Master of Science in Applied Science

Program Coordinator: S. Veres, Engineering

Participating Departments & Program Executive Representatives:

G. Sun	Biology
J. Masuda	Chemistry
H. Wang	Finance, Information Systems and Management Science
C. Suteanu	Geography
V. Owen	Geology
S. Konstantinidis	Mathematics and Computing Science
T. Peckmann	Anthropology/Forensic Science
R. Kanungo	Astronomy & Physics
J. Ivanoff	Psychology
S. Veres	Engineering
J. Lundholm	Environmental Science

Program Manager: Keith Bain

## General Information

The Master of Science in Applied Science Program is a research thesis-oriented, multidisciplinary degree program. The objectives of the program are to provide graduate students with the opportunity to conduct research in a single or a multidisciplinary field of study with practical application; to produce graduates with valuable skills in research and communication preparing them for careers in related fields of research and development in industry or government, or for further graduate studies at the doctoral level. The normal duration of the Program for full-time students is two years. Students may also be admitted for part-time study with the permission of the Program Executive. Students may pursue their degree through a series of work and study terms; this Co-operative option is available for both full and part-time students in the Program. Students benefit from the able guidance of experts in related fields of study within the institution and from outside, as the composition of the supervisory committee reflects the Program's emphasis on the multidisciplinary approach to research. Collaborative research projects with experts at recognized external research institutions are encouraged and, in the case of Co-operative option of study, essential to the success of the student.

## Admission Requirements

The MSc in Applied Science follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar.

In addition, to be eligible to make an application for admission to the Program, applicants must have:

- successfully completed an honours Bachelor's degree in Science from a recognized institution or the equivalent.
- achieved a minimum cumulative quality point average of 3.0 (a 'B' standing) in their overall academic record.

## Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for

graduate funding. Students are encouraged to apply for external scholarships.

## Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

- Students must successfully complete the required core courses, which include the successful completion and defense of the research thesis: APSC 6600; APSC 6601; APSC 6603; and APSC 6604.
- Non co-op students must successfully complete a total of 6 credit hours of graduate-level courses in addition to the required core courses.
- Co-op students must successfully complete a total of 6 credit hours (one semester) in work terms in a cognate field.
- Students must achieve a minimum cumulative GPA of 3.0 (B) out of 4.3 in the Program.
- The Supervisory Committee consists of the research thesis Supervisor and two other faculty members, not all of whom are from the same department and with at least one member an expert in a discipline sufficiently removed from the primary research focus. The Supervisory Committee membership should be submitted to and approved by the Program Executive within one month of the commencement of the program.
- The student must make an oral presentation of his/her research proposal to the Supervisory Committee and obtain approval of the proposed work and schedule by such Committee within eight months of commencing the Program.
- The student must meet with his/her Supervisory Committee in September beginning in their second year to assess the student's progress in research and course work. The annual assessment should be submitted and approved by the Program Executive by September 30.
- As stated in the Academic Regulations Section of the Graduate Programs Academic Calendar, all degree requirements must be completed within 5 years and not sooner than 2 years for full-time students; and within 7 years and not sooner than 4 years for part-time students, after entry into the Master of Science in Applied Science Program.
- Students must submit and successfully defend their research thesis before an Examination Committee, comprised of the Supervisory Committee and an External Examiner. Details on this process and the events leading to it are outlined in the *Graduate Student Handbook*, available on the FGSR website.

## Graduate Courses Applied Science (APSC)

### 6600 Graduate Seminar

6 credit hours

The instructional part of this course focuses on research project definitions, project planning and scientific writing. Students are expected to read articles chosen for discussion, contribute to the critiquing process and make several

presentations during the course. Students are expected to attend a designated number of seminars either at Saint Mary's University or at other surrounding research institutions. Students normally enroll in this course in the first year of the Master of Science in Applied Science program.

### **6601 Research Techniques I**

3 credit hours

Research Techniques I is an interdisciplinary course designed to introduce students to a range of issues and concepts in research techniques across a range of scientific disciplines. This course is divided into four modules: 1) Research Design, Scientific Method and Model Building; 2) Data Collection and Experimentation; 3) Data Analysis and Statistics and 4) Data Interpretation and Communication. There are approximately 3 hours of lecture/seminar and associated laboratory/demonstration/seminar work per week.

### **6603 Thesis I**

6 credit hours

Thesis I constitutes the first segment of the student's thesis research project. Students normally register for this course in their first year in the program. Research is conducted under the guidance of the research thesis Supervisor in conjunction with the other Supervisory Committee members. Successful completion of APSC 6603 includes a satisfactory evaluation and Annual Assessment of the student's written and oral presentation of his/her Research Progress Report by the Supervisory Committee. The Supervisor normally submits the completed evaluation to the Program Committee on or before September 30<sup>th</sup> of that year.

### **6604 Thesis II**

6 credit hours

Prerequisite: APSC 6603.0

Thesis II constitutes the second segment of the student's thesis research project. Students normally register for this course in the Fall semester of their second year in the Program. Research is conducted under the guidance of the faculty Research Supervisor in conjunction with the Supervisory Committee.

### **6876 - 6899 Directed Studies**

3 credit hours

These courses are taken during the first or second year of enrolment in the Master of Science in Applied Science program. The directed studies will be conducted under the supervision of a faculty member following approval by the Program Coordinator.

**All of the following courses require permission of the instructor to register.**

## **Biology (BIOL)**

### **6606 Current Topics in Biology**

3 credit hours

A journal article-based examination of developments in biology that are relevant to all biology graduate students. **NOTE:** This course is compulsory for all graduate students in biology and is normally taken in the first year.

### **6607 Advanced Molecular Biology**

3 credit hours

The application of molecular techniques to broad biological problems is the focus of this course. It is suitable not only for students pursuing a degree in molecular biology but also to those who will use advanced techniques such as DNA sequencing, bioinformatics and genomics to approach larger aspects of biology, for example population genetics, taxonomic problems, paternity identification, etc.

### **6608 Biostatistics for Graduate Students**

3 credit hours

Analysis of biological data at the advanced level. The course will build on previous biostatistics experience and include multivariate analysis, nonparametric methods, and model selection as well as manipulation and analysis of large, complex databases.

### **6609 Field Methods and Experimental Design**

3 credit hours

Students will be exposed to standard methodologies for data collection under field conditions, including sampling protocols, technical devices available and types of numerical and descriptive data that are typically collected. Design of both experimental and ecological research projects will be discussed.

### **6625 Theoretical Plant Ecology**

3 credit hours

This course offers an advanced treatment of plant ecology, starting with theoretical principles but moving into empirical tests of theory. Topics covered include competition, facilitation, coexistence, ecosystem functioning, plant traits and modeling. Students will collaborate on a common experiment or field study during the course.

### **6690 - 6699 Directed Study in Biology**

3 credit hours

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.

## **Chemistry (CHEM)**

### **6611 Selected Topics in Physical Chemistry**

6 credit hours

This is a graduate-level directed study course in a specific area of physical chemistry. Topics can vary but reflect the expertise of the instructor and the research interests of the student(s).

### **6612 Quantum Chemistry**

3 credit hours

The advanced principles of quantum physics are used to develop an understanding of atomic and molecular structure. This is a modified version of undergraduate course CHEM 4412. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6613 Physical Chemistry**

3 credit hours

An advanced course on statistical thermodynamics and the study of chemical reaction rates and mechanisms. This is a modified version of undergraduate course CHEM 4413. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6614 Symmetry and Chemical Applications of Group Theory**

3 credit hours

An advanced course on 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. This is a modified version of undergraduate course CHEM 4414. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6621 Selected Topics in Inorganic Chemistry**

6 credit hours

This is a graduate-level directed study course in a specific area of inorganic chemistry. Topics can vary but reflect the expertise of the instructor and the research interests of the student(s).

**6622 Advanced Topics in Inorganic Chemistry**

3 credit hours

Current topics and applications of inorganic chemistry will be covered, and may include the following: cluster chemistry, chemistry of the lanthanides and actinides, inorganic and organometallic materials, bioinorganic chemistry and inorganic photochemistry. This is a modified version of undergraduate course CHEM 4422. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6631 Selected Topics in Analytical Chemistry**

6 credit hours

This is a graduate-level directed study course in a specific area of analytical chemistry. Topics can vary but reflect the expertise of the instructor and the research interests of the student(s).

**6632 Instrumental Analysis I**

3 credit hours

Emphasis will be placed on i) separation techniques including high performance and gas chromatography; ii) organic mass spectrometry; iii) analogue circuits and devices and digital electronics. This is a modified version of undergraduate course CHEM 3432. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6633 Instrumental Analysis II**

3 credit hours

Emphasis will be placed on (i) atomic spectroscopy including atomic absorption and emission; (ii) x-ray fluorescence; (iii) modern electro-chemical techniques including differential pulse voltammetry and stripping analysis;; (iv) inorganic mass spectrometry. This is a modified version of undergraduate course CHEM 4443. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6641 Selected Topics in Organic Chemistry**

6 credit hours

This is a graduate-level directed study course in a specific area of organic chemistry. Topics may include organic synthesis, stereochemistry, heterocyclic compounds and natural products, and reflect the expertise of the instructor and the research interests of the student(s).

**6643 Organic Reaction Mechanisms**

3 credit hours

A study of the more important mechanisms of reactions of organic molecules and the methods by which they are elucidated: applications of kinetic data, isotope effects, linear free energy relationships, orbital symmetry control and acid and base catalysis. This is a modified version of undergraduate course CHEM 3443. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6644 Synthesis in Organic Chemistry**

3 credit hours

A study of the principles involved in the planning and execution of the synthesis of organic molecules. Laboratory experiments are designed so that students learn to identify their products by the use of spectroscopic and other techniques. This is a modified version of undergraduate course CHEM 4444. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6645 Organic Spectroscopy**

3 credit hours

An advanced course on interpretation of  $^1\text{H}$  and  $^{13}\text{C}$  nuclear magnetic resonance spectra. Infrared spectroscopy, mass spectrometry, and ultra-violet spectrophotometry will also be applied to the problems of organic and organometallic structural determination. This is a modified version of undergraduate course CHEM 3445. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6651 Biochemistry**

3 credit hours

This course reviews and/or presents an advanced course on the chemistry and biochemistry of macromolecules such as

proteins, enzymes, simple and complex carbohydrates, lipids, nucleic acids, and coenzymes. A relationship between the molecular structure of a given macromolecule, its properties, and its function in the living system is explored. The laboratory work concentrates on the isolation, purification, and analysis of naturally occurring macromolecules and includes study of their properties, using micro chemical measurements. This is a modified version of undergraduate course CHEM 3451. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6652 Biochemistry: Metabolism**

3 credit hours

A course presenting principles of metabolism of biomolecules involved in energy production, formation of biosynthetic substrates and metabolism of nucleic acids. Both catabolic and anabolic processes as well as transport of biomolecules within cells and organs are considered. This is a modified version of undergraduate course CHEM 4452. Students attend the undergraduate lectures and are expected to complete at least the course requirements of the undergraduate course as well as any supplementary graduate requirements as specified by the instructor.

**6653 Selected Topics in Biochemistry**

6 credit hours

This is a graduate-level directed study course in a specific area of biochemistry. Topics can vary but reflect the expertise of the instructor and the research interests of the student(s).

**6690 - 6699 Directed Study in Chemistry**

3 credit hours

These courses are intended to supplement the course offerings in chemistry 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.

## Computing and Information Systems (CISY)

**6624 Database Systems**

3 credit hours

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.

**6636 Decision Support Systems**

3 credit hours

Students explore decision support systems (DSS), computer applications specifically designed to support and enhance user decision-making. Topics include: DSS examples (expert systems, BI systems, data mining, and others), architecture, design issues, and implementation using Visual Basic programming in MS Excel.

**6690 Seminar in Computing and Information Systems**

3 credit hours

This course deals with selected topics in computing and information systems. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

**6692 - 6699 Directed Study in Information Systems**

3 credit hours

Intended to supplement or provide an alternative to the regular computing and information systems courses in order to meet the special needs and interests of students, these courses provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

## Computing Science (CSCI)

**6623 Cryptography**

3 credit hours

An advanced course in the various aspects of data security. Possible topics: classical encryption methods such as Vignere and Vernan ciphers; the Data Encryption Standard; key distribution methods and public key encryption; and authentication using digital signatures. Applications of these methods in the design of protocols for data privacy and security will also be studied.

**6651 Theory of Computation**

3 credit hours

An advanced course in some of the fundamental theoretical concepts in computing science. Students will be introduced to the concepts of decidable, P, NP, NP-complete, and NP-hard problems. Two classes of languages of interest to computing scientists, namely, regular and context free languages, and corresponding automata for recognizing these languages, will also be studied. A brief discussion on the semantics of programming languages will be included. The concept of automata will be further extended using Turing machines. Turing machines will be used to explore the concept of decidability along with examples of decidable and undecidable problems.

**6652 Algorithm Analysis**

3 credit hours

Some of the key techniques of efficient algorithm design that will be discussed: divide and conquer; greedy methods; dynamic programming; graph traversal; and change of representation. Measuring algorithm performance and lower bounds for various problems will be studied. An introduction to complexity theory-P, NP, polynomial time reducibility, and NP-completeness- will also be provided

**6661 Database Systems**

3 credit hours

An advanced course in the design, implementation, use and maintenance of databases. Topics will include: data models such as the entity-relationship model, the relational model, and the object-oriented model; relational languages such as relational algebra, relational calculus, and SQL; the theory of normal forms of database design; use of indexes for efficient date retrieval; and database implementation using a commercial database management system. Other topics may

be included, such as query optimization, database control, and distributed database systems.

### **6663 Numerical Software**

3 credit hours

This course will study the software development process in the area of numerical software. Emphasis will be placed on software development and implementation aspects of a variety of numerical algorithms. The course will also examine a substantial number of software packages including some which are currently available in some of the large commercial software libraries, as well as a number of published software packages which have yet to appear in libraries and even a few experimental codes which have not yet appeared in the literature. The main project in the course will be the development of a large software package by the class working in programming teams in a selected area of numerical algorithms. Other projects to be undertaken during the course include the modification of one or more existing mathematical software packages and the critical analysis of several existing software packages. A number of assignments related to the software packages considered will also be given.

### **6671 Computer Graphics**

3 credit hours

This course provides an overview of the principles and methodologies of computer graphics, including the representation, manipulation, and display of two- and three-dimensional objects. Subtopics may include characteristics of display devices (i.e., raster, vector); representing primitive objects (lines, curves, and surfaces) and composite objects; two- and three-dimensional transformations (translation, rotation, scaling); hidden lines and surfaces; shading and colouring; interactive graphics and the user interface; animation techniques.

### **6674 Information Retrieval**

3 credit hours

This course considers manipulations on a bibliographic database. Topics to be covered include an introduction and basic definitions, inverted file structures, automatic indexing, prototype systems, retrieval and refinements and natural language processing.

### **6676 Computer Vision and Digital Image Processing**

3 credit hours

An advanced course in the concepts used in computer vision and digital image processing. Computer vision techniques extract information from an image, while image processing techniques modifies the image for viewing by the human eye. Topics covered include the following: sampling and resolution, image processing, edge detection, segmentation, discrete image transforms, restoration and enhancement, and image compression.

### **6677 Data Mining**

3 credit hours

Data mining refers to a family of techniques used to detect interesting knowledge in data. With the availability of large databases to store, manage and assimilate data, the new thrust of data mining lies at the intersection of database systems, artificial intelligence and algorithms that efficiently analyze data. The course will use concepts from pattern

recognitions, statistics, data analysis and machine learning. The size of databases and high complexity of techniques present many interesting computational challenges.

### **6682 Artificial Intelligence**

3 credit hours

An advanced course in artificial intelligence (AI). The course will consider philosophical, mathematical, experimental, and implementation aspects of such topics as problem solving, searching, game playing, genetic algorithms, learning, neural networks, natural language processing, vision, knowledge representation, logic, expert systems, reasoning under uncertainty, fuzzy sets, planning, and robotics. In addition to a theoretical introduction, students will also gain experience using one or more of the popular AI tools.

### **6691 - 6699 Special Topics in Computing Science**

3 credit hours

This course covers advanced topics in computing science chosen according to the interests of the students and instructor, and requires some measure of independence and initiative from the student.

## **Engineering (EGNE)**

### **6690-6699 Directed Study in Engineering**

3 credit hours

These courses are intended to supplement the course offerings in engineering and allow students to delve deeper into a subject of particular interest to them. Students must show initiative and be willing to work independently.

## **Environmental Science (ENVS)**

### **6470 Environmental Remediation and Restoration**

3 credit hours

Current approaches to remediating damaged ecosystems, including such topics as mine reclamation, invasive species control, ecological restoration and constructed ecosystems are examined. Emphasis is placed on the scientific and socioeconomic bases for remediation and restoration, including the following: theoretical approaches, the role of traditional ecological knowledge; gaps between theory and practice; and hands-on training in local ecological restoration projects.

### **6487 Environmental Contaminants**

3 credit hours

The focus of this course is on key environmental contaminants, including mercury, other metals, and selected volatile organic compounds. Emphasis is placed on experiential approaches, including field work and laboratory research, to study these environmental contaminants. Students are expected to participate in the critical analyses of literature, and in the discussion and presentation of their own research results.

### **6620 Restoration Ecology**

3 credit hours

This course offers an advanced treatment of contemporary issues in restoration ecology, including conservation genetics, invasive species, phytoremediation, restoration

ethics, and ecological integrity. Experiential learning is emphasized and there may be opportunities for hands-on experience in actual restoration projects or in experimental microcosms. Students will also develop scientific writing skills by writing real grant proposals or review papers.

