

University of Windsor

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University of Windsor Graduate Calendars

University of Windsor Calendars

Fall 2018

University of Windsor Graduate Calendar 2018 Fall

University of Windsor

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GRADUATE CALENDAR

The Graduate Calendar is a comprehensive guide to all graduate programs and courses available at the University of Windsor. It outlines academic regulations and standards, program degree requirements, and general University policies.

The online calendars are the official calendars. The University of Windsor publishes graduate web calendars on a semester basis (Fall, Winter, and Spring).

Note: Students may follow the academic rules and program regulations set out in the calendar of the term in which they were first admitted to the program or any subsequent calendar.

FEDERATED AND AFFILIATED INSTITUTIONS:

Assumption University

Canterbury College

Iona College

The University of Windsor is a full member of the Association of Universities and Colleges of Canada, and the International Association of Universities.

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[Programs with a Co-op or Internship option are identified in the list.]

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A

[Applied Computing \(MAC\) Degree](#)

[Applied Economics and Policy \(MAEP\)](#)

[Automotive Engineering \(International Master of Engineering with Politecnico di Torino\) \(MAsc in Automotive Engineering/Laurea Magistrale in Automotive Engineering Dual Degree Program\)](#)

[Actuarial Science \(M.Act.Sc\)](#)

[Argumentation Studies \(PhD\)](#)

B

[Biological Sciences \(MSc\)](#)

[Biological Sciences \(PhD\)](#)

[Business Administration \(MBA\)](#)

[Business Administration \(MBA\) \(Co-op\)](#)

[Business Administration \(MBA\) \(Fast-track MBA with Professional Accounting Specialization\)](#)

[Business Administration \(MBA for Managers and Professionals\)](#)

[Business Administration/Bachelor of Laws \(Integrated MBA/JD\)](#)

See also [Management](#)

C

[Chemistry and Biochemistry \(MSc\)](#)

[Chemistry and Biochemistry \(PhD\)](#)

[Civil Engineering \(MAsc\)](#)

[Civil Engineering \(MEng\) \(Co-op/Internship Option\)](#)

[Civil Engineering \(PhD\)](#)

[Communication and Social Justice \(MA\)](#)

See also [Sociology and Social Justice](#)

[Computer Science \(MSc\) \(With and without Co-op\)](#)

[Computer Science \(PhD\)](#)

[Criminology \(MA\)](#)

E

[Earth Sciences \(MSc\)](#)

[Earth Sciences \(PhD\)](#)

[Economics \(MA\)](#)

[Education \(MEd\)](#)

[Education \(MEd\) - International Cohort](#)

[Educational Studies \(PhD Joint program\)](#)

[Electrical Engineering \(MAsc\)](#)

[Electrical and Computer Engineering \(MEng\) \(Co-op/Internship Option\)](#)

[Electrical Engineering \(PhD\)](#)

[Engineering Materials \(MAsc\)](#)

[Engineering Materials \(MEng\)](#)

[Engineering Materials \(PhD\)](#)

[Engineering Management \(Master of Engineering Management\)](#)

[English \(MA\)](#)

[Environmental Engineering \(MAsc\)](#)

[Environmental Engineering \(MEng\) \(Co-op/Internship Option\)](#)

[Environmental Engineering \(PhD\)](#)

[Environmental Science \(MSc\)](#)

[Environmental Science \(PhD\)](#)

F

Film and Media Arts (MFA)

H

History (MA)

Human Kinetics (MHK)

I

Industrial Engineering (MAsc)

Industrial Engineering (MEng)

Industrial and Manufacturing Systems Engineering (PhD) (Multi-Disciplinary Program)

J

K

Kinesiology (PhD)

L

Law (LLM)

M

Management (MM)

Mathematics and Statistics (MSc)

Mathematics and Statistics (PhD)

Mechanical Engineering (MAsc)

Mechanical Engineering (MEng) (Co-op/Internship Option)

Mechanical Engineering (Automotive Option) (MEng) (Co-op/Internship Option)

Mechanical Engineering (PhD)

Medical Biotechnology (MMB)