**6650 Natural Resource Management**

3 credit hours

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 analyzing the impacts of resource use.

**6660 Environmental Pattern Analysis and Modeling [GEOG 6660]**

3 credit hours

The focus of this course is on theory and practical methods for characterizing and modeling environmental systems, which are complex and often strongly variable in space and/or time. It includes approaches to patterns and pattern change evaluation, data mining, and dynamic system modeling. Geoscience and life science applications are studied, such as rivers, coastal areas, fisheries, forests, mineral distribution, geomorphologic features, geohazards, ecosystem dynamics, atmospheric variables.

**6690 - 6699 Directed Studies in Environmental Science**

Students will pursue a short term research project in such areas as: oceanographic sampling and analysis, policy development or environmental impact assessment. Students must identify an appropriate supervisor; provide a project proposal; and at the end of the project, submit a written report.

**Forensic Science (FRSC)**

**6690-6699 Special Topics in Forensic Sciences**

3 credit hours

This course covers advanced topics in forensic science chosen according to the interests of the students and instructor, and requires some measure of independence and initiative from the student.

**Geography (GEOG)**

**5614 Integrated Coastal Zone Management**

3 credit hours

Spatial approaches to the integrated planning and management of the coastal zone within a sustainable development framework will be discussed and analyzed using case studies from intensively developed coastal zones in Europe, the Mediterranean, Southeast Asia, and North America. Emphasis will be placed on the use of geographical information systems as management and planning tools.

**5623 Glaciers and Glaciation**

3 credit hours

Glaciers have profound effects on landscapes and are an important component of global physical systems. Glaciology, causes and records of fluctuations in glacial coverage, glacial processes, glacial landforms, and the legacy of past glacial activity on earth will be examined. Broader impacts of glacial activity and changes on humans and the environment will also be investigated.

**5632 Social Geography of the City**

3 credit hours

Examines the location of residential areas in cities, and the differentiation and segregation of those areas by income, occupation, race, ethnic status, and religion. Emphasis is placed on the historical evolution of social patterns, on the link between social areas and the physical fabric of the city, on competition between groups for amenity locations and facilities, and on the conflicts over noxious facilities.

**5633 Fluvial Geomorphology**

3 credit hours

This course examines processes and landforms associated with rivers. Topics include channel processes and morphology, sedimentology and depositional environments. Case studies of human impacts on river systems are also presented.

**5636 Advanced Remote Sensing**

3 credit hours

A course in advanced topics in remote sensing building upon the basic concepts and image processing skills learned in GEOG 3356. At the advanced level, remote sensing involves more numerical processing and statistical analysis, and greater understanding of physical principles of remote earth observation. Recent studies in remote sensing will be examined and discussed critically. Students will develop projects based on their background and interests using remote sensing for applied studies.

**5639 Urban Historical Geography**

3 credit hours

The geography of the city (its morphology and function) is employed as an indication of the landscape impression produced by various historical periods (conceived as cultures) during the evolution of urban forms in Europe and North America. Examples are taken in historical sequence from Greek to Industrial times.

**5642 Urban Planning**

3 credit hours

Examines the physical and environmental planning of urban areas, with special reference to current practice in Nova Scotia. Topics include the emergence of modern town planning, the Planning Act, planning process, structure plans, general and partial urban allocation models, municipal plans, zoning, subdivision control, site planning, urban renewal, and new towns. The costs and benefits of planning are appraised.

**5643 Natural Hazards**

3 credit hours

This course considers natural hazards as a part of human-environment relations characterized by changing geographical patterns. Earthquakes, volcanic eruptions, landslides, severe weather, floods, coastal hazards, extraterrestrial body impacts are analyzed in a multi-scale perspective, along with their functional relationships. The human impact of natural hazards is discussed, with an emphasis on environmental perception, public awareness and action. Possibilities of forecasting are examined, as well as risk assessment and mitigation strategies.

**5652 The Geography of Urban Transportation**

3 credit hours

This course focuses on patterns and processes of movement within cities. Topics for consideration include: the role of transportation in shaping urban form, transportation problems in cities today, the urban transportation planning process, patterns of public transit and automobile use, environmental impacts of urban transportation, the communications-transportation trade-off.

**5653 Coastal Geomorphology**

3 credit hours

This course discusses both the physical processes that operate in the coastal zone and the resulting landforms. The actions of waves, tides, currents, sea level changes, wind, and humans in the formation of coastal features are considered. Additional topics include the long-term development and classification of coasts.

**5686 Concepts in Geographical Information Systems (GIS)**

3 credit hours

This course provides an introduction to geographic information systems (GIS). Consideration is given to GIS data structure, data input, quality, storage and editing, GIS analysis functions and an introduction to the implementation of a GIS. Although the course has a strong technical component, the central underlying theme is using GIS to improve decision making in natural, human and management sciences.

**5696 Applications in Geographical Information Systems**

3 credit hours

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.

**6602 Directed Studies in Urban/Regional Geography.**

6 credit hours

A directed studies course on topics involving urban and regional geography.

**6603 Directed Studies in Environmental Geography**

6 credit hours

A directed studies course on topics involving environmental geography.

**6604 Directed Studies in Marine Geography**

6 credit hours

A directed studies course on topics involving marine geography.

**6605 Directed Studies (General)**

6 credit hours

A directed studies course on general topics in geography.

**6612 Directed Studies in Urban/Regional Geography**

3 credit hours

A directed studies course on topics involving urban and regional geography.

**6613 Directed Studies in Environmental Geography**

3 credit hours

A directed studies course on topics involving environmental geography.

**6615 Directed Studies (General)**

3 credit hours

A directed studies course on general topics in geography.

**6624 Directed Studies in Marine Geography**

3 credit hours

A directed studies course on topics involving marine geography.

**6690 - 6699 Directed Study in Geography**

3 credit hours

These courses are intended to supplement the course offerings in geography 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.

**Geology (GEOL)****6400 International Field Camp**

3 credit hours

This course is offered on an irregular basis in the form of a Geology field trip abroad, allowing the students to be exposed to geological features that cannot be found in Canada. 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 geological report project. Students may be required to travel at their own expense.

**6414 Tectonics**

3 credit hours

This course describes the major features of the Earth and its place in the solar system. The evidence for plate tectonics, the analysis of plate movements, and the characteristic rock associations formed in different tectonic environments are presented. 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.

**6441 Mineral Resources**

3 credit hours

A study of Earth's mineral resources, their classification, genesis and distribution in time and space. Important examples from Canada and abroad will be discussed. Topics will also include mineral exploration techniques, mining methods, metallurgical recovery, net smelter return, and ore reserve estimation/classification. Laboratories will examine a variety of base and precious metal ore deposit types. Mining/exploration practice and resource exploitation are also examined in terms of their environmental impacts.

**6450 Advanced Igneous and Metamorphic Petrology**

3 credit hours

The topics covered in this course include magmatic petrogenesis; magma types; petrographic provinces 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; phase equilibria in metamorphic systems; reaction balancing methods; porphyroblast-matrix relations; quantification of pressure-temperature-time trajectories. Laboratory work is centered on the acquisition and manipulation of microprobe data.

**6465 Advanced Sedimentology**

3 credit hours

This course examines current research on sedimentary rocks and basins and the methods used to understand them. The course is taught as a series of modules by multiple instructors who introduce the students to selected areas of research. Among the topics to be covered are modern carbonate and evaporite environments, exotic chemical sedimentary rocks and diagenetic cements, volcanogenic sedimentary rocks, sequence stratigraphy in carbonate and siliciclastic successions, applications of ichnology (trace fossils), the use of stable isotopes in the study of terrestrial carbonates, and the use of detrital minerals to interpret basin evolution.

**6654 Applied Geochemistry**

3 credit hours

The application of graphical and numerical tools for classifying Earth materials according to their chemical composition is studied through field-based and computer-based laboratories. This course examines geochemical sampling, instrumental analysis, statistical evaluation of real geochemical data, and the methods of proper reporting and quality control. The students are introduced to novel methods (fluid inclusion microanalysis, alteration mapping in ore deposits, reaction path modeling) and their application in characterizing geochemical processes on Earth.

**6666 Petroleum Geology**

3 credit hours

The origin, migration and accumulation of oil and natural gas. Types of oil bearing structures and basic principles in oil exploration.

**6690 - 6699 Directed Studies in Geology**

3 credit hours

Intended to supplement or provide an alternative to the regular geology courses in order to meet the special needs

and interests of students. The course provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

## Management (MGMT)

**6687 New Venture Opportunities**

3 credit hours

Students are led through the development of the major elements required for a business plan for a new venture, as well as developing an appreciation for new venture growth in the economy. As a planning and financing tool, the business plan outlines in detail and specifically finance, management and the overall feasibility of a possible new venture. Attention is given to customizing the plan to specific requirements of different financing (e.g., venture capital, bank finance, angel investors).

## Management Science (MGSC)

**6603 Statistical Applications in Management Science I**

3 credit hours

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.

**6615 Strategic Design and Improvement of Operations**

3 credit hours

This course is aimed at the student who wants to deepen their understanding of the strategic role of operations and the design of operations to facilitate competitive advantage in both service and production environments. The strategic design and improvement of operations will be examined in the context of key performance priorities such as: cost, quality, flexibility, delivery, and time. Topics include: process design and improvement, implementation of operations improvement strategies, and integration of information technology and operations systems. The course will make significant use of cases and group work.

**6618 Total Quality Management**

3 credit hours

This course introduces the student to the concepts of total quality management, quality improvement, and statistical quality control as key ingredients of a quality strategy. The role of a quality strategy in improving the competitiveness of the firm in both local and international markets is emphasized. Using a case-oriented approach, students will be introduced to the philosophies of Deming, Juran and Crosby, the dimensions of product and service quality, modern statistical improvement tools, and the relationship between quality strategy and the functional areas of the firm.

**6690 Seminar in Management Science**

3 credit hours

This course deals with selected topics in management science. It is offered when in sufficient demand, and specific topics covered may vary depending on the interests of students and instructor.

**6692 - 6699 Directed Study in Management Science**

3 credit hours

Intended to supplement or provide an alternative to the regular management science courses in order to meet the special needs and interests of students, these courses provides an opportunity to study a particular subject in detail and requires from the student some measure of independence and initiative.

## **Mathematics (MATH)**

**6690 - 6699 Directed Study in Mathematics**

3 credit hours

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.

## **Physics (PHYS)**

Students should consult with the supervisor and the program representative before registering for any of these courses.

**6701 Radiation Detection Techniques**

3 credit hours

This course introduces the students to sources of radiation and some of the basic detection techniques. The topics may

include interaction of radiation with matter, general detector characteristics, and introduction to gas filled detectors, semiconductor detectors and scintillator detectors.

**6790-6799 Special Topics in Physics**

3 credit hours

This course covers advanced topics in physics chosen according to the interests of the students and instructor, and requires some measure of independence and initiative from the student.

## **Psychology (PSYC)**

**6790 - 6799 Directed Study in Psychology**

3 credit hours

These courses are intended to supplement the course offerings in psychology 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.

## Doctor of Philosophy in Applied Science

---

Program Coordinator: TBA

Participating Departments & Program Executive

G. Sun Biology

J. Masuda Chemistry

A. Wiacek Environmental Science

H. Wang Finance, Information Systems and Management Science

C. Suteanu Geography & Environmental Studies

V. Owen Geology

S. Konstantinidis Mathematics and Computing Science

R. Kanungo Astronomy & Physics

Program Manager: Keith Bain

### General Information

The Doctor of Philosophy in Applied Science Program is a research dissertation-oriented degree program. The objectives of the program are to provide graduate students with the opportunity to conduct research in a single or multidisciplinary field of study with practical application; to produce graduates with valuable skills in research and communication preparing them for careers in related fields of research and development in industry, government or academia. The normal duration of the Program for full-time students is three years, with the maximum time for completion at seven years. Students benefit from the guidance of experts in related fields of study within the institution and from outside, as the composition of the supervisory committee reflects the Program's emphasis on the multidisciplinary approach to research. Collaborative research projects with experts at recognized external research institutions are an important part of the Program in the required Research Internship.

### Admission Requirements

The Ph.D. in Applied Science follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Studies Academic Calendar.

In addition, to apply for admission to the Program, applicants normally must have:

- a. successfully completed an M.Sc. degree in Science from a recognized institution or the equivalent.
- b. achieved a minimum cumulative grade point average (CGPA) of 3.70 (an 'A-' standing) in their M.Sc.-level coursework.
- c. **Students whose first language is not English, and who have not attended English language secondary school, or have a previous degree completed totally in English, are required to take one of the standardized English language proficiency tests. Normal minimum requirements are TOEFL internet-based (iBT) score of minimum 100, with no individual band below 20; or an IELTS score of minimum 7.0, with no individual score below 6.5.**

A student wishing to transfer from the M.Sc. in Applied Science program, at Saint Mary's University, directly into the Ph.D. program must submit a form signed by each member of the supervisory committee attesting to the aptitude and motivation of the student to pursue research at

the Ph.D. level. **This will normally occur before the end of the student's third semester of residency in the M.Sc. in Applied Science Program.**

The student must also supply two letters of recommendation (these can be from the main supervisor and/or supervisory committee members) that describe the student's aptitude for research and suitability for the Ph.D. in Applied Sciences Program, and the suitability of the research project for training at the Ph.D. level. This form is to be approved by the Program Executive and the Dean of FGSR. The form, the recommendation letters, an online application, and a Doctoral Research Proposal, constitute a complete Application for Transfer to Ph.D. Program.

Students transferring directly from the M.Sc. in Applied Science program at Saint Mary's University who have already taken APSC 6600 (Graduate Seminar) will not be required to enroll in APSC 7600, but will be given advance credit so that the 39.0 credit hour minimum is still met. If approved, no M.Sc. degree is conferred. From the date in which the student officially transfers into the Ph.D. program, the student will have two semesters to complete the Doctoral Research proposal, (APSC 7602) and five semesters to complete the Qualifying Examination (APSC 7603).

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships.

### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

a. Students will take a total of 39 credit hours comprising 9 credit hours in two core courses (APSC 7600 and 7610) plus 30 credit hours of other requirements. At the discretion of the Supervisory Committee, students may also be required to take additional formal courses prior to, and in preparation for, the Doctoral Research Proposal (APSC 7602). The other requirements include 6.0 credit hours for the Doctoral Research Proposal (APSC 7602), 6.0 credit hours for the Qualifying Examination (APSC 7603), 6.0 credit hours for the Research Internship (APSC 7620) and 12.0 credit hours for the Doctoral Dissertation (APSC 7604)

b. The Supervisory Committee consists of the dissertation Supervisor and two other faculty members with at least one member an expert in a discipline sufficiently removed from the primary research focus. Committee members can be

external to the university, but should have a PhD degree or equivalent qualification to serve on the committee. The Supervisory Committee membership should be submitted to and approved by the Program Executive within 60 days of the commencement of the program.

c. Students are expected to complete the Doctoral Research Proposal (APSC 7602) within 3-4 semesters of beginning the program. The proposal will consist of a written document and a public presentation, followed by an in camera session with the Examination Committee. The committee will examine the candidate's written proposal and determine the suitability of the proposal and aptitude of the student for research at the Ph.D. level. At this point, the Examination Committee will also determine whether the student has the required foundational knowledge of their field(s) and makes a list of required courses that the student should complete before undertaking the Qualifying Examination.

d. Students are expected to complete the Qualifying Examination (APSC 7602) within 7 semesters of beginning the program. The objective is to assess the student's ability to synthesize information across fields and potential to contribute to original research in their field. More importantly, the Qualifying Examination determines whether the student is ready to begin writing the PhD thesis. The student must demonstrate appropriate breadth of knowledge and show an understanding of the applications of science to real-world problems in their area. The student will prepare written responses to two questions (one related to the research area of the student; one from an allied area) determined by the Examination Committee and submit the responses no later than seven (7) days after the questions were given. The student will be examined by the Examination Committee in camera who will consider primarily the content of the written responses and the student's answers to questions. The written responses will take the format of short review papers, synthesis or forum articles in peer-reviewed journals. On successful completion of this exam, the student will be considered a candidate for the Ph.D. in Applied Science. If the student is not successful, the Examination Committee will determine which components require revisions, and will re-examine the candidate within six (6) weeks. A second failure will result in the student being determined to be not in Good Academic Standing under Graduate Academic Regulation #30 "Standing Required" and will be required to withdraw from the program.

e. Students must complete a Research Internship (APSC 7620) of at least 4 months duration before they finish the program.

f. Students must complete and defend a Doctoral Dissertation (APSC 7604) as the final requirement of the PhD program. The dissertation documents original research completed by the student and the bulk of this should be publishable in scientific literature. The format of the thesis (e.g. chapters as separate manuscripts versus traditional thesis) is to be determined by the Supervisory Committee. The dissertation will contain a section devoted to the description of the next steps that can be taken towards knowledge transfer. The "next steps" will vary depending

on the nature of research. This requirement is distinct from the usual statements at the end of a Ph.D. dissertation indicating future research directions in that an outline of specific steps is required. This could include designs for further experiments, field trials, evidence of having consulted with professionals, end-users or other recipients of knowledge transfer, or campaigns for public outreach or extension. This "knowledge transfer plan" is equally important regardless of where the student's research falls along a continuum of fundamental to applied research. Students engaged in more fundamental research will be required to articulate next steps toward application of the research results, even if these are relatively distant from commercialization or other direct applications. The dissertation defense will consist of a public oral presentation, followed by questions from the public, then rounds of questioning by the Examination Committee. The questioning will be open to the public. The Examination Committee will assess the student's understanding of the completed work, including its context within the research field and potential applications of this work

g. For the defense of the Doctoral Research Proposal and Qualifying Examination, the Examination Committee will consist of the supervisor, the supervisory committee and one external (external to the department of the primary supervisor). The same committee may be used for both the Doctoral Research Proposal defense and the Qualifying Examination. The Examination Committee for the dissertation defense will consist of the supervisor, the supervisory committee, and one member from the related research community, but external to the University.

h. The student must meet with their Supervisory Committee in September beginning in their second and subsequent years to assess the student's progress in research and course work. The annual assessment should be submitted and approved by the Program Executive by September 30.

i. Students are required to fulfill the equivalent of three (3) years of full-time, on-campus residency (i.e. "minimum-time-for-completion"). All degree requirements must be completed within seven (7) years for full-time students (i.e. "maximum-time-for-completion") after entry into the PhD in Applied Science program. Students may not enter the program as part-time students. Per standard FGSR regulations and policies, students beyond their minimum-time-for-completion (i.e. in years 4-7 of their programs) will be considered, by default, part-time students. Students can apply for full-time status in years 4-7 of their programs, but they must meet the definition as a Full-Time Continuing Student, per Graduate Academic Regulation 8/b/(ii) as stated in the Graduate Academic Calendar

## Graduate Courses

### Applied Science

#### 7600 Graduate Seminar

6 credit hours

The instructional part of this course focuses on research project definitions, project planning and scientific writing. Students are expected to read articles chosen for discussion,

contribute to the critiquing process and make several presentations during the course. Students are expected to attend and report on a designated number of seminars or colloquia either at Saint Mary's University or at other surrounding research institutions.

**7602 Doctoral Research Proposal**

6 credit hours

The doctoral research proposal is the first stage in the research program and will be due normally within 3-4 semesters from the beginning of the program. The proposal will consist of a written document and a public presentation, followed by an *in camera* session with the Examination Committee.

**7603 Qualifying Examination**

6 credit hours

The Qualifying Examination will assess students' ability to synthesize information across fields, the potential to contribute to original research in their fields, and whether the student is ready to begin writing the dissertation. The student must demonstrate appropriate breadth of knowledge and show an understanding of the applications of science to real-world problems in their area. The student is expected to complete the Examination within seven semesters from the beginning of the program..

**7604 Doctoral Dissertation**

12 credit hours

The dissertation documents original research completed by the students under the supervision of their supervisor(s), must contain a "knowledge transfer plan" which describes "next steps" that can be taken to move the outcomes from the research along the spectrum from fundamental research to commercialization. The dissertation will be presented/defended by the student and examined by an Examination Committee in public..

**7610 Research Applications and Knowledge Transfer**

3 credit hours

An introduction to applied research in the natural sciences. Topics will include research ethics, knowledge transfer, entrepreneurship, public outreach and accessing research funding opportunities. The course will be facilitated by scientists who have successfully participated in technology transfer, business faculty and professionals, and program officers from funding agencies.

**7620 Research Internship**

6 credit hours

A research internship of at least four (4) months at a government, non-governmental or industrial research institution, or at an academic research laboratory at a different university. The intent is to have the student gain additional experience in research techniques or applications and benefit from expertise not available locally. The student is required to submit a proposal at least two months in advance of the start of the internship, to be approved by the Supervisory Committee and Program Coordinator. The proposal will outline learning objectives to be completed by the student. The student will submit a report to the Supervisory Committee, no later than one month after the internship ends. The Supervisor and Supervisory Committee are expected to help the student find and fund an appropriate internship. Should an appropriate internship be unavailable for a particular student, the student will have to complete a technology transfer study based on his/her research and present it to the Supervisory Committee augmented by one member from the Sobey School of Business or the Industrial Liaison Office. The student will normally be required to spend at least 50% of their time during the internship working at the place of internship.

**7676-7699 Directed Studies**

3 credit hours

Directed studies courses allow for in-depth exploration of a topic not currently available in current graduate course offerings. Directed studies will be conducted under the supervision of a faculty member following approval by the Program Coordinator.

# Graduate Programs in Education

Professor E. Enns

The Faculty of Education offers opportunities for practicing teachers to pursue post-degree credentials.

## Master of Education in Curriculum Studies: Teaching English as a Second Language (TESL)

This program is offered by Mount Saint Vincent University in collaboration with the Faculty of Education at Saint Mary's University. Saint Mary's University teaches half of the courses constituting this program. These courses provide an introduction to the principles and practices of second or foreign language teaching.

The courses which Saint Mary's teaches as part of the M.Ed. (TESL) program are also suitable for inclusion in Integrated Programs for the professional development of teachers dealing with students living in more than one language.

## Post-Degree Certification

Saint Mary's offers two post-degree Certificate programs for teachers which received general approval for the upgrading of Nova Scotia Teachers Certificates. Teachers are advised to seek individual certification approval from the Registrar of Teacher Certification, Nova Scotia Department of Education, PO Box 578, Halifax, N.S. B3J 2S9 prior to enrolment in the certificate program.

## Certificate in the Mathematical Sciences for Education

The Certificate in the Mathematical Sciences for Education is described under Mathematics and Computing Science in Section 4 of the Saint Mary's University *Undergraduate Academic Calendar*.

## Certificate in Linguistics

The Certificate in Linguistics is described under Linguistics in Section 4 of the Saint Mary's University *Undergraduate Academic Calendar*.

## Graduate/Post-Degree Courses (EDUC)

### 5523 Methods in Mathematics for In-Service Teachers 3 credit hours

Intended for teachers from junior and senior high schools in Nova Scotia, students will learn to integrate mathematical skills acquired in other Certificate in the Mathematical Sciences for Education courses into their teaching practice,

using these skills to create a more effective learning climate in the math classroom, create and use problem-solving strategies and cooperative learning techniques, make appropriate use of technology, and develop a deeper understanding of the role of secondary school mathematics in lifelong learning. Students will examine a variety of teaching strategies and instructional resources for designing, implementing, and enriching mathematical instruction. They will engage in reflection on their conceptions of math and their teaching approaches, examine and present recent research, share examples of exemplary practice, study students' learning needs and curriculum design and develop a personal and professional growth plan.

### 5525 Curriculum and Instruction in Elementary School Mathematics: Applications of Mathematical Theory

3 credit hours

This course deals with the application of the student's understanding of mathematical theory to the improvement of curriculum and methods of instruction in elementary school mathematics.

### 5526 Curriculum and Instruction in Elementary School Science: Applications of Scientific Theories and Results

3 credit hours

This course deals with the application of the student's understanding of scientific theories and results to the improvement of curriculum and methods of instruction in elementary school science.

### 5638 Principles of Learning Theory in Education

3 credit hours

A seminar course dealing with those aspects of learning theory as developed through the findings of experimental psychology that are particularly relevant to curriculum, pedagogy and evaluation across a range of academic disciplines.

### 5639 The Application of Learning Theory in Education

3 credit hours

Selected theories of learning and classroom practices are analyzed with the purpose of determining how theories of learning are used, and how educational practices are informed and altered by them.

### 5641 Principles of Language Acquisition for Education

3 credit hours

Intended primarily for teachers of English as a second or foreign language (ESL/EFL), this course focuses on the nature of language acquisition. An overview of first language acquisition, including the written language, is followed by an examination of factors involved in the acquisition of an additional language by older learners.

**5651 International Comparative Education I**

3 credit hours

Examination of concepts underlying a comparative understanding of selected educational systems around the world, including research methodologies used in the field. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and language learning, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

**5652 International Comparative Education II**

3 credit hours

A continuation of IDST 5651. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

**5656 Curriculum and Instruction in Teaching English as a Second or Foreign Language I**

3 credit hours

Intended for teachers of English as a second or foreign language (ESL/EFL), this course focuses on the curriculum and methods used in teaching English to non-native speakers both in Canada and abroad. Focus is on analysis and evaluation of selected curricular approaches and pedagogical methods in foreign language teaching.

**5657 Curriculum and Instruction in Teaching English as a Second or Foreign Language II**

3 credit hours

A continuation of EDUC 5656. Topics may include trends and issues in foreign language education, and critical examination of selected approaches, e.g. teaching for communication, content-based ESL/EFL.

**5658 Pedagogical Grammar for ESL Teachers: Theory and Practice**

3 credit hours

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.

**5659 Seminar and Practicum in Teaching English as a Second/Foreign Language**

3 credit hours

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.

**5661 Language, Culture, and Education**

3 credit hours

This course focuses on the personal aspects of intercultural communication - what happens when people from different cultures interact face-to-face. Topics include foundational issues of culture and communication including culture shock, adjustment, re-entry shock, verbal and non-verbal communication, gender, race and class, children's ethnic socialization, the status of families as cultural units, and multicultural and anti-racist education. The course emphasizes the development of strategies for successful intercultural education.

**5673 Comparative Perspectives on Innovations in Education – Reforms**

3 credit hours

This course will assess, compare and contrast variations and reforms to mainstream educational systems, and will emphasize the conditions out of which such reforms are initiated. Special emphasis will be given to contrasting public systems of education with privatization initiatives, together with public/private partnerships and changes that affect access to education, gender and education, and so on. This course will draw on the considerable body of literature and concrete case studies throughout the world; however, considerable emphasis will be given to examples and case studies from regions or sub-regions of Asia, Africa, Latin America and the Middle East/North Africa.

**5674 Comparative Perspectives on Innovations in Education – Alternatives**

3 credit hours

Introduction to concepts and analysis underlying a comparative understanding of selected educational systems around the world. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international education funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world.

**5695 - 5697 Directed Study in Education**

3 credit hours

Prerequisite: Permission of the Program Coordinator

Independent study courses organized by a faculty member in consultation with a student. They enable a student to pursue independent research in a specific theme in education that is not normally covered by regular course offerings. A major paper or research report is required.

**5691 - 5693 Selected Topics in Education**

3 credit hours

These courses will investigate in some depth a particular topic or set of topics in Education. Specific topics are related to research interests of faculty members and visiting scholars.

**6676 Education and Development I: Perspectives**

3 credit hours

Introduction to concepts and analysis underlying a comparative understanding of selected educational systems around the world. The course will emphasize comparisons between mainstream educational understandings in the developed world, the agenda of international education organizations, international educational funders, and the implementation of educational systems, both public and private. Specific reference will be made to access to education, curriculum and culture, gender and education, and similar issues with an emphasis on examples from the so-called developing world in Asia, Africa, Latin America and the Middle East/North Africa.

**6677 Education and Development II: Policies and Practices**

3 credit hours

A continuation of EDUC 6676. Examination and comparison of educational policies in selected countries or regions of the world with a view to assessing educational outcomes, education processes and the relation between education, the public sector, the private sector and international organizations, and the effect of such policies worldwide. Emphasis is on Asia, Africa, Latin America and the Middle East/North Africa.

**6691 - 6697 Directed Study in Education**

3 credit hours

These courses will investigate in some depth a particular topic or set of topics in Education. Specific topics are related to research interests of faculty members and visiting scholars.

**6695 - 6697 Directed Study in Education**

3 credit hours

Prerequisite: Permission of the Program coordinator.

Independent study courses organized by a faculty member in consultation with a student. They enable a student to pursue independent research in a specific theme in education that is not normally covered by regular course offerings. A major paper or research report is required.

## Graduate Programs: Research Centres

---

Senate-approved Research Centres at Saint Mary's University can host graduate programs. The CN Centre for Occupational Health and Safety offers the Master of Applied Health Services Research (MAHSR).

---

## Master of Applied Health Services Research

---

Program Coordinator (Acting): L. Kocum

Participating faculty members and their home Departments:

A. Day	Psychology
M. Fleming	Psychology
L. Francis	Psychology
K. Kelloway	Psychology
L. Kocum	Psychology
C. Loughlin	Management
M. McKee	Management
D. Gilin Oore	Psychology
P. Twohig	Atlantic Canada Studies
M. Zhang	Finance, Information Systems, & Management Science

### General Information

The Master of Applied Health Services Research (MAHSR) Program is a research-based, thesis-oriented, multidisciplinary degree program hosted by the CN Centre for Occupational Health and Safety, a Senate-approved research centre of Saint Mary's University. MAHSR program is a collaborative venture that is delivered through four universities: Saint Mary's University, University of Prince Edward Island (UPEI), University of New Brunswick (UNB) and Memorial University of Newfoundland (MUN). The MAHSR is nested within a cooperative unit, The Atlantic Regional Training Centre (ARTC) that helps to coordinate activities among the participating universities and also facilitates building research capacity in applied health services in Atlantic Canada.

Its interdisciplinary approach to issues in health services research, prepares students with the necessary skills to tackle key issues in health service policy, administration, and delivery. This program is intended for students with little or no background in the healthcare field, and little or no experience in conducting research. Since this program is offered through multiple institutional partners, synchronous and asynchronous web-based courses are used to provide a similar learning environment with standardized course content. Generally, a student's study time will take place in front of a computer using the Desire2Learn platform (based out of Memorial University of Newfoundland) to access course information, submit assignments and interact with the instructor and other students. Some courses may incorporate weekly teleconferencing or Elluminate Live sessions.

The academic objectives of the Master of Applied Health Services Research are to provide graduate education at the Master's level in applied health services research from an

interdisciplinary perspective; advance reciprocal arrangements between academic communities and decision-maker organizations which facilitate the use of evidence in policy decisions affecting the health of Atlantic Canadians; and be the platform through which interchanges between decision-makers and health researchers, from academic communities, generate policy relevant research. The learning outcomes of this program include, development of a critical mass of health services researchers who conduct applied health services research throughout Atlantic Canada; proficiency in interdisciplinary methodologies, and an understanding of how to communicate research to decision-makers such that it is used in public policy development.

### Admission Requirements

The MAHSR follows the general admission requirements and procedures of the Faculty of Graduate Studies and Research as outlined in Section 2 of the Graduate Academic Calendar.

In addition, in order to be eligible to make an application for admission to the Program, applicants must have at a minimum:

- A Bachelor's degree of four years or a Bachelor's with Honours
- A minimum GPA of 3.3 (on a 4.3 scale; equivalent to a "B+" on the undergraduate grading scheme at Saint Mary's University) in their Bachelor's degree.

### Financial Support

Full-time students admitted to the program may be eligible for funding administered by Saint Mary's University. Funding recommendations are made by the program. All successful applicants are automatically considered for graduate funding. Students are encouraged to apply for external scholarships. In addition, student may be eligible for teaching assistantships offered through contributing departments and the CN Centre for Occupational Health and Safety.

### Program Requirements

**Note: Students not registered in any course work but working on their Program/Thesis must register in Program Continuation (FGSR 9000) for every semester (including summer) in which they are in their graduate program.**

All of the following courses are required courses in their normal progression. The minimum time-for-completion of the program is six terms (two full academic years). Note that during the summer of their first year, students undertake

a research residency with a decision-making organization. This experience assists students in understanding how research is used in decision making, provides an opportunity to apply theory in a practical setting, and explores the merits of whether projects undertaken could be more fully developed as potential theses research areas. Students should consult the ARTC Residency Handbook for specific information on residency placements and procedures. Students are also required to take part in end-of-term workshops.

University of Newfoundland, Saint Mary’s University, University of New Brunswick, and University of Prince Edward Island) gather together for an online orientation session. In the same week, there is also a face-to-face orientation, where students from their respective university meet to discuss the program. During these sessions, students receive clarification on the MAHSR program, are introduced to faculty and courses, and receive direction on research interests. Two online workshops are also organized at the end of the fall and winter terms allowing students and faculty to collaborate with health services decision makers.

The MAHSR begins the first week in September, when students and staff from all four universities (Memorial

*Residency*

During the summer of their first year, students undertake a research residency with a decision-making organization.

at the end of the fall and winter terms allowing students and faculty to collaborate with health services decision makers.

Term 1 (Fall)	<i>Courses</i> 1. AHSR 6001 - Canadian Health System 2. AHSR 6002 - Ethical Foundations of Applied Health Research 3. AHSR 6003 - Research & Evaluation Design and Methods
	<i>Workshop</i> Workshop with Decision-Making Partners; Example Theme: Critical Appraisal and Research Ethics
Term 2 (Winter)	<i>Courses</i> 4. AHSR 6004 - Determinants of Health 5. AHSR 6005 - Policy and Decision Making 6. AHSR 6006 - Qualitative and Quantitative Methods
	<i>Workshop</i> Workshop with Decision-Making Partners; Example Theme: Policy and Decision-Making
Term 3 (Summer)	Residency Placement Period
Term 4 (Fall)	<i>Courses</i> 7. AHSR 6007 - Knowledge Transfer and Research Uptake 8. AHSR 6008 - Advanced Qualitative Methods or AHSR 6009 - Advanced Quantitative Methods
	<i>Workshop</i> Workshop with Decision-Making Partners; Example Theme: Communication and Dissemination
Semester 5 and Semester 6 (Winter and Summer)	Thesis completion, defense and public presentation

This experience assists students in understanding how research is used in decision making, provides an opportunity to apply theory in a practical setting, and explores the merits of whether projects undertaken could be more fully developed as potential theses research areas. Students should consult the ARTC Residency Handbook for specific information on residency placements and procedures. ARTC students have found residency placements with the departments of health and other government, non-government, and academic organizations in the Atlantic provinces and across Canada.