N

Nursing (PhD)

Nursing (MScN)

Nursing (MN) - Advanced Clinical Practice Field, Leadership in Nursing Field

Nursing (MN) - Primary Health Care Nurse Practitioner Field

Nursing - Primary Health Care Nurse Graduate Diploma

Nursing - Graduate Diploma in Advanced Practice Oncology/Palliative Care

See also Graduate Diploma programs

P

Philosophy (MA)

Physics (MSc)

Physics (PhD)

Political Science (MA)

Political Science (MPP Articulation)

Psychology (PhD and MA)

S

Social Work (MSW) (Internship)

Social Work (Phd)

Social Work and Juris Doctor (Joint Program) (MSW/JD)

Social Data Analysis (MA) (*Note: As of Fall 2014 there are no new admissions to this program.*)

Sociology (MA)

Sociology with Specialization in Social Justice (PhD)

See also Communication and Social Justice

V

Visual Arts (MFA)

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Departments/Program Areas Listed Alphabetically.

A
Arts, Humanities and Social Sciences, Dean's Office

B
Biological Sciences
Business Administration

C
Chemistry and Biochemistry
Civil and Environmental Engineering
Communication, Media and Film
Computer Science
Creative Arts

E
Earth and Environmental Sciences
Economics
Education
Electrical and Computer Engineering
English Language, Literature, and Creative Writing
Engineering
Environmental Science (GLIER)

H
History
Human Kinetics

K
Kinesiology

L
Law and Social Work

M
Mathematics and Statistics
Mechanical, Automotive and Materials Engineering

N
Nursing

P
Philosophy
Physics
Political Science
Psychology

S
Social Work
Sociology, Anthropology and Criminology

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Programs (Listed by Department)	Faculty of Arts, Humanities and Social Sciences (FAHSS)
Programs (Listed by Faculty)	Dean's Office
Graduate Diploma Programs	Communication, Media and Film
	English Language, Literature, and Creative Writing
	History
	Philosophy
	Political Science
	Psychology
	School of Creative Arts
	Social Work
	Sociology, Anthropology and Criminology
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	Faculty of Education
	Faculty of Engineering
	Engineering
	Civil and Environmental Engineering
	Electrical and Computer Engineering
	Mechanical, Automotive and Materials Engineering
	Faculty of Human Kinetics
	Faculty of Nursing
	Faculty of Science
	Biological Sciences
	Chemistry and Biochemistry
	Computer Science
	Earth and Environmental Sciences
	Economics
	Great Lakes Institute for Environmental Research
	Mathematics and Statistics
	Physics
	Faculty of Law

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[Argumentation Studies \(14-79-xxx\)](#) (*administered through the Office of the Dean of the FAHSS*)

[Biological Sciences \(55-xxx\)](#)

[Business Administration \(70-xxx, 71-xxx, 72-xxx, 73-xxx, 74-xxx, 75-xxx, 76-xxx, 77-xxx, 78-xxx\)](#)

[Communication, Media, and Film \(40-xxx\)](#)

[Chemistry and Biochemistry \(59-xxx\)](#)

[Computer Science \(60-xxx\)](#)

[Earth and Environmental Sciences \(61-xxx\)](#)

[Economics \(41-xxx\)](#)

[Education \(80-xxx\)](#)

[Engineering \(85-xxx\)](#)

[Engineering - Civil and Environmental Engineering \(87-xxx, 93-xxx\)](#)

[Engineering - Electrical and Computer Engineering \(88-xxx\)](#)

[Engineering - Mechanical, Automotive, and Materials Engineering \(89-xxx, 91-xxx, 92-xxx\)](#)

[English Language, Literature, and Creative Writing \(26-xxx\)](#)

[Environmental Science \(68-xxx\)](#)

[General, Graduate Studies \(09-xxx\)](#)

[History \(43-xxx\)](#)

[Kinesiology \(95-xxx\)](#)

[Law and Social Work \(Joint Program\)](#)

[Mathematics and Statistics \(62-xxx, 65-xxx, 97-xxx\)](#) (*includes Actuarial*)

[Nursing \(63-xxx\)](#)

[Philosophy \(34-xxx\)](#)

[Physics \(64-xxx\)](#)

[Political Science \(45-xxx\)](#)

[Psychology \(46-xxx\)](#)

[School of Creative Arts \(27-xxx, 28-xxx\)](#)

[Social Work \(47-xxx\)](#)

[Sociology, Anthropology and Criminology \(48-xxx\)](#)

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APPLICATION INFORMATION

Application for admission may be made online at www.uwindsor.ca/graduate.