*Workshops*

ARTC begins each school year at the end of August when students and staff gather for a 2-3 day orientation session. Students receive clarification on the ARTC program, are introduced to faculty and courses, and receive direction on research interests. Two online workshops are also organized

Fall Workshop  
Theme (1st year students) - Critical Appraisal and Research Ethics  
Theme (2nd year students) - Communication and Dissemination

Winter Workshop  
Theme - Policy and Decision Making  
(2nd year students do not attend.)

Each event is hosted by one of the partner universities.

*Thesis*

Students will be required to conduct a piece of scholarly research which is to be defended before an academic audience and members drawn from the broader health community. This experience will be designed to develop an understanding of how knowledge is transferred between the

academic community and decision-makers, and to provide hands-on research and decision-making experience. See Section 2 of the Graduate Academic Calendar for more details on regulations and requirements for thesis at Saint Mary's University.

## **Graduate Courses**

### **Applied Health Services Research (AHSR)**

#### **6001 Canadian Health System**

3 credit hours

An overview of the history of the Canadian Health System and its current organization, as well as an overview of other international health system models. The key concepts that will be explored in the Canadian Health System include legislation, institutions, funding structures, human resources, and guiding values. Other issues examined will be the factors affecting health services utilization, the measurement of health outcomes and their use for accountability, and a review of health information systems in Canada and the structures and instruments within them. Finally, current issues and trends relating to the Canadian Health Care system will be reviewed.

#### **6002 Ethical Foundations of Applied Health Research**

3 credit hours

This course will acquaint students with the ethical basis of health research, as well as the substantive issues that arise at the macro, meso and micro levels in the design and conduct of research. A variety of approaches to ethical decision-making will be surveyed, with particular attention given to how various approaches might apply in the context of Atlantic Canada. Standard topics will be explored in this course such as informed consent, privacy and confidentiality of health information, and conflicts of interest. Special attention will be given to issues of rural/urban split, respect for the integrity of communities, and the potential abuse of expert or professional authority.

#### **6003 Research & Evaluation Design and Methods**

3 credit hours

Students will become familiar with the research process with the basic aim of developing skills to critically evaluate the work of others and to understand possible approaches in the design of their own research projects. The emphasis will be on formulating research questions and determining strategies that may be used to address a particular research theme; understanding how various qualitative and quantitative research techniques may be used to address research questions that the students have posed. A broad research topic will be chosen and students will target their work towards developing research questions and designing research plans to address specific aspects of this theme.

#### **6004 Determinants of Health: Healthy Public Policy**

3 credit hours

This course will explore the development of the philosophy of the determinants of health, and identify the determinants of health and their relationship with health status. As the course unfolds, students will gain an understanding of the

philosophical underpinnings, as well as understanding their inter-relationships. An understanding of the complexity of developing healthy public policy that addresses multiple determinants of health will be developed by students, as well as the consideration of the implications of policy from the perspective of the determinants of health.

#### **6005 Policy and Decision Making**

3 credit hours

Students will explore the process of how Canadian Health Policy is developed, implemented and evaluated. This course will also assist in building skills in the areas of research approach, critical appraisal, policy synthesis, and briefing notes. The course will follow a case based approach to understand the implications of political, social, ethical, and economic factors/actors/stakeholders.

#### **6006 Qualitative and Quantitative Methods**

3 credit hours

This course is divided into two broad sections. In the first section, the course will explore an introduction to qualitative and quantitative approaches. This part will highlight some of the critical issues involved in conducting applied health related research. The second section will be an overview of statistical techniques that are appropriate to health related research. It will provide students with some basic building blocks that they can use to carry out their own research and critically evaluate the work of others. Students will be introduced to SPSS in the Quantitative Methods section (this will be used extensively in the Statistics section).

#### **6007 Knowledge Transfer and Research Uptake**

3 credit hours

Exploration of the facilitators and barriers of using evidence in decision-making, as well as developing the students' understanding of the conceptual, philosophical, and theoretical underpinnings of knowledge transfer and research uptake. Students will also learn how to create ongoing/sustainable linkages with decision makers and how to share research findings with academic and non-academic audiences. Topics explored include Evidence Based Decision-Making, barriers and facilitators, and why evidence is not used in decision-making. The course will look at how to encourage, decision-makers to use research evidence through behavioural change, social marketing, and sustainable linkages.

#### **6008 Advanced Qualitative Methods**

3 credit hours

Students will build on the foundation developed in AHSR 6006 with a more in-depth examination of ontological and epistemological assumptions underpinning the various qualitative research approaches and developing requisite skills for completing qualitative research. Students will gain practical experience in interviewing, participant observation and analysis of qualitative data. Students will also develop an appreciation of how to write grant proposals using qualitative approaches and continue to refine their ability to critique qualitative research. Topics explored will include many of those addressed in AHSR 6006 but the focus will shift to comparing and contrasting research issues for various qualitative approaches versus comparing and contrasting them to quantitative research.

**AHSR 6009 Advanced Quantitative Methods**

3 credit hours

This course will expose students to a variety of more advanced quantitative and statistical approaches to research methodology. The two main purposes of the course are to provide students with the tools to conduct advanced quantitative empirical research, and to further develop their ability to critically evaluate the work of others. Students will learn to examine issues and develop research strategies to begin to identify and answer important topics that need to be researched and students will design a realistic appraisal of what can be achieved and what cannot, given resource constraints.

# **Section**

# **4**

**Academic Officers and Faculty  
Officers and Faculty Emeriti  
Administrative Officers  
Awards to Faculty and Staff**

# Academic Officers and Faculty

## Academic Officers

### Vice-President, Academic and Research

**Butler, Malcolm N.**, B.Sc. (Hons.) (McMaster), Ph.D. (California Institute of Technology), Professor of Astronomy and Physics

### Faculty of Arts

**MacDonald, Margaret**, B.A. (Hons.) (Saint Mary's), Ph.D. (Oxford), Dean of Arts and Professor of Religious Studies

**Naulls, Donald J.**, B.A. (Hons.), M.A. (Wilfrid Laurier), Ph.D. (York), Associate Dean and Associate Professor of Political Science

### Sobey School of Business

**Bradshaw, Patricia J.**, B.Comm. (Queen's), Ph.D. (York), Dean and Professor of Management

### Faculty of Science

**Smith, Steven**, B.A. (Hons.) (Bishops), M.A., Ph.D. (Queen's), Professor of Psychology and Dean of Science

**Sarty, Adam J.**, B.Sc. (Eng.), Ph.D. (Saskatchewan), Professor of Astronomy and Physics and Associate Dean of Science – External & Student Affairs

**Singfield, Kathy L.**, B.Sc. (St. Francis Xavier), M.Sc., Ph.D., (McGill), Associate Professor of Chemistry and Associate Dean of Science - Curriculum

### Faculty of Graduate Studies and Research

TBA

## Faculty

**Abdul-Masih, Marguerite**, B.A. (Bryn Mawr College), M.A., Ph.D. (Johns Hopkins University), M.Div. (Saint Michael's College, Toronto), S.T.L. (Regis College, Toronto), Ph.D. (Saint Michael's College/Regis College, Toronto), Associate Professor of Religious Studies

**Aftenas, Marion S.**, B.A., M.A. (Manitoba), Ph.D. (Alberta), Adjunct Professor of Psychology

**Agbeti, Michael**, B.Sc. (Hons.) (Ghana), M.Sc. (Brock), Ph.D. (Queens), Adjunct Professor of Biology

**Ahmadsimab, Alireza**, B.Sc. (Iran University of Science and Technology), MBA (Sharif University of Technology), M.A., Ph.D. (ESSEC Business School, Paris), Ph.D., Assistant Professor of Management.

**Akbari, Ather H.**, B.Sc., M.B.A. (Karachi), M.A., Ph.D. (Simon Fraser), Professor of Economics

**Akiyama, Yasushi**, B.Sc (Laval U), B.Eng (Laurential U), M.Sc. (Saint Mary's), Ph.D. (Dalhousie), Adjunct Professor of Mathematica and Computing Science

**Alfoldy, Sandra**, B.F.A. (Victoria), M.A., Ph.D. (Concordia), Adjunct Professor of Women and Gender Studies

**Al Zaman, Ashraf**, B.S., B.A., M.A. (Ohio University), M.Sc., Ph.D. (KGSM, Purdue), Associate Professor of Finance

**AmirKhalkhali, Saleh S.**, B.A. (Hons.) (Shiraz), M.A., Ph.D. (Dalhousie), Professor of Economics

**Anderson, Bruce**, B.Sc. (Hons.) (Dalhousie), B.A. (Distinction) (Mount Saint Vincent), B.F.A. (NSCAD), M.T.S. (Harvard), LL.B. (Dalhousie), Ph.D. (Edinburgh), Professor of Commercial Law

**Ames, Doreen E.**, B.Sc.(Hons) (Waterloo), M.Sc., Ph.D. (Carleton), Adjunct Professor of Geology

**Ames, Friedhelm A.**, M.Sc., Ph.D. (Johannes Gutenberg U), Adjunct Professor of Astronomy & Physics

**Anis, Azza**, B.A. (Khartoum), M.A. (University of Lyon), M.A. (Saint Mary's), D.E.A., Ph.D. (Sorbonne, Paris), Adjunct Professor of Women and Gender Studies

**Ansell, Robert N.**, B.A. (Cambridge), Ph.D. (Glasgow), Assistant Professor of Philosophy

**Ansong, Granville**, B.A. (Hons.) (Ghana), M.A. (Queen's), M.Acc. (Waterloo), Ph.D. (Queen's), Assistant Professor of Accounting

**Arteaga, Andres**, B.Sc. (Universidad de Antioquia), Master Intercultural Management (ICHEC Bruxellers, Belgium), D.E.A. (Psychoanalysis and Clinics) (University de Paris VIII Saint Denis), PhD (Ottawa ), Assistant Professor of Spanish

**Arya, Pyare L.**, B.A., M.A., Ph.D. (Delhi), Professor of Economics

**Asp, Elissa**, B.A., M.A., Ph.D. (York), Professor of English and Coordinator of Linguistics Program

**Attig, Najah**, B.A. (I.H.E.C.), M.B.A., Ph.D. (Laval), Associate Professor of Finance and Canada Research Chair in Finance

**Austin, Roby A. E.**, B.Sc., M.Sc., Ph.D. (McMaster), Associate Professor of Astronomy and Physics

**Avdulov, Alexandre**, B.A., M.A. (Moscow State U), Ph.D. (Russian Academy of Sciences), Associate Professor of Japanese and Asian Studies.

### 134 Academic Officers and Faculty

---

**Aydede, Yigit**, BS (Istanbul U), MBA, Ph.D. (U of Delaware), Associate Professor of Economics

**Azad, Nader**, B.Sc., M.Sc. (Iran U of Science & Technology), Ph.D. (U of Technology, Tehran), Assistant Professor of Management Science

**Bain, Keith**, Ph.D., Adjunct Professor of Mathematics and Computing Science

**Bannerjee, Rohini**, B.Sc., MA (Dalhousie), Ph.D. (Western), Associate Professor French and Chairperson, Department of Modern Languages and Classics

**Barber, Colleen A.**, B.Sc. (Hons.) (Guelph), M.Sc. (Manitoba), Ph.D. (Queen's), Professor of Biology

**Barbosa, Rosana**, B.A. (Universidade Santa Ursula), M.A., Ph.D. (Toronto), Associate Professor of History

**Barclay, Alison E.**, B.A. (Alberta), M.A., Ph.D. (Toronto), Assistant Professor of Classics

**Barr, Mark**, BA, LLB (U of Victoria), M.Phil (Oxford), Ph.D. (Vanderbilt U), Associate Professor of English

**Bartlett, Brian**, B.A. (New Brunswick), M.A. (Concordia), Ph.D. (Montreal), Professor of English

**Basquill, Sean P.**, B.A. (Concordia), M.Sc. (Acadia), Adjunct Professor of Biology

**Bateman, David H.**, B.B.A. (New Brunswick), M.B.A. (Dalhousie), C.A.-I.T., Associate Professor of Accounting and Program Director of Master of Business Administration (CPA)

**Bateman, Milford**, B.A.(Hons), (Leeds Metropolitan U), Ph.D. (U of Bradford, UK), Adjunct Professor of International Development Studies

**Beanlands, Sara J.**, B.A. (HIST) (SMU), M.A. (HIST) (Dalhousie), Adjunct Professor of Anthropology

**Beaubien, Louis**, BSc, BA (Dalhousie), M.B.A. (Saint Mary's), Ph.D. (Western Ontario), CMA, Adjunct Professor of Master of Technology Entrepreneurship and Innovation

**Beaulé, Sophie**, B.A., M.A., Ph.D. (McGill), Professor of French

**Beaupré, Charles P.**, B.A., M.A., Ph.D. (McGill), Associate Professor of Japanese, Chinese and Asian Studies

**Bello, Walden**, B.A., (Ateneo de Manila), M.A., Ph.D. (Princeton), Adjunct Professor of International Development Studies

**Bennett, Philip**, B.Sc. (Simon Fraser), M.Sc., Ph.D. (British Columbia), Adjunct Professor of Astronomy and Physics

**Bjornson, Susan**, B.Sc. (Hons.) (Guelph), Ph.D. (Alberta), Chairperson and Professor of Biology

**Bijos, Leila**, M.A., Ph.D. (Universidade de Brasília), Adjunct Professor, Department of Sociology and Criminology

**Black, David**, B.A. (Hons) (Trent), MA, Ph.D. (Dalhousie), Adjunct Professor of International Development Studies

**Boabang, Francis**, B.A., M.Sc. (Ghana), M.A. (Saskatchewan), Ph.D. (Simon Fraser), Professor of Finance and Chairperson of Finance, Information Systems and Management Science

**Bouman, O. Thomas**, Diplom-Forstwirt, Ph.D. (U Gottigen), Adjunct Professor of Geography & Environmental Studies

**Bourgeois, David**, B.Ps., (Hons) (Moncton), M.A. (Psyc) (Laval), Ph.D. (Maine), Associate Professor and Undergraduate Coordinator of Psychology

**Bowles, Paul**, B.Sc (Southampton), M.A. (Sussex), Ph.D.(London School of Economics), Adjunct Professor of International Development Studies.

**Bowes, Matthew J.**, B.Sc. (High Dist) (Toronto), Ph.D. (Queen's), Adjunct Professor of Forensic Sciences

**Bowron, Tony M.**, B.Sc., M.Sc. (Dalhousie), Adjunct Professor of Environmental Science

**Bradshaw, Patricia J.**, B.Comm. (Queen's), Ph.D. (York), Dean of Sobey School of Business and Professor of Management

**Broders, Hugh**, B.Sc. (Hons.) (Acadia), M.Sc. (Memorial University of Newfoundland), Ph.D. (New Brunswick), Adjunct Professor of Biology

**Brosseau, Christa L**, B. Sc. (comb Hons) (Dalhousie), M.Sc. (Acadia), Ph.D. (Guelph), Associate Professor of Chemistry

**Brown, Alan**, BA (U of New Orleans), MA (u of Amsterdam), Ph.D. (U of California). Adjunct Professor of Women's Studies

**Brown, Blake**, BA (Acadia), MA (Toronto), LLB (Toronto), M.A. (York), Ph.D. (Dalhousie), Associate Professor of History and Graduate Coordinator of Atlantic Canada Studies

**Bunjun, Benita**, B.A., M.A., Ph.D., (UBC), Assistant Professor of Sociology and Criminology

**Bush, Peter**, B.A. (Hons) (Laurentian), M.Sc.F. (Lakehead U), Ph.D. (Western), Adjunct Professor of Geography & Environmental Studies

**Byers, Michele**, B.F.A. (Concordia), B.S.W., M.S.W. (McGill), Ph.D. (Toronto) Professor of Sociology and Graduate Coordinator Women and Gender Studies

**Calder, Todd**, B.A. (Dalhousie), M.A. (Calgary), Ph.D. (Western), Associate Professor of Philosophy

**Cameron, James E.**, B.A. (Queens), M.A., Ph.D. (York), Associate Professor of Psychology

**Cameron, John**, B.A. (Hons) (Dalhousie), M.A. (Simon Fraser), Ph.D. (York), Adjunct Professor of International Development Studies

**Campbell, Linda M.**, B.Sc (Hons)., M.Sc. (Alberta), Ph.D. (Waterloo), Professor of Environmental Science

**Carroll, Steven R.**, B.A.H., M.A., Ph.D. (Carleton), Lecturer in Psychology

**Carroll, Wendy**, B.A. (St. Francis Xavier), MBA, PhD (Saint Mary's), Associate Professor of Management and EMBA Program Director

**Carver, Ashley**, B.A. (Regina), M.A. (Katholieke – Belgium), Ph.D. (Melbourne), Assistant Professor of Sociology & Criminology

**Cary, Henry C.**, B.A. (Hons. with distinction) (Wilfrid Laurier), M.A. (Memorial U), Ph.D. (RMCC, Kingston), Adjunct Professor of Anthropology

**Catano, Victor M.**, B.S. (Drexel), M.S., Ph.D. (Lehigh), Professor of Psychology

**Cauville, Joelle**, M.A. (Paris), M.A., Ph.D. (British Columbia), Professor of French

**Chandler, Vincent**, B.A. (Hons) (McGill), M.A. (U of Bonn), Ph.D. (Queen's), Assistant Professor of Economics

**Chapman, Scott**, B.Sc., M.Sc., Ph.D. (U of BC), Adjunct Professor of Astronomy and Physics

**Charles, Tony**, B.Sc. (Hons.) (Carleton), Ph.D. (British Columbia), Professor of Management Science and Environmental Science and Director of the School of the Environment

**Chen, Liqiang**, B.Bus. (Sichuan), M.App.Econ. (Cincinnati), Ph.D. (in progress) (McMaster), Lecturer in Finance

**Chung, Edward Y.J.**, B.A., M.A., Ph.D. (Toronto), Adjunct Professor of Religious Studies

**Clarke, David**, B.Sc., M.Sc. (Queen's), Ph.D. (New Mexico), Professor of Astronomy and Physics

**Closson, Leanna M.**, B.A. (Hons.) (Saskatchewan), M.A. (Carleton), Ph.D. (UBC), Assistant Professor of Psychology

**Clyburne, Jason A. C.**, B.Sc. (Hons.) (Acadia), Ph.D. (Dalhousie), Professor in Environmental Science and Chemistry, Program Coordinator of Environmental Science, Canada Research Chair [Tier II] in Environmental Science & Materials

**Codignola-Bo, Luca**, Laurea (Modern History), Lettere e Filosofia (Università di Roma), Ph.D., Adjunct Professor of History

**Collins, Rachael**, H.B.A., M.A. (Lakehead U), Ph.D. (U of Saskatchewan), Assistant Professor of Sociology and Criminology

**Conrad, Catherine T.**, B.A. (Hons.) (Saint Mary's), M.E.S., Ph.D. (Laurier), Professor of Geography and Environmental Studies, Coordinator, Bachelor of Environmental Studies

**Conrad, Nicole**, B.A. (Hons.) (Saint Mary's), M.A., Ph.D. (McMaster), Associate Professor of Psychology and Linguistics

**Cormack, Julie L.**, B.Sc. (Hons.) (Trent), M.A. (U of Alberta), Ph.D. (U of Liverpool), Adjunct Professor of Anthropology

**Corrigan, Lawrence**, Dip. P.A., B.Comm. (Dalhousie), M.B.A. (Saint Mary's), Dip. in App. Bus. (Ryerson), F.C.G.A., F.C.C.A., Ph.D. (Candidate – Saint Mary's), Assistant Professor of Accounting

**Cote, Daniel**, B.Sc. (HEC Montreal), Master Agribusiness & Economics, Ph.D. (Louisiana State), Adjunct Professor of MMCCU Program

**Cottreau-Robins, Catherine**, BA (Saint Mary's), MA, Ph.D (Dalhousie), Adjunct Professor of Anthropology

**Cottrell, Barbara**, B.A. (Hons) (MSVU), B.Ed, M.A. (Dalhousie), Adjunct Professor of Sociology and Criminology

**Creelman, Valerie**, B.A. (Hons.) (Mount Saint Vincent University), M.A. (Dalhousie), Ph.D. (Waterloo), Associate Professor of Communications

**Crocker, Diane**, B.A. (Memorial), M.A., Ph.D. (York), Professor of Criminology and Associate Dean of Graduate Studies

**Crooks, Shelagh**, B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Edinburgh), Professor of Philosophy and Education

**Dai, Jie**, B.Sc., M.A. (Nankai), MBA, Ph.D. (Laval), Associate Professor of Finance

**Dalziel, Anne**, B.Sc. (Acadia), M.Sc. (Queen's), Ph.D. (UBC), Assistant Professor of Biology

**Dansereau, David**, B.Sc., PhD (Alberta), Lecturer in Biology

**Dansereau, Suzanne**, B.A., M.A. (McGill), Ph.D. (Québec), Associate Professor of International Development Studies

**Dar, Atul A.**, B.A. (Hons.), M.A. (Delhi), M.A., Ph.D. (McMaster), Professor of Economics

### 136 Academic Officers and Faculty

---

**Darr, Wendy A.**, B.A. (Hons) (Concordia), M.A. (Saint Mary's), Ph.D. (Concordia), Adjunct Professor of Psychology

**Davis, Peter**, B.A. (Hons) (U of Sussex), M.A. (dist), Ph.D., (U of Leicester), Adjunct Professor of Master of Management – Co-operatives & Credit Unions

**Dawson, Robert J. M.**, B.Sc. (Hons.) (Kings College, Dalhousie), Cert. of Advanced Study in Mathematics, Ph.D. (Cambridge), Professor of Mathematics and Computing Science

**Day, Arla L.**, B.A. (Manitoba), M.A.Sc., Ph.D. (Waterloo), Professor of Psychology

**Defert, Jean Jacques**, B.A., (U Francois Rabelais, Tours), M.A., Ph.D. (U Alberta), Assistant Professor of French

**De Fuentes, Claudia**, B.Sc., M.Comm, Ph.D. (Universidad Autónoma Metropolitana-Xochimilco), Associate Professor and Co-Chair of Management

**Dilmaghani, Maryam**, L.L.B. (Tehran U), L.L.M., M.A. (Montpellier, France), M.Sc.(Montreal), L.L.D. (Montpellier, France), Ph.D. (McGill), Assistant Professor of Economics

**Dixon, Paul S.**, B.A. (New Brunswick), M.Math., Ph.D. (Waterloo), Professor of Management Science

**Dobrowolsky, Alexandra Z.**, B.A. (Hons.) (Toronto), M.A. (Dalhousie), Ph.D. (Carleton), Professor of Political Science

**Dodds, J. Colin**, B.A. (Open University), B.Sc. (Hull), M.A., Ph.D. (Sheffield), Professor of Finance and Program Director of Master of Finance Program

**Dong, Zhongmin**, B.Sc. (Shaanxi), M.Sc. (Peking), Ph.D. (Carleton), Professor of Biology

**Doucet, Marc**, B.A. (Moncton), M.A., Ph.D. (Ottawa), Associate Professor and Chairperson of the Department of Political Science

**Driscoll, Catherine**, B.A. (Hons.) (Toronto), M.B.A. (Dalhousie), Ph.D. (Queen's), Professor and Co-Chair of Management of Management

**Driss, Hamdi**, B.A. (U of Sfax, Tunisia), MBA (Finance), M.Sc. (Financial Engineering) (Laval), Ph.D. (York), Assistant Professor of Finance

**Druwe, Ulrich**, B.A., M.A., Ph.D., (U of Munich), Adjunct Professor of Education

**Duguid, Fiona**, B.A. (U of BC), M.Ed., Ph.D (U of T), Adjunct Professor of Master of Management – Co-operatives & Credit Unions

**Dutcher, Stephen**, B.A., M.A., Ph.D. (New Brunswick), Adjunct Professor of Master of Management – Cooperatives and Credit Unions

**Edgar, Scott**, B.A. (Hons.) (UBC), M.A. (Dalhousie), Ph.D. (U of Pennsylvania), Associate Professor of Philosophy and Graduate Coordinator of Philosophy

**Enns, Esther E.**, B.S.L. (Hons.) (Laurentian), M.A. (McMaster), M. Ed., Ph.D. (Toronto), Professor German and Linguistics

**Erickson, Paul A.**, B.A. (Michigan), M.A. (Indiana), M.A. (Wayne State), Ph.D. (Connecticut), Professor and Chairperson of the Department of Anthropology

**Ervine, Kathryn**, B.A. (Hons.) (Toronto), M.A. (Guelph), Ph.D. (Toronto), Associate Professor of International Development Studies and Political Science, Graduate Coordinator of International Development Studies

**Fan, Hong**, B.A. (U of International Business and Economics, Beijing), M.ACCT (Brock), Ph.D. (York), Assistant Professor in Accounting

**Farrell, Ellen**, B.P.R. (Mount Saint Vincent), M.B.A. (Saint Mary's), Ph.D. (Nottingham), Professor of Management

**Field, Richard**, B.A. (Eastern), M.A. (Toronto), Ph.D. (Dalhousie), Adjunct Professor of Atlantic Canada Studies

**Finbow, Arthur S.**, B.Sc., M.A. (Dalhousie), Ph.D. (Washington), FTICA, Professor and Co-Chairperson of Mathematics and Computing Science

**Finbow-Singh, Wendy**, B.Sc. (Hons.) (Saint Mary's), M.Sc. (Dalhousie), Ph.D. (Calgary), Associate Professor of Mathematics and Computing Science

**Findlay, Tammy**, BA (Western U), MA, Ph.D (York), Adjunct Professor of Women's Studies

**Fisher, Derek J.**, B.Sc. (U of Ottawa), M.Sc., Ph.D., (Carleton U), Adjunct Professor of Psychology

**Fisher, Maryanne**, B.A. (Hons.) (York), M.Sc. (McMaster), Ph.D. (York), Professor of Psychology

**Fleet, Gregory J.**, B.A., M.A., Ph.D. (Western), Adjunct Professor of Master of Management – Co-operatives & Credit Unions

**Fleming, Mark**, M.A., M.Sc. (Aberdeen), Ph.D. (The Robert-Gordon University, Aberdeen), Professor of Psychology

**Foladori, Guillermo R.**, B.A. (Escuela Nacional de Antropología e Historia), M.A., Ph.D. (Mexico), Adjunct Professor of International Development Studies

**Fowler, Jonathan**, B.A. (Hons.) (Saint Mary's), B.Ed. (Acadia), M.A. (Sheffield), Ph.D. (Oxford), Associate Professor of Anthropology

**Fox, Michael**, B.A., M.A. (Western), Dip.Ed., Ph.D. (McGill), Adjunct Professor of the Department of Geography & Environmental Studies

**Francis, Lori**, B.Sc. (St. Francis Xavier), M.Sc. (McMaster), Ph.D. (Guelph), Professor and Graduate Coordinator of Psychology

**Franz-Odendaal, Tamara**, B.Sc. (Hons.), M.Sc., Ph.D. (Cape Town), Adjunct Professor of Biology

**Frasier, Timothy R.**, B.Sc. (North Dakota), Ph.D. (McMaster), Associate Professor of Biology and Forensic Science, Program Coordinator of Forensic Science

**Freeman, Kirrily**, B.A. (Guelph), M.A. (Edinburgh), Ph.D. (Waterloo), Associate Professor and Chairperson of the Department of History

**Fridell, Gavin**, B.Sc., M.A. (Manitoba), Ph.D. (York), Associate Professor of and Political Science, International and Development Studies and Canada Research Chair in International Development Studies

**Fu, Ailan**, B.A. (Beijing Normal Univ), M.A. (Central University for Nationalities, Beijing), Ph.D. (Beijing Normal Univ Shuhai), Adjunct Professor of Education

**Fullerton, Gordon L.**, B.Comm. (Mount Allison), M.B.A. (Dalhousie), Ph.D. (Queen's), Professor and Acting Chairperson of Marketing and Co-Chair of Management

**Gallo, Luigi**, B.Sc., (U of Calgary), M.Sc. (San Diego State U), Ph.D. (Ludwig-Maximilians U), Professor of Astronomy and Physics

**Gamble, Donald S.**, B.Sc., M.Sc. (Dalhousie), Ph.D. (Buffalo), Adjunct Professor of Chemistry

**Gannett, Lisa A.**, B.Sc., M.A., Ph.D. (Western Ontario), Professor of Philosophy

**Gaon, Stella**, B.A., M.A. (Concordia), Ph.D. (Toronto), Associate Professor of Political Science

**Garrido Varas, Claudia E.**, B.Sc. (U of Chile), M.Sc. (U of Dundee), Ph.D. (Teesside University), Adjunct Professor of Forensic Science

**Gauthier, David**, B.A. (Calgary), M.A., Ph.D. (Waterloo), Professor of Geography

**Gibson, Ryan F.**, B.A. (Hons) MRD, (Brandon U), Ph.D. (Memorial U), Adjunct Professor of Geography

**Giles, Philip T.**, B.Sc. (Hons.), M.Sc. (McMaster), Ph.D. (Calgary), Associate Professor of Geography & Environmental Studies

**Gilin Oore, Debra A.**, B.A. (Northern Michigan), Ph.D. (Missouri), Professor of Psychology

**Gleeson, Sarah A.**, B.A. (Trinity, Dublin), Ph.D. (Imperial College, London), Adjunct Professor of Geology

**Gómez, María M.**, B.A. (Pontificia Universidad Javeriana, Bogotá), M.A., Ph.D., (New School for Social Research), Assistant Professor of Sociology and Criminology

**Gonick, Marnina**, BA (U of M), MA (McGill), Ph.D. (Ontario Inst. for Studies in Education), Adjunct Professor in Women's Studies

**Grandy, Karen**, B.A. (Dalhousie), M.A., Ph.D. (Western Ontario), Associate Professor of Communications

**Grek Martin, Jason**, B.A. (Queens), M.S. (Wisconsin-Madison), Ph.D. (Queens), Assistant Professor in Geography & Environmental Studies

**Grimes-MacLellan, Dawn**, B.A., B.S., Journalism (Boston University), M.A. (Cornell), Ph.D (University of Illinois), Adjunct Professor of Anthropology

**Guenther, David**, B.Sc., M.Sc. (Simon Fraser), Ph.D. (Yale), Professor and Graduate Coordinator of Astronomy and Physics

**Gultekin, Mehmet Nuri**, B.A., M.A. Ph.D., (EGE University, Izmir, Turkey), Adjunct Professor of International Development Studies

**Haiven, Judith**, M.A., Ph.D. (Warwick), Professor of Management

**Haiven, Larry**, B.Sc. (Toronto), M.P.M. (Alberta), Ph.D. (Warwick), Adjunct Professor of Master of Management – Cooperatives and Credit Unions

**Hale, Mary I.**, B.A. (California), M.Div (Boston), Ph.D. (Concordia), Assistant Professor of Religious Studies and Program Coordinator of MA in Theology and Religious Studies

**Hall, D.C.**, B.A.(Hons), M.A., Ph.D. (Toronto), Associate Professor of English

**Hanley, Jacob J.**, B.Eng. (Hons), M. Sc., Ph.D. (Toronto), Associate Professor and Co-Chairperson of Department of Geology

**Hare, Andrew F.**, B.Educ (U of Ontario), B.Sc., (Toronto), M.Sc. (UBC), Lecturer in Mathematics and Computing Science

**Harper, Karen, B.A.** (Middlebury College), M.Sc., Ph.D. (Alberta), Adjunct Professor of Biology, Environmental Science and Geography

**Hart, Randle**, B.A., M.A. (Victoria), Ph.D. (Toronto), Associate Professor of Sociology and Criminology

**Hartnell, Bert L.**, B.Math., M.Math., Ph.D. (Waterloo), Professor and Co-Chairperson of Mathematics and Computing Science

**Hassanali, Sherida S.**, B.A. (Mount Saint Vincent), M.A., Dipl TESL (Saint Mary's), Adult Education (Henson College), Ph.D. (Toronto), Adjunct Professor of Education

## 138 Academic Officers and Faculty

---

**Haynes, Ronald D.**, B.Sc. (Memorial), M.Sc., Ph.D. (Simon Fraser), Adjunct Professor of Mathematics and Computing Science

**Heckerl, David**, B.A. (Pitzer College), M.A. (New Brunswick), Ph.D. (McGill), Associate Professor of English

**Heffernan, Teresa**, B.A., M.A. (Ottawa), Ph.D. (Toronto), Professor of English

**Helms Mills, Jean**, B.A. (Hons.) (Saint Mary's), M.A., Ph.D. (Lancaster), Professor of Management

**Henry, Eric S.**, B.A. (Wilfrid Laurier), M.Sc. (Oxford), Ph.D. (Cornell), Assistant Professor of Anthropology

**Hervieux, Chantal**, B.A.A., MBA, Ph.D. (U de Quebec), Assistant Professor of Management

**Higgins, Rylan G.**, B.Sc. (Baker U), M.A. (Kansas), Ph.D. (Arizona), Associate Professor of Anthropology and Undergraduate Program Coordinator of International Development Studies

**Hlongwane, Gugu**, B.A. (Sarah Lawrence College), M.A. (Guelph), Ph.D. (York), Associate Professor of English

**Holmvall, Camilla M.**, B.A. (Hons.) (Guelph), M.A., Ph.D. (Waterloo), Associate Professor of Management and Psychology

**Hulan, Renee**, B.A. (Acadia), M.A. (Guelph), Ph.D. (McGill), Professor of English

**Hurrell, Joseph J.**, B.A. (Miami), M.A. (Xavier), Ph.D. (Miami), Adjunct Professor of Psychology

**Hussain, Syed Adnan**, B.A. (McGill), J.T.S. (Chanler School of Theology), J.D. (Emory University School of Law), Ph.D. Candidate (Toronto), Assistant Professor in Religious Studies

**Irving, John C.**, B.Math., M. Math., Ph.D. (Waterloo), Associate Professor of Mathematics and Computing Science

**Ivanoff, Jason**, B.Sc. (Hons), M.A. (Guelph), Ph.D. (Dalhousie), Associate Professor, Psychology

**Johnson, Val M.**, B.A., M.A. (Toronto), Ph.D. (New School for Social Research), Associate Professor of Sociology and Criminology

**Jonsyn-Ellis, Felixina**, B.Sc. (Nazareth College, Michigan), M.Sc. (Hons.) (Muenster), Ph.D. (Liverpool), Adjunct Professor of Biology

**Jutla, Dawn**, B.Sc. (West Indies), M.Comp.Sc., Ph.D. (Technical University of Nova Scotia), Professor of Information Systems and Program Director of Master of Technology, Entrepreneurship and Innovation.