Applicants are advised to check departmental listings for deadlines. If an earlier deadline is not specified, complete applications, and the application fee should be submitted no later than July 1 for September admission, November 1 for January admission, and March 1 for May admission; however, applicants are advised that offers of admission will be made prior to and following these dates to qualified applicants. All positions may be filled before the deadline dates. Early applications are advised.

International applicants are required to obtain a student visa. This is the sole responsibility of the applicant. Applicants are advised that Canadian government processing of visa applications may take several months. It is recommended that international students apply at least 6-8 months prior to the semester in which they desire admission.

Admission to the Faculty of Graduate Studies is by letter of offer from the Dean of Graduate Studies.

A decision to admit or not to admit is made by the Dean on the basis of a recommendation received from an academic unit, together with the documents required for admission.

Applicants who have not been admitted to the Faculty of Graduate Studies may upgrade their qualifications and reapply. A subsequent decision would be made on the basis of a further recommendation from the academic unit and the updated file.

DEFERRED APPLICATIONS

DOCUMENTATION REQUIRED AND ENGLISH LANGUAGE PROFICIENCY REQUIREMENT Senate Policy on Graduate English Language Proficiency Requirement

ADMISSION LEVELS (an applicant may be admitted to a graduate program as a master's student, qualifying master's student, transitional master's student, probationary master's student, or a PhD student)

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POSTGRADUATE AWARDS AND FINANCIAL AID

ELIGIBILITY FOR GRADUATE FUNDING

Full-time graduate students in research-based programs may receive funding from three main sources: scholarships (internal and external), Graduate Assistantships (GAs), and Research Assistantships (RAs). This latter category is Department or even supervisor specific. Eligibility for the first two, scholarships and GAs, are subject to constraints dictated by the funding sources and, in the case of GAs, by the Collective Agreement and the Department.

One of the constraints upon funding eligibility is temporal and depends upon continuous registration. Support from the University of Windsor at the Master's level ~~can~~ may be offered within the first two years (six terms) from the first term of registration at the Master's level (M2). Support from the University of Windsor at the Doctoral level ~~can~~ may be offered within the first four years (twelve terms) from the first term of registration at the Doctoral level (D2). While external awards are administered according rules defined by the source agencies, and these can differ slightly from program to program, their rules regarding eligibility are similar to the above listed.

In order to retain support once it is awarded, students must maintain continuous full-time registration; rare exceptions can be made to accommodate a Leave of Absence for medical, maternity or paternity leave. Where leave is granted for other reasons, the term(s) on leave will diminish the number of terms that a student was eligible to receive support.

Failure to register by the posted late registration deadline for each semester will result in forfeiture of support for that semester. Students who are eligible to apply for external awards are obliged to do so, or they may forfeit their funding from the University of Windsor.

For up-to-date detailed information on the funding available to graduate students, please refer to the website of the Faculty of Graduate Studies (www.uwindsor.ca/graduate).

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REGISTRATION

Registration

Students whose applications for admission to graduate study have been approved for full- or part-time study should present themselves to their program advisors prior to registration on the dates recorded in the section "[Academic Dates](#)".

Categories of Registration (includes definitions of "full-time graduate student" and "part-time graduate student")

Graduate Registration Regulations (includes information on leaves of absence, non-degree registration and auditing courses)

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AUTHORSHIP AND PLAGIARISM

Authorship

The Senate approved Policy on Authorship is available by contacting the University Secretariat.

Plagiarism

A confirmed incident of plagiarism will result in a sanction ranging from a verbal warning, to a loss of credit in the course, to expulsion, as per [Bylaw 31: Academic Integrity](#).