**Jutras, Pierre**, B.Sc. (Montréal), M.Sc. (Québec), Ph.D., (Université de Québec à Montréal), Professor and Co-Chairperson of Department of Geology

**Kanungo, Rituparna**, B.Sc. (Hons), M.Sc., Ph.D. (Calcutta), Professor of Physics

**Keeble, Edna**, B.A. (Hons.) (DePaul), M.A., Ph.D. (Dalhousie), Professor of Political Science

**Kehoe, S. Karly**, B.A. (Hons.) (Saint Mary's), Ph.D. (U of Glasgow), Associate Professor of History and Atlantic Canada Studies, Canadian Research Chair in Atlantic Canada Communities

**Kelloway, Kevin**, B.Sc. (Dalhousie), M.Sc. (Saint Mary's), Ph.D. (Queen's), Professor of Management and Psychology and Canada Research Chair in Occupational Health Psychology

**Kennedy, Deborah**, B.A., M.A. (Windsor), Ph.D. (Toronto), Professor of English

**Kennedy, Seán**, B.A. (Trinity Dublin), M.A., Ph.D. (National University of Ireland – Galway), Professor of English, Coordinator of Irish Studies and Associate Dean of Arts (Research)

**Kernaghan, Gavin**, B. Sc., M.Sc. (British Columbia), Ph.D. (Alberta), Adjunct Professor of Biology

**Keys, Kevin**, B.Sc.F. (UBC), M.Sc.F. (UNB), Ph.D. (Dalhousie), Adjunct Professor of Environmental Science

**Khan, Bashir**, M.S. in Statistics (University of Karachi), M.S. in Statistics (Rutgers), Ph.D. (Regina), Associate Professor of Mathematics and Computing Science

**Khokhar, Abdul-Rahman**, B.Sc. (Mathematics) MBA (Marketing) (Bahauddin Zakariya U), MBA (Finance & Marketing (McGill), (Ph.D McMaster), Assistant Professor of Finance

**Kim, Chankon**, B.Comm. (Calgary), M.B.A., Ph.D. (Indiana), Professor of Marketing

**Kimery, Kathryn**, B.A. (Tulsa), Ph.D. (Oklahoma), Associate Professor of Information Systems

**Kirk, John M.**, B.A. (Hons.) (Sheffield), M.A. (Queen's), Ph.D. (British Columbia), Adjunct Professor of International Development Studies

**Knapp, Adrian**, M.A.(U of Innsbruck), Ph.D. (U of Leeds), Adjunct Professor of English

**Kocum, Lucie**, B.A. (Hons.) (Carleton), Ph.D. (Ottawa), Associate Professor of Psychology and Acting Program Coordinator for M.Sc. Applied Health Services Research Program

**Konopasky, Robert J.**, M.A. (Western Ontario), B.A., Ph.D. (Windsor), Professor of Psychology

**Konstantinidis, Stavros**, B.Sc. (Athens), M.Sc., Ph.D. (Western Ontario), Professor of Mathematics and Computing Science

**Kochetova- Kozloski, Natalia**, B.Sc. (Hons.) (South Alabama), Ph.D. (Georgia State), CMA, Associate Professor of Accounting

**Kozloski, Thomas M.**, BBA (Notre Dame), MBA (Pittsburgh), Ph.D. (Drexel), CPA, Associate Professor, Accounting

**Krishnamurti, Sailaja V.**, B.A. (Hons.) (York), M.A. (UVic), Dip.ASNT, Ph.D. (York), Assistant Professor of Religious Studies

**L'Enfant, Julian**, Dipl (DTEFLA) (Intern'l House Wroclaw, Poland), Cert Onlin Tutoring (Intern'l House, London), CLIL for Lang Teachers (Intern'l House,,Barcelona), Cert in Adv Prof Studies in Plurilingual Educ (U of Aberdeen), Dipl in Adv Prof Studies in Plurilingual Educ (U of Aberdeen), M.Ed in Adv Prof Studies in Plurilingual Educ (U of Aberdeen), Adjunct Professor in Education

**Lamoureux, Marc M.**, B.Sc. (Hons.) (Ottawa), Ph.D. (Carleton), Associate Professor of Chemistry

**Landes, Ronald G.**, B.Sc. (Oregon), M.A., Ph.D. (York), Professor of Political Science

**Lee, Eric**, B.A., M.A., Ph.D. (Victoria), Professor of Management Science

**Lee-Bagley, Dayna**, B.Sc. (U of Calgary), M.A. (U of BC), Ph.D., (U of BC), Adjunct Professor of Psychology

**Legutke, Michael K.**, M.A. (Goethe Universitat, Frankfurt), Ph.D. (Justus Liebig-University, Giessen), Adjunct Professor in Education

**Leroux, Darryl R.J.**, B.A. (Hons.) (Trent), M.A. (Toronto), Ph.D. (Carleton), Professor of Sociology and Criminology and Undergraduate Coordinator of Atlantic Canada Studies

**Liebenberg, Linda**, B.A. (Hons.), M.A., Ph.D. (Stellenbosch), Adjunct Professor of Sociology & Criminology

**Lightstone, Karen**, B.A. (Queens), Ph.D. (Portsmouth), C.A., Associate Professor of Accounting

**Lingras, Pawan**, B.Tech. (Civil Engineering) (Indian Institute of Technology), M.Sc. (Civil Engineering), M.Sc., Ph.D. (Regina), Professor of Mathematics and Computing Science and Program Coordinator of M.Sc. Computing and Data Analytics

**Linney, Norma C.**, B.Sc. (Mount Allison), B.Eng., M.A.Sc. (T.U.N.S.), Ph.D. (DalTech), P.Eng., Adjunct Professor, Department of Mathematics and Computing Science

**Liu, Feng**, B.A. (Quingdao U), M.A. (Lancaster U), Ph.D. (UBC), Assistant Professor of Management.

**Livingston, James D.**, B.A. (UPEI), M.A., Ph.D. (Simon Fraser), Assistant Professor of Sociology and Criminology

**Loughlin, Catherine**, B.Sc. (Calgary), M.A., Ph.D. (Queens), Professor of and Canada Research Chair in Management

**Lovekin, Catherine**, B.Sc. (Hons.) (McMaster), M.Sc., Ph.D., (Saint Mary's), Adjunct Professor of Astronomy & Physics

**Lundholm, Jeremy T.**, B.Sc. (Hons.) (Queens), MES (York), Ph.D. (Guelph), Professor of Biology and Environmental Science

**MacDonald, Luke**, Dipl of Engineering, (Saint Mary's), M.Sc. (Dalhousie), Lecture in Engineering

**MacDonald, Margaret**, B.A. (Hons.) (Saint Mary's), Ph.D. (Oxford), Dean of Arts and Professor of Religious Studies

**MacDonald, Martha**, B.A. (Dalhousie), M.A., Ph.D., (Boston College), Professor of Economics

**MacKinnon, John E.**, B.A. (Hons.) (McGill), M.A. (Toronto), M.Phil (Exeter), Ph.D. (Cambridge), Associate Professor of Philosophy

**MacLeod, Alexander**, B.A. (Windsor), M.A. (Notre Dame), Ph.D. (McGill), Associate Professor of English

**MacNeil, Donald**, TOEFL Cert, Dipl Engineering (Saint Mary's), B. Eng (TUNS), M.Sc (Åbo Akademi University, Finland & Universidad Complutense de Madrid), Ph.D (Åbo Akademi University, Finland). Lecturer in Engineering, and Director, Division of Engineering

**MacNeil, James D.**, B.Sc., M.Sc. (St. Francis Xavier), Ph.D. (Dalhousie), Adjunct Professor of Chemistry

**MacNevin, Audrey**, B.Sc., B.Ed. (Mount Saint Vincent), M.A. (Dalhousie), Ph.D. (Memorial), Associate Professor of Sociology and Program Coordinator of Women and Gender Studies

**MacRae, R. Andrew**, B.Sc. (Hons.) (Dalhousie), M.Sc., Ph.D. (Calgary), Assistant Professor of Geology

**Malinen, Kelley Anne**, B.A., MA, Dalhousie, PhD. Universite Labal, Adjunct Professor of Women and Gender Studies

**Malton, Sara**, B.A. (Victoria), M.A. (Ottawa), Ph.D. (Toronto), Associate Professor of English

**Mastnak, Mitja**, Dip. (U. Ljubljana), M.Sc., Ph.D. (Dalhousie), Professor of Mathematics and Computing Science

**Masuda, Jason D.**, B.Sc., M.Sc. (Lethbridge), Ph.D. (Windsor), Professor of Chemistry

**Matta, Chérif F.**, Bachelor of Pharmaceutical Science (Hons.) (Alexandria), Ph.D. (McMaster), Adjunct Professor of Chemistry

## 140 Academic Officers and Faculty

---

**McCallum, Myles**, BA (Alberta), M.A., Ph.D. (SUNY, Buffalo), Associate Professor of Classics

**McLaren, Zechariah**, BSSc (U of Ottawa), MEd (U of Southern Queensland, Australia), Ph.D. (Northcentral University, USA), Adjunct Professor of Education

**McGowan, Mark G.**, BA (Hons) (Ottawa), MA., Ph.D. (Toronto), Adjunct Professor of History

**McGuire, Shana**, Certificate (Sorbonne), B.A. (Acadia), M.A., Ph.D. (Dalhousie), Lecturer in French

**McKee, Margaret C.**, B.P.R. (Mount Saint Vincent), MBA (Toronto), Ph.D (Saint Mary's), Associate Professor of Management and Program Director of Master of Business Administration

**Merabet, Adel**, Bachelor in Automation (annaba, Algeria), Master in Automation (Nantes, France), Ph.D. Engineering (Quebec), Associate Professor of Engineering

**Mercer, Keith**, B.A. (Hons.), M.A., (Memorial), Ph.D. (Dalhousie), Adjunct Professor of Atlantic Canada Studies

**Mercer, Mark D.**, B.A. (Hons.), M.A. (Carleton), Ph.D. (Toronto), Professor and Chairperson of the Department of Philosophy

**Millar, Harvey H.**, B.Sc. (West Indies), M.A.Sc., Ph.D. (Technical University of Nova Scotia), Professor of Management Science

**Miller, Paul**, B.Sc. (St. Francis Xavier), D.D.S. (Dalhousie), Adjunct Professor of Forensic Science

**Mills, Albert J.**, B.A. (Hons.) (Durham), M.A. (Sheffield), M.Sc. (Southern California), Ph.D. (Durham), Professor of Management and Program Director of the Ph. D. in Business Administration (Management) Program

**Millward, Hugh A.**, B.A. (Lancaster Polytechnic), M.A., Ph.D. (Western Ontario), Professor of Geography

**Miner, Karen**, BBA (Acadia U), M.A. (UBC), Adjunct Professor of Management and Program Director of Master of Management – Cooperatives and Credit Unions

**Mohd, Mahmoud A.**, B.A. (Yarmouk), M.B.A. (Wisconsin-Madison), Ph.D. (Arkansas), Associate Professor of Finance

**Morales, Miguel**, B.Eco., M.B.A. (Lima), M.Sc., Ph.D. (Laval), Associate Professor of Marketing

**Moretti, Roberto**, MA (cum laude) (U of Genova), Ph.D. (U of Pisa), Adjunct Professor of Geology

**Morley, Stephanie**, B.A. (McGill), M.A., Ph.D. (McMaster), Assistant Professor of English

**Muir, Paul**, B.Sc. (Hons.) (Saint Mary's), M.Sc., Ph.D. (Toronto), Professor of Mathematics and Computing Science

**Mulnix, Amy B.**, B.S.S. (Cornell), Ph.D. (Purdue), Adjunct Professor of Forensic Science

**Munck, Ronaldo**, BA (Hons) (U of Essex), Ph.D. (U of Essex), Adjunct Professor of International Development Studies

**Munkel, Florian**, B.Sc (U of Ulm, Germany), M.Sc., (U of Southern California), Ph.D. (U of Washington), Assistant Professor of Finance

**Munro, John**, B.A., M.A., (Simon Fraser), Ph.D. (U of California), Associate Professor of History

**Muse Isaacs, Sandra**, B.A. (Hons), M.A. (U of Windsor), Ph.D. (McMaster), Assistant Professor of English

**Naulls, Donald J.**, B.A. (Hons.), M.A. (Wilfrid Laurier), Ph.D. (York), Associate Dean of Arts and Associate Professor of Political Science; Chairperson, Academic Senate

**Neatby, Nicole**, B.A. (Ottawa), M.A. (Queens), Ph.D. (Montreal), Associate Professor of History, Graduate Coordinator of History

**Neilsen, Lori**, B.Ed. (U of Saskatchewan), MA (U of Minnesota), Ph.D. (U of New Hampshire), Adjunct Professor of Women's Studies

**Novak, Mathew**, B.A. (Hons), M.A., Ph.D. (Western), Assistant professor of Geography & Environmental Studies, and Program Coordinator of MA in Geography

**Norris, Meghan E.**, BA (Saint Mary's), MA, Ph.D. (Queens U), Adjunct Professor of Psychology

**Novokovic, Sonja**, B.A. (Novi Sad), M.A. (Guelph), Ph.D. (McGill), Professor of Economics and Director of MMCCU Program

**Ogden, Harold**, Dip. in Bus. Ad., M.B.A. (Wilfrid Laurier), Ph.D. (Queen's), Associate Professor of Marketing

**O'Brien, James P.**, B.A. (RMC), M.A. (Queens), MBA (Memorial), Ph.D. (Western), Associate Professor of Management

**O'Malley, Anthony H.**, B.A. (Hons.) (New Hampshire), Ph.D. (Dalhousie), Associate Professor of International Development Studies, Education and Anthropology, and Coordinator of the International Development Studies Program

**O'Neill, Timothy J.**, B.A. (St. Francis Xavier), M.A. (Columbia), Ph.D. (Duke), Adjunct Professor of Executive Master of Business Administration Program

**Oore, Sageeve**, B.Sc. (Hons.) (Dalhousie), M.Sc., Ph.D. (Toronto), Associate Professor and Chairperson of the Department of Mathematics and Computing Science, and Program Coordinator, Computing and Business Administration

**Ó Siadhail, Pádraig**, B.A. (Hons.), Ph.D. (Trinity College, Dublin), Associate Professor and The Thomas D'Arcy McGee Chair of Irish Studies

**Owen, J. Victor**, B.Sc. (Concordia), M. Applied Sc. (Québec), Ph.D. (Memorial), Professor of Geology

**Panasian, Christine A.**, B.Comm., M.Sc.(Concordia), Ph.D. (Texas Tech), Associate Professor of Finance

**Pancer, Ethan**, B.Comm., M.Sc., Ph.D. (Queens), Assistant Professor of Marketing

**Papadopoulos, Yousef A.**, B.Sc., M.Sc., Ph.D. (Guelph), Adjunct Professor of Biology

**Patry, Marc**, B.A.(Castleton), M.A., M.L.S., Ph.D.(Nebraska-Lincoln), Professor and Chairperson of Psychology

**Peckmann, Tanya R.**, B.Sc., B.A. (Hons.) (Winnipeg), M.A. (Manitoba), Ph.D. (University of Cape Town Medical School), Associate Professor of Anthropology

**Pe-Piper, Georgia**, B.Sc. (Athens), Ph.D. (Cambridge), Professor of Geology

**Perkin, J. Russell**, B.A. (Hons.) (Acadia), M.A. (Oxford), Ph.D. (Toronto), Professor of English

**Petras, James**, M.A., Ph.D. (California), Adjunct Professor of International Development Studies

**Petrinioti, Xanthi (Sandi)**, B.A. (Concordia), M.A. (Carleton), Ph.D. (Panteion U), Adjunct Professor of Sociology and Criminology

**Pietsch, Christian**, B.Com., (U of Minnesota), MBA (Freie Universität Berlin), Ph.D. (U of Luxembourg), Assistant Professor of Accounting.

**Pioro, Adam**, B.Sc., M.Sc., Ph.D. (Silesian Technical University), Adjunct Professor of Chemistry

**Piper, David**, B.A., Ph.D. (Cambridge), Adjunct Professor of Geology

**Plews, John L.**, B.A. (Hons.) (Manchester), M.A., Ph.D. (Alberta), Associate Professor of German.

**Pottie, Ian**, B.Sc. (Hons.) (Saint Mary's), Ph.D. (Memorial), Adjunct Professor of Chemistry

**Power, Jeffrey**, B.Comm. (Hons.), M.B.A. (Saint Mary's), Ph.D. (Purdue), C.M.A., F.C.M.A., Assistant Professor and Chairperson of the Department of Accounting

**Pye, Cory C.**, B.Sc. (Hons.), Ph.D. (Memorial), Associate Professor of Chemistry

**Qaderi, Mirwais W.**, B.Sc., M.Sc. (Kabul), M.Sc., Ph.D. (Western), Adjunct Professor of Biology

**Rahaman, Mohammad M.** BA (IIUM, Malaysia), M.A. (York), MPhil (Cambridge), Ph.D. (Toronto), Associate Professor of Finance

**Ralston, Meredith**, BA (U of T), MA (U of Sussex), Ph.D. (Dalhousie), Adjunct Professor of Women's Studies

**Ramji, Rubina**, B.A., M.A. (Wilfrid Laurier), Ph.D. (Ottawa), Adjunct Professor of Religious Studies

**Rankaduwa, Wimal**, B.A., M.Sc. (U of Peradeniya), M.A., Ph.D. (Dalhousie), Adjunct Professor of Economics

**Raymond, Mark**, B.A., M.A. (Windsor), Ph.D. (Guelph), Assistant Professor and Chairperson of Economics

**Read, Lorna M.**, B.Sc. (Dalhousie), M.A. (Saint Mary's), Ph.D. (Columbia), Adjunct Professor of International Development Studies

**Rehberg Sedo, Denel**, BA (U of North Dakota), MA (Arizona State U), Ph.D. (Simon Fraser), Adjunct Professor of Women's Studies

**Reid, John G.**, F.R.S.C., B.A. (Hons.) (Oxford), M.A. (Memorial), Ph.D. (New Brunswick), Professor of History and Senior Fellow of the Gorsebrook Research Institute for Atlantic Canada Studies

**Rhineland, Jason**, B.Sc (EGNE), M.Sc (EGNE) (Memorial), Ph.D. (Carleton), Assistant Professor of Engineering

**Rixon, Daphne**, B.A., B.Comm (Hons), M.B.A. (Memorial), Ph.D. (Warwick), C.M.A., F.C.M.A., Associate Professor of Accounting and Executive Director, Centre of Excellence in Accounting and Reporting for Co-operatives

**Rojas, Diego**, B.Sc., M.Sc., (National University of Mexico), M.S., Ph.D. (U of Florida), Lecturer in Mathematics and Computing Science.

**Roulin, Nicolas**, B.Sc., M.Sc., (U of Lausanne, Switzerland), Ph.D., (U of Neuchâtel, Switzerland), Assistant Professor of Psychology

**Russell, Ronald W.**, B.Sc. (Hons.), M.Sc., B.Ed., Ph.D., Associate Professor of Biology

**Sable, Trudy**, B.A., M.A. (Saint Mary's), Ph.D. (New Brunswick), Adjunct Professor of Anthropology

**Salas Bravo, Sonia**, M.Ed. (Catholic University, Chile), Ph.D. (U of Tennessee), Adjunct Professor of Environmental Science

**Saney, Isaac**, B.A., M.A. (Saint Mary's), LL.B. (Dalhousie), Ph.D. (candidate – London), Adjunct Professor of History

**Saroukhani, Henghameh**, B.A. (Alberta), M.A. (British Columbia), Ph.D.(U of Leeds, UK), Assistant Professor of English

## 142 Academic Officers and Faculty

---

**Sarty, Adam J.**, B.Sc. Eng., Ph.D. (Saskatchewan), Professor of Astronomy and Physics and Associate Dean of Science - External and Student Affairs

**Sawicki, Marcin**, B.Sc. (McMaster), M.Sc., Ph.D. (Toronto), Professor and Chairperson of Astronomy and Physics

**Seales, Heather**, B.B.A. (Acadia), C.A., Lecturer in Accounting and Business Co-op Advisor

**Schneider, Stephen**, B.A. (Carleton), M.Sc. (Pennsylvania), Ph.D. (British Columbia), Associate Professor of Criminology and Graduate Coordinator of Sociology and Criminology

**Schulte-Bockholt, Alfried**, B.A. (Hons.), M.A. (Guelph), Ph.D. (Carleton), Associate Professor of Criminology

**Scobey, Porter**, B.Sc., M.A., Ph.D. (Dalhousie), Associate Professor of Mathematics and Computing Science

**Secord, Peter C.**, B.Comm. (Hons.), M.B.A., M.P.A. (Dalhousie), Ph.D. (Reading), C.M.A., CGA, C.I.A., F.C.M.A., Associate Professor of Accounting

**Sewell, Bill**, B.Sc. (Wisconsin), M.A. (California), Ph.D. (British Columbia), Associate Professor History and Coordinator of the Asian Studies Program

**Sheppard, Mary**, B.Sc. (Hons), M.Sc. (Alberta), Lecturer in Chemistry

**Sherry, Dayna L.**, M.A., Ph.D. (British Columbia), Adjunct Professor of Psychology

**Short, C. Ian**, B.Sc. (Hons.) (New Brunswick), M.Sc., Ph.D. (Toronto), Professor Astronomy and Physics

**Singer, Robert D.**, B.Sc. (Saint Mary's), Ph.D. (Simon Fraser), Professor and Chairperson of Chemistry

**Singfield, Kathy L.**, B.Sc. (St. Francis Xavier), M.Sc., Ph.D., (McGill), Associate Professor of Chemistry and Associate Dean of Science - Curriculum

**Sit, Clarissa S.**, B.Sc., M.Sc., Ph.D., (Alberta), Assistant Professor of Chemistry

**Sivakumar, Shyamala C.**, B.Eng. (Bangalore), M.A.Sc., Ph.D. (Technical University of Nova Scotia), Professor of Information Systems

**Slumkoski, Corey**, B.A. (Hons.) (Carleton), M.A., Ph.D. (UNB), Adjunct Professor of Atlantic Canada Studies

**Smith, Steven**, B.A. (Hons.) (Bishops), M.A., Ph.D. (Queen's), Professor of Psychology and Dean of Science

**Smol, Anna**, BA (Hons. mcl) (Concordia), MA and Ph.D. (Queen's), Adjunct Professor of Women's Studies

**Song, Xiaofei**, B.Sc. (Fudan), M.Sc. (Shanghai Jiao Tong), M.B.A. (Saint Mary's), Ph.D. (Baruch, CUNY), FCGA, Associate Professor of Accounting

**Soucy, Alexander**, B.A., M.A. (Concordia), Ph.D. (The Australian National University), Professor and Chairperson of the Department of Religious Studies

**Spinney, Jamie E. I.**, B.A. (Saint Mary's), B. Ed., M. Urban/Rural Planning (Dalhousie), Ph.D. (McMaster), Adjunct Professor of Geography & Environmental Studies

**Spires, Adam C.**, B.A.H. (Acadia), M.A., Ph.D. (Alberta), Associate Professor of Spanish

**Stanivukovic, Goran V.**, B.A. (Novi Sad), M.A., Ph.D. (Belgrade), Professor of English and Chairperson of the Department of English Language and Literature

**Stefanovic, Djordje**, B.A. (Hons.) (Simon Fraser), M.A., Ph.D. (Toronto), Associate Professor of Criminology and Sociology

**Stephens, Skye**, B.A. (Hons.) (York), M.A., Ph.D. (Ryerson), Assistant Professor of Psychology

**Stinson, Veronica**, B.A., M.S., Ph.D. (Florida International University), Professor of Psychology

**Stretton, Timothy**, B.A. (Hon.), LL.B. (Adelaide), Ph.D. (Cambridge), Professor of History

**Summerby-Murray, Robert**, B.A., M.A. (Canterbury), Ph.D. (Toronto), President (July 2015) and Professor of Geography

**Summers, Russel J.**, B.A. (British Columbia), M.A., Ph.D. (Waterloo), Associate Professor and Chairperson of the Department of Management

**Sun, Genlou**, B.Sc. (Anhui Laodong University), M.Sc., Ph.D. (Sichuan Agricultural University), Professor of Biology

**Sun, Xiaoping**, B.A. (Qiqihar Normal University), M.A. (Liaoning University), M.A., Ph.D. (U of California), Assistant Professor of History

**Suteanu, A. Cristian**, B.Eng. (Politehnica University, Bucharest), Ph.D. (Romanian Academy), M.A. (University of Bucharest), Associate Professor of Geography & Environmental Studies and Environmental Science

**Swatuk, Larry**, B.A., M.A. (Windsor), Ph.D. (Dalhousie), Adjunct Professor of International Development Studies

**Swingler, David N.**, B.Eng., Ph.D. (Sheffield), Professor of Engineering

**Tabvuma, Vurain**, B.Sc. (Africa U, Zimbabwe), M.Sc., Ph.D., (Brunel U, UK), Assistant Professor of Management

**Takseva, Tatjana**, B.A. (Hons.) (York), M.A., Ph.D. (Toronto), Associate Professor of English

**Talukdar, Bidyut K.**, B.S.S., M.S.S. (Shah Jalal University), M.A. (Manitoba), Ph.D. (McMaster), Assistant Professor of Economics

**Tastsoglou, Evangelia**, LL.B. (National University of Athens), Ph.D. (Boston University), Professor of Sociology

**Teivainen, Teivo**, MA, Ph.D. (Helsinki), Adjunct Professor of International Development Studies

**Ternes, Marguerite**, B.A. (St. Francis Xavier U), M.A., Ph.D. (UBC), Assistant Professor of Psychology

**Tetreault, Darcy V.**, B.Sc. (Saskatchewan), MA (SMU), Ph.D. (University of Guadalajara), Adjunct Professor of International Development Studies

**Thacker, Robert J.**, B.Sc. (Nottingham), M.Sc. (London), Ph.D. (Alberta), Professor of Astronomy and Physics

**Tharamangalam, Joseph**, L.Ph (Sacred Heart Jesuit College, India), M.A. (Delhi), M.A., Ph.D. (York), Adjunct Professor of International Development Studies

**Theunissen, Shane**, B.A. (Western), B.Ed (Hons) (Lakehead), M. Ed (Queen's), Adjunct Professor of International Development Studies

**Tsedryk, Egor**, BA (Universite Linguistique d'Etat de Mi), MA and Ph.D. (Western), Associate Professor of French and Linguistics

**Twohig, Peter L.**, B.A., M.A. (Saint Mary's), Ph.D. (Dalhousie), Associate Professor of Atlantic Canada Studies, Executive Director of the Gorsebrook Research Institute and Graduate Coordinator of Atlantic Canada Studies

**Vance, Michael**, B.A. (Hons.) (Simon Fraser), M.A. (York, U.K.), M.A. (McMaster), Ph.D. (Guelph), Professor of History and acting Graduate Coordinator of the Master of Arts in Atlantic Canada Studies (ACST)

**VanderBurgh, Jennifer A.**, BA (Hons) (Queen's), M.A., Ph.D. (York), Associate Professor of English

**VanderPlaat, Madine**, B.A. (Hons.), M.A., Ph.D. (Dalhousie), Professor of Sociology and Associate Dean of Arts (Research)

**Van Gorp, Hendrika**, B.A., B.Ed. M.Ed. (Mount Saint Vincent), Adjunct Professor of Education

**van Proosdij, Danika**, B.Sc. (Hons.), M.Sc., Ph.D. (Guelph), Professor and Chairperson of the Department of Geography & Environmental Studies

**Van Wilgenburg, H.**, B.A. (Hons PHIL) (Acadia), M.A.(PHIL), M.Sc. (ENVS), Ph.D., (Dalhousie), Adjunct Professor in Philosophy

**Venkat, Ramesh**, B.Comm., M.B.A. (Madurai-Kamaraj), M.B.A. (Simon Fraser), Ph.D. (British Columbia), Associate Professor of Marketing

**Ventura, Gregory T.**, B.Sc., (Southern Methodist U), M.Sc., Ph.D. (Indiana U), Associate Professor of Geology and Canada Research Chair in Petroleum Systems, Geochemistry and Reservoir Characterization

**Veres, Samuel P.**, B.Eng. (Dalhousie), Ph.D. (U of Auckland), Assistant Professor of Engineering and Coordinator of the Master in Applied Science Program

**Vessey, J. Kevin**, B.Sc. (Hons.), M.Sc. (Dalhousie), Ph.D. (Queens), Professor of Biology

**Wagar, Terry H.**, B.A. (Queens), B.Comm. (Windsor), LL.B. (Ottawa), M.B.A. (Toronto), M.I.R. (Queen's), Ph.D. (Virginia Technic), Professor of Management

**Walls, Martha**, B.A. (UNB), M.A. (Dalhousie), Ph.D. (UNB), Adjunct Professor of Atlantic Canada Studies

**Walsh, Susan**, B.Ed, M.Ed, Ph.D. (Alberta), Adjunct Professor of Women's Studies

**Wan, Zeying**, Dip. Comp. Eng., M.Phil.Sc. (Zhejiang), Ph.D. (Western Ontario), Assistant Professor of Information Systems

**Wang, Hai**, B. Comp. Sc. (Hons.) (New Brunswick), M.Sc., Ph.D. (Toronto), Professor of Information Systems

**Wang, Muhong**, B.A.Sc. (Xian Jiaotong), M.A.Sc. (Xian Jiaotong), Ph.D. (Waterloo), Associate Professor of Management Science

**Warne, Randi**, BA (U of W), MA and Ph.D., (Toronto), Adjunct Professor of Women's Studies

**Warner, Lyndan**, B.A. (Hons.) (McGill), Ph.D. (Cambridge), Associate Professor of History

**Watson, Ariel**, B.A. (Hons.) (N. Carolina), M.A., Ph.D. (Yale), Assistant Professor of English

**Webb, J. Tom**, B.A. (St. Francis Xavier), M.A. (Carleton), Adjunct Professor of Master of Management – Cooperatives and Credit Unions

**Wei, Mei-Ling**, B.Comm. (Hons.) (McMaster), MBA (Dalhousie), Ph.D. (York), Assistant Professor of Marketing

**Wein, Sheldon**, B.A., M.A., Ph.D. (Waterloo), Professor of Philosophy and International Development Studies

**Weir, Laura K.**, B.Sc. (Hons.) (Concordia), M.A., Ph.D. (Dalhousie), Assistant Professor of Biology

**Westhaver, Russell**, B.A. (Hons.), M.A. (Saskatchewan), Ph.D. (Simon Fraser), Associate Professor of Sociology and Chairperson of the Department of Sociology and Criminology

**White, Jerry**, BA (Oregon), MA, Ph.D. (Alberta), Adjunct Professor of Irish Studies

## 144 Academic Officers and Faculty

---

**White, Peter**, B.Sc. (Hons.) (Saint Mary's), M.Sc., Ph.D. (York), Adjunct Professor of Environmental Science

**Whyatt, Georgina**, B.A. (Leeds), MBA (Edinburgh College of Art), Ph.D. candidate (Oxford Brookes), Adjunct Professor of Master of Management – Co-operatives and Credit Unions

**Wiacek, Aldona**, B.Sc., M.Sc., Ph.D. (Toronto), B.Ed. (MSVU), Assistant Professor of Environmental Science and of Astronomy and Physics

**Wicks, David**, B.Comm. (Carleton), M.B.A., Ph.D. (York), B.A. (Dalhousie), Professor of Management

**Wise, Raul D.**, B.Sc. (U of Mexico), M.Sc. Ph.D. (U of Pennsylvania), Adjunct Professor of International Development Studies

**Wood, Marnie Jane**, B.Sc. (St. Francis Xavier), MD (Dalhousie), Adjunct Professor of Forensic Science

**Ye, L. George**, B.Sc. (Peking), M.Eng. (Beijing), M.A. (York), Ph.D. (Queen's), Associate Professor of Finance

**Ylijoki, Kai**, H.B.Sc., M.Sc., (Lakehead University), Ph.D. (U of Alberta), Assistant Professor of Chemistry

**Young, Nicola**, B.Comm., M.B.A. (Dalhousie), F.C.A., Professor of Accounting

**Zhang, Michael**, B.S. (Zhejiang), M.A. (Xiamen), Ph.D. (Western Ontario), Associate Professor of Management Science

**Zhyznomirska, Lyubov**, B.A. (Hons.) (University of Kyiv-Mohyla Academy), M.A., Ph.D. (U of Alberta), Assistant Professor of Political Science

---

## Academic Officers and Professors Emeriti

---

**Badawi, Jamal A.**, B.Comm. (Ain-Shams), M.B.A., Ph.D. (Indiana), Professor Emeritus of Management

**Bowlby, Paul W. R.**, B.A., M.A., Ph.D. (McMaster), Professor Emeritus of Religious Studies

**Carrigan, D. Owen**, B.A. (St. Francis Xavier), M.A. (Boston), Ph.D. (Maine), Professor Emeritus of History

**Chadwick-Jones, John**, B.A., M.A. (Oxford), Ph.D., D.Sc. (Wales), F.A.P.A., F.B.Ps.S., Professor Emeritus of Psychology

**Chesley, G. Richard**, B.Comm. (Mount Allison), M.A., Ph.D. (Ohio State), Professor Emeritus of Accounting

**Christiansen-Ruffman, Linda**, B.A. (Hons.) (Smith College), Ph.D. (Columbia), Professor Emerita of Sociology

**Connelly, Patricia**, B.A. (Saint Mary's), Dip. Ed., M.A. (Dalhousie), Ph.D. (Toronto), Professor Emerita of Sociology

**Davis, Stephen A.**, B.A. (New Brunswick), M.A. (Memorial), D.Phil. (Oxford), Professor Emeritus of Anthropology

**Day, E. E. Douglas**, B.A., Dip. Ed. (Leicester), Ph.D. (Sheffield), Professor Emeritus of Geography

**Dostal, Jaroslav**, Dip. Geol. (Prague), Ph.D. (McMaster), Professor Emeritus of Geology

**Dougherty, Frank P.**, B.Comm. (Sir George Williams), M.Sc. (Clarkson College of Technology), Ph.D. (Pennsylvania State), C.A., Professor Emeritus of Accounting

**Fitzgerald, Patricia A.**, B.B.A. (St. Francis Xavier), M.A. (North Dakota), Ph.D. (Northern Colorado), Professor Emeritus of Management

**Gorman, Barry F.**, B.Comm. (Saint Mary's), M.B.A. (Dalhousie), Ph.D. (Bath), C.A., T.E.P., Professor Emeritus of Accounting

**Grennan, Wayne**, B.Eng. (Nova Scotia Technical College), B.A., M.A. (Dalhousie), D.Phil. (Oxford), Professor Emeritus of Philosophy

**Haiven, Larry**, B.Sc. (Toronto), M.P.M. (Alberta), Ph.D. (Warwick), Professor Emeritus of Management

**Harvey, Andrew S.**, B.A. (Maine), M.A., Ph.D. (Clark), Professor Emeritus of Economics

**Hayes, Archbishop Emeritus James M.**, B.A. (Saint Mary's), D.C.L., Hon.D.D., Hon.D.D., Hon.D.Hum.L., Hon.LL.D., Hon.D.Litt., Hon.D.Litt., Chancellor Emeritus