In case of any doubt, students are strongly urged to consult with the instructor or thesis supervisor. In cases where students feel that their intellectual property or copyrighted material has been plagiarized, complaints should be made in writing to the Dean of Graduate Studies.

Click on the link for the [Graduate Studies Policy on Plagiarism](#).

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GRADUATION

In order to allow the necessary time for the printing of the diploma and the Convocation program, the candidate's completed work must be approved by the Faculty of Graduate Studies and the major paper, project, thesis or dissertation, if one is presented, must be received by the Faculty of Graduate Studies at least two weeks before Convocation following requirements prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.

Registration in any program does not constitute an application for a degree or diploma. An "Application to Graduate" must be filed with the [Registrar's Office](#) by the specified date prior to the [Convocation](#) at which the applicant expects to graduate.

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FACULTY OF GRADUATE STUDIES

OFFICERS OF ADMINISTRATION

(Ext. 2107)

Dean

Dr. Patricia L. Weir

Associate Dean

Dr. James W. Gauld

Dr. Deborah Kane

GRADUATE COUNCIL

One graduate faculty representative from each discipline or group of disciplines offering an OCGS approved program.

Ex-officio Members (with vote): Dean of Graduate Studies; Associate Dean, Graduate Studies; Vice-President, Research and Innovation;

President of the Graduate Student Society; University Librarian;

Four (4) decanal representatives, elected by the Faculty Deans;

Other members, to a maximum of two invited from the academic and/or administrative support services (non-voting);

Nine additional student representatives from the Graduate Student Society

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COURSE NUMBERING SYSTEM AND FACULTY AND PROGRAM CODES

Each course is identified by a three-part number. The first part refers to the Faculty, the second part to the subject area, the third to the level of the course. Thus, the course 02-46-501 would be a course in the Faculty of Arts and Social Sciences (02-), in the subject area of Psychology (46-) and would be at the graduate level. 100, 200, 300, and 400 numbers indicate undergraduate courses, while 500, 600 and 700 numbered courses are graduate level courses.

Note: some courses have stated prerequisites which are prior requirements for entry to a course. Students who do not satisfy the prerequisite for a course, or who in the opinion of the instructor do not possess an equivalent background to that of the stated prerequisite, may not register for the course, and may be removed if they register inappropriately.

Faculty of Arts and Social Sciences	01- (Arts)/02- (Social Sciences)/General (14-)
Faculty of Science	03-
Faculty of Business Administration	04-
Faculty of Education	05-
Faculty of Engineering	06-
Faculty of Human Kinetics	07-
Faculty of Law	08-
Faculty of Nursing	11-

Program/Course Codes

Note: The Program/Course codes are preceded by the relevant Faculty code.

Arts and Science, 14-56-

Additional Qualification Courses, 05-79-

Biology, 03-55-

Business Administration:

Accounting, 04-70-

Business Strategy and Entrepreneurship, 04-75-

Finance, 04-72-

Management and Labour Studies, 04-71-

Management Science, 04-73-

Marketing, 04-74-

Chemistry and Biochemistry, 03-59-

Civil and Environmental Engineering:

Civil, 06-87-

Environmental, 06-93-

Languages, Literatures and Cultures:

Aboriginal Studies, 01-06-

Intercultural Studies, 01-07-

Multicultural Studies, 01-08-

Asian Studies, 01-10-

Classical Studies, 01-11-

Greek & Roman History, 01-12

Greek Languages & Literature, 01-13-

Latin Languages & Literature, 01-14-

German, 01-15-

Italian, 01-21-

Spanish, 01-23-

Communication Studies: 02-40-

Computer Science, 03-60-

Dramatic Art: 01-24-

Earth Sciences:

Geology, 03-61-

Environmental Science, 03-66-

Geography, 03-67-

Economics, 03-41-

Education, 05-80-

Electrical and Computer Engineering, 06-88-

English, 01-26-

Environmental Studies, 14-58-

Forensics, 14-57-
French Studies, 01-29-
General Engineering, 06-85-
Geography: 02-42-
Great Lakes Institute for Environmental Research - Environmental Science, 03-68-
History, 02-43-
Industrial and Manufacturing Systems Engineering, 06-91-
Kinesiology, 07-95-
Labour Studies: 02-54-
Law service courses, 08-99-
Law courses, 08-98-
Mathematics and Statistics:

Mathematics, 03-62-
Statistics, 03-65-

Mechanical, Automotive, and Materials Engineering:

Mechanical, 06-92-
Automotive, 06-94-
Materials, 06-89-

Music:

Music Academic Studies, 01-32-
Music Performance Studies, 01-33-

Nursing, 11-63-
Philosophy: 01-34-
Physics, 03-64-
Political Science: 02-45-
Psychology: 02-46-
Social Justice: 02-38-
Social Work: 02-47-
Sociology and Anthropology:

Sociology, Criminology, 02-48-
Anthropology, 02-49-
Planning, 02-50

Visual Arts:

Visual Arts, 01-27-
Art History, 01-28-

Women's Studies, 02-53-

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RESEARCH INSTITUTES

THE GREAT LAKES INSTITUTE FOR ENVIRONMENTAL RESEARCH (GLIER)

The Great Lakes Institute for Environmental Research (GLIER) is a world-class combination of researchers, graduate programs, facilities and location - on the Canada-US border at the heart of the world's most economically significant freshwater system.

GLIER research is currently focussed on two interrelated themes that assess the impact of multiple stressors on large lakes and their watersheds. The stressors include metal and organic chemical contamination, species invasions, climate change, harvesting of populations, nutrient enrichment, and habitat destruction. The themes are environmental chemistry and toxicology, and conservation and resource management. GLIER's 5200 m², tri-level, dedicated facility on the Detroit River is without parallel in Canada. It includes over 25 extensively equipped laboratories, offices for researchers and post-doctoral and graduate students, and conference and meeting rooms. GLIER maintains a private boat launch on the Detroit River and has dedicated boats.

GLIER has the distinction of housing the only university-based environmental analytical laboratory in Canada accredited by the Canadian Association of Environmental Analytical Laboratories (CAEAL) to international standards of performance.

Further details of activities and facilities appear on GLIER's website at www.uwindsor.ca/glier.

The Environmental Science graduate programs are offered through GLIER. See [Environmental Science](#).

FLUID DYNAMICS RESEARCH INSTITUTE

The Fluid Dynamics Research Institute was founded to foster interdepartmental and inter-Faculty research and postgraduate teaching related to the dynamics of fluids. Members conduct basic and applied research, and are committed to providing a broad training for graduate students in all aspects of fluid mechanics and heat transfer. Members are drawn from Mechanical Engineering, Civil and Environmental Engineering, and Applied Mathematics. Research ranges from theoretical studies on stability and exact solutions to enhancement of flow measurement techniques to implementation of commercial computer codes and development of new codes for industrial problems. Application areas include civil engineering, environmental engineering, the automotive, defence and petroleum industries, biomechanics and aeronautics. Graduate students affiliated with Institute members in their research projects will register in the member's department and complete the degree requirements of that department.

Further details are available from <http://venus.uwindsor.ca/research/fdri/index.htm>.

INSTITUTE FOR DIAGNOSTIC IMAGING RESEARCH

The University of Windsor Institute for Diagnostic Imaging Research (the "Institute") is a multi-disciplinary collaborative research and innovation consortium dedicated to the development of innovative diagnostic imaging technologies and products using advanced and diverse imaging techniques. The Institute will develop intellectual property that will strengthen the University's ability to directly help diversify the region's economic sectors and increase the general competitiveness of the local region.

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STATEMENT OF RESPONSIBILITY OF THE UNIVERSITY

1. The content of this Calendar is provided for the general guidance of the student and is not intended to make any contractual commitments therefor. The Calendar is accurate at the time of publication, but programs, courses, staffing, etc. are subject to change from time to time as deemed appropriate by the University of Windsor in order to fulfill its role and mission, or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and, unless specified otherwise, are effective when made. The official University of Windsor academic calendars are: the Undergraduate