**Haysom, John T.**, B.Sc. (London) Ph.D. (Cambridge) Professor Emeritus of Education

**Hill, Janet**, B.A. (Hons.) (Sheffield), M.A., Ph.D. (Dalhousie), Professor Emerita of English

**Hill, Kenneth A.**, B.A. (California State College), M.A., Ph.D. (Alberta), Professor Emeritus of Psychology

**Howell, Colin D.**, B.A., M.A. (Dalhousie), Ph.D. (Cincinnati), Professor Emeritus of History;

**Katz, Wendy R.**, B.A. (Skidmore College), M.A., Ph.D. (Dalhousie), Professor Emerita of English

**Larsen, Michael J.**, B.A. (Saint Mary's), M.A. (Dalhousie), Ph.D. (Toronto), Dean Emeritus of English

**McCalla, Robert J.**, B.A. (Western Ontario), Ph.D. (Hull), Professor Emeritus of Geography

**Mitchell, George F.**, B.Sc. (McMaster), M.A., Ph.D. (Toronto), Professor Emeritus of Astronomy and Physics

**Murphy, James W.**, S.J., B.A. (St. Joseph's), M.A., Ph.D. (Toronto), Professor Emeritus of Chemistry

**Morrison, James H.**, B.A., B.Ed. (Acadia), Ph.D. (Ibadan), Professor Emeritus of History

**Murphy, Terrence**, B.A. (Saint Mary's), M.A. (Fordham), Ph.D. (Newcastle-Upon-Tyne), Professor Emeritus of Religious Studies and History

**Ozmon, Kenneth L.**, B.A. (St. Bernard College), M.A. (Catholic University of America), Ph.D. (Maine), Hon. LL.D. (Saint Thomas), President Emeritus

**Pendse, Shripad G.**, B.A. (Knox College, Illinois), M.S. (Massachusetts Institute of Technology), Ph.D. (Stanford), Professor of Management

**Richardson, David H. S.**, B.Sc., M.Sc. (Nottingham), M.A., Sc.D. (Trinity College, Dublin), D.Phil. (Oxford), Dean Emeritus

**Rojo, Alfonso**, B.Sc. (Valladolid), M.Sc., D.Sc. (Madrid), Professor Emeritus of Biology

**Seaman, Andrew T.**, B.A. (Mount Allison), M.A. (Dalhousie), Ph.D. (Dublin), Professor Emeritus of English

**Schwind, Hermann F.**, B.B.A., M.B.A. (Washington), Ph.D. (British Columbia), Professor Emeritus of Management

**Stiegman, Emero S.**, B.A. (Don Bosco College), S.T.L. (Salesion Pontifical), Ph.D. (Fordham), Professor Emeritus of Religious Studies

**Tarnawski, V.**, M.Sc., Ph.D. (University of Technology, Poland), P.G.S. (University of Technology, Finland), Professor Emeritus of Engineering

**Thomas, Gillian M. V.**, B.A., M.A. (Sussex), Ph.D. (London), Professor Emerita of English

**Tudor, Kathleen R.**, B.A. (Sir George Williams), M.A. (Montreal), Ph.D. (Toronto), Professor Emerita of English

**Turner, David G.**, B.Sc. (Waterloo), M.Sc., Ph.D. (Western Ontario), Professor Emeritus of Astronomy and Physics

**Welch, Gary A.**, B.S. (Harvey Mudd College), M.S., Ph.D. (Washington), Professor Emeritus of Astronomy and Physics

**Young, George F. W.**, B.A. (Harvard), Ph.D. (Chicago), Professor Emeritus of History

**Young, John C. O'C.**, B.Sc., Ph.D. (London), M.B.A. (New York), Professor Emeritus of Chemistry

---

## Administrative Officers

---

### President

**Summerby-Murray, Robert**, B.A., M.A. (Canterbury), Ph.D. (Toronto), President (July 2015) and Professor of Geography

### Vice-President (Finance and Administration)

**Morrison, Gabrielle**, B.Sc. (Dalhousie), B.E. (Technical University of Nova Scotia), P.Eng.

### Vice President Advancement

**Erin Sargent-Greenwood**, (Wilfrid Laurier)

### Associate Vice President (External Affairs)

**Margaret Murphy**, B.A. (Dalhousie), M.A. (Western Ontario)

### Associate Vice President (Enrolment Management) and Registrar

TBA

### Associate Vice President (Research)

TBA

### Alumni Office

**Daye, Mary Ann**, B.Comm. (Saint Mary's), B.P.R. (Mount Saint Vincent), M.P.A. (Dalhousie), Director

### Art Gallery

**Metcalf, Robin**, B.A. (Hons.) (Dalhousie), Director/Curator

### Business Development Centre

**Crowell, Eric**, B.A. (Dalhousie), M.B.A. (Toronto), C.A., Director

### Continuing Education

**Michael, Gordon**, B.Sc. (Prince Edward Island), B.Ed. (Acadia), M.A. (Dalhousie), Director

### Development

**Fitzpatrick, Heather M.**, B.P.R. (Mount Saint Vincent), Director of Development

### Facilities Management

**Schmeisser, Gary H.**, B.Sc. (Dalhousie), B.Eng. (Technical University of Nova Scotia), Senior Director

### Financial Services

**Rooney, Darrell**, CA, Senior Director of Financial Services  
**Hayward, Maureen**, B.Comm. (Saint Mary's), C.A., Assistant Director

**Murtha, Cindy**, B.A., B.B.A. (Mount Saint Vincent), C.M.A., Manager, Reporting & Audit

**Webb, Kevin**, B.Comm. (Saint Mary's), C.M.A., Manager, Financial Planning

### Gorsebrook Research Institute

**Twohig, Peter L.**, B.A., M.A. (Saint Mary's), Ph.D. (Dalhousie), Associate of Atlantic Canada Studies, Executive Director

### Human Resources

**Squires, Kim**, B.A., B.Ed., M.B.A. (Saint Mary's), C.H.R.P., Senior Director

### Information Technology Systems and Support

**Sisk, Perry**, B.Sc. (Dalhousie), Senior Director

### International Activities

**Maureen Woodhouse**, B.A. (Carleton), M.B.A. (Saint Mary's), Acting Director

### Library

**DeYoung, Marie**, B.A. (St. Francis Xavier), Dip. L.T. (Ryerson), M.L.S. (Dalhousie), University Librarian

**Cannon, Susan**, Manager of Access Services, B.F.A. (NSCAD)

**Carter, Nicole**, B.A., M.L.I.S. (British Columbia), M.A. (Carleton), Reference and Research Librarian

**Cook, Hansel**, B.A. (Dalhousie), M.L.I.S. (British Columbia), Archives, Special Collections and Records Librarian

**Harrigan, Cindy**, B.A., B.Ed. (Saint Mary's), M.L.I.S. (Dalhousie), Instructional Development Librarian

**Houlihan, Ron**, B.A. (Saint Mary's), M.L.I.S. (Dalhousie), Promotional Services Librarian

**Thomson, Joyce**, B.A., M.L.S. (Dalhousie), Digital Services Librarian

**Webster, Peter**, B.A. (Alberta), M.L.S. (Dalhousie), Associate University Librarian, Information Systems

**Winchcombe, Terri**, Manager of Acquisition Services

**Wood, Sally**, B.A. (Saint Mary's), LL.B., M.L.I.S. (Dalhousie), Collection Development Librarian

### Enrolment Services

**Braswell, Marie**, B.A. (Thomson Rivers), M.A. (Royal Roads), Associate Registrar – Admissions and Recruitment

**Hallett, Leslie**, C.G.A., Associate Registrar – Service Centre

**Peters, David**, B.Comm. (Saint Mary's), Associate Registrar – Systems and Records

### Sobey School of Business Advisory Council

**Keith, John (Jack) R.**, Hon. D.Comm. (Saint Mary's), C.M., Chairperson

### Senate Office

**Bell, Barb**, Secretary to Senate

### Conflict Resolution Advisor

**Brownlow, Bridget**, B.A. (Dalhousie), Con. Res-Cert. (JIBC)

### Student Services

**Brophy, Tom**, M.Ed (Memorial), Senior Director

**Morris, Sarah**, B.Sc., M.Ed. (Dalhousie), Assistant Director

**Leitch, David**, B.A., B.Ed., B.Sc., M.A., Ph.D. (Dalhousie), Director, Atlantic Centre for Support of Students with Disabilities

### The Teaching English as a Second Language Centre

Zak McLaren, Director

### The Writing Centre

**Hotson, Brian**, Director

## Awards to Faculty and Staff

Annually there are four prestigious awards presented to members of faculty and staff.

### a. The Reverend William A. Stewart, S.J., Medal for Excellence in Teaching

In 1983, the Alumni Association, in cooperation with the Faculty Union and the Students' Representative Council, established the Reverend William A. Stewart, S.J., Medal for Excellence in Teaching. This award is open to faculty members who have made an extraordinary contribution to the education of Saint Mary's students through teaching in the University's tradition of quality undergraduate education. Nominations are invited from alumni, students, and faculty members. This medal is presented at Spring Convocation together with a cheque for \$1,500. Previous winners of this prestigious award are:

1983	Professor David Hope (Accounting)
1984	Professor Dermot Mulrooney (Engineering)
1985	Dr. David Perrier (Sociology)
1986	Dr. John Young (Chemistry)
1987	Professor Edward McBride (Political Science)
1988	Dr. Jack Ginsburg (Chemistry)
1989	Dr. Peter March (Philosophy)
1990	Dr. Andrew Seaman (English)
1991	Dr. Phil Street (Psychology)
1992	Dr. Francis Phillips (Education)
1993	Dr. Janet Baker (English)
1994	Dr. Cyril Byrne (English)
1995	Professor Nicola Young (Accounting)
1996	Dr. Ronald Landes (Political Science)
1997	Dr. Paul Muir (Mathematics and Computing Science)
1998	Dr. David Cone (Biology)
1999	Dr. Robert Singer (Chemistry)
2000	Dr. Eric Lee (Finance and Management Science)
2001	Dr. Janet Gregory (Finance and Management Science)
2002	Dr. Gillian Thomas (English)
2003	Dr. Janet Hill (English)
2004	Dr. Porter Scobey (Mathematics and Computing Science)
2005	Dr. Adam Sarty (Astronomy and Physics)
2006	Dr. Edna Keeble (Political Science)
2007	Dr. Stephen Davis (Anthropology)
2008	Dr. Shelagh Crooks (Philosophy)
2009	Dr. Pawan Lingras (Mathematics and Computing Science)
2010	Dr. Barry Gorman (Accounting)
2011	Dr. Brian Bartlett (English)
2012	Dr. Coleen Barber (Biology)
2013	Dr. Gene Barrett (Sociology and Criminology)
2014	Dr. Maryanne Fisher (Psychology)
2015	Dr. Ellen Farrell (Management)
2016	Dr. Thomas Kozloski (Accounting)

### b. The Dr. Geraldine Thomas Educational Leadership Award

In 2007, the Quality of Teaching Committee established an Educational Leadership Award to recognize the long-term commitment of faculty who develop, enhance and promote the quality of teaching and learning at Saint Mary's, and beyond. The Committee gratefully acknowledges the support of the Saint Mary's University Faculty Union for this Award.

The Award is named for Dr. Geraldine Thomas, national teaching award winner, and founding member of the Quality of Teaching Committee. Dr. Thomas has spent the past twenty years of her academic career supporting efforts which improve teaching and learning within the University, the Atlantic region, and nationally.

2007	Dr. Shelagh Crooks (Philosophy)
2008	Dr. Adam Sarty (Astronomy and Physics)
2011	Dr. Howard Donohoe (Geology)
2013	Dr. Valerie Creelman (Communications)
2014	Dr. Paul Muir (Mathematics and Computing Science)
2015	Roxanne Richardson (Environmental Science)

### c. President's Award for Excellence in Research

Established in 1989, this annual award honours outstanding research conducted by a full-time faculty member who has been employed at the University for at least three years. Presentation of the award takes place at Convocation. A rigorous nomination procedure has been delineated whereby each Dean of a Faculty may select one member of his/her Faculty who has been nominated by a faculty research, and whose candidacy he is prepared to support. Other sponsors must be researchers, at least two of whom must be from outside Saint Mary's University. The award is adjudicated by the Research Committee of the Faculty of Graduate Studies and Research, which has the authority to decide which nominee, if any, is deserving of the award. The selection criteria consists of two component parts, namely productivity, whereby the nominee must have a record of continued exceptional contribution to research/scholarship; and secondly, recognition. The nominee must have attained national or international recognition as an authority in a major field of knowledge. The President's Award for Excellence in Research consists of a framed certificate presented at Fall Convocation together with a cheque for \$1,500. Previous winners of this significant award are:

1989	Dr. George Mitchell (Astronomy)
1990	Dr. John Chadwick-Jones (Psychology)
1991	Dr. John Reid (History/Atlantic Canada Studies)
1992	Dr. Jaroslav Dostal (Geology)
1993	Dr. Arthur Monahan (Philosophy)
1994	Dr. Michael Zaworotko (Chemistry)
1995	Dr. John Young (Chemistry)
1996	Dr. Terry Wagar (Management)
1997	Dr. David Turner (Astronomy)

1998	Dr. Colin Howell (History/Atlantic Canada Studies)
1999	Dr. Georgia Pe-Piper (Geology)
2000	Dr. Henry Veltmeyer (Sociology)
2001	Dr. Bert Hartnell (Mathematics and Computing Science)
2002	Dr. Andrew Harvey (Economics)
2003	Dr. Stephen Davis (Anthropology)
2004	Dr. J. Victor Owen (Geology)
2005	Dr. David Guenther (Astronomy and Physics)
2006	Dr. Kevin Kelloway (Management and Psychology)
2007	Dr. Hugh Millward (Geography)
2008	D. Albert Mills (Management)
2009	Dr. Robert McCalla (Geography)
2010	Dr. Goran Stanivukovic (English)
2011	Dr. Tony Charles (Management Science and Environmental Science)
2012	Dr. John McMullan (Sociology & Criminology)
2013	Dr. Jason Clyburne (Environmental Science)
2014	Dr. Jean Helms Mills (Management)
2015	Dr. Alexandra Dobrowolsky (Political Science)
2016	Dr. Pawan Lingras (Mathematics and Computing Science)

#### d. The President's Awards for Exemplary Service

Created in 2004, the President's Awards for Exemplary Service at Saint Mary's University are presented each year to recognize employees who have demonstrated outstanding service and/or who have made significant contributions to the University community beyond that normally expected for their positions.

The awards are open to full-time employees of Saint Mary's University who have served a minimum of five (5) years of continuous service prior to nomination and who have not previously received the award. A person may be nominated multiple years providing he/she hasn't received an award.

The awards will be based on outstanding service to the University in any one or more of the following areas:

1. Providing continued excellent service to the Saint Mary's community.
2. Enhancing the quality of life for students, employees, and/or visitors to the University.
3. Having a demonstrated record of innovation within the University in new programs/services or making significant improvements to existing programs or service, and
4. Advancing the reputation of Saint Mary's University regionally, nationally and/or internationally.

One award of \$1,500 may be presented annually to a faculty member and two awards of \$1,500 each may be presented annually to support and administrative employees.

2004

Dr. Elizabeth Chard (Registrar)  
Joan Whitney (Office of the Dean of Arts)  
Dr. Richard Chesley (Accounting)

Diane Gorman (Facilities Management) Honorable Mention

2005

Susan Doré (Office of the Dean of Science)  
Ann MacDonald (Conference Services)  
Dr. Malcolm Butler (Astronomy and Physics)  
Kathy Mullane (Athletics) Honorable Mention

2006

Judy Grandy (Bookstore)  
Bill Promaine (University Security)  
Dr. Vic Catano (Psychology)

2007

Pat Bishara (External Affairs)  
Carl Grandy (Facilities Management)  
Dr. James Morrison (History)  
Randolph Corney (Geology) Honorable Mention

2008

Margaret Anne Bennett (Centre for Academic and Instructional Development)  
Margaret Harry (English)  
David Lane (Astronomy and Physics)

2009

Rose Daurie (Math and Computing Science)  
Donnie Jeffrey (Student Services)  
Doug Vaisey (Patrick Power Library)  
Honorable Mention  
Dr. Robert McCalla (Geography)

2010

Dr. Robert Konopasky (Psychology)  
Randy Corney (Geology)  
Trevor Steinburg (Athletics and Recreation)

2011

Dr. Jeff Power (Accounting)  
Mae Boettcher (Facilities Management)  
Ronald Cochrane (Financial Services)  
Margaret Schenk (Graduate Studies and Research))

2012

Dr. Francis Boabang (Finance)  
Lois Larson (Sobey School of Business)  
Dr. Shripad Pendse (Management)  
Jennifer Stewart (Information Technology Systems and Support)

2013

Darlene McNeil (Facilities Management)  
Rachelle Warner (Modern Languages and Classics)

2014

Dr. Adam Sarty, (Astronomy & Physics)  
Barbara Bell (Senate Office)

2015

Dr. Donald Naulls (Political Science)  
Ms. Bridget Brownlow (Conflict Resolution Officer)  
Mr. Lindsay Thornton (ITSS)  
Ms. Donna Filek (Sobey School of Business)

2016

Dr. Alexandre Avdulov (Modern Languages)

Susan Dauphinee (Finance, Information Systems and  
Management Science)

Courtney Merriam (Dean of Science Office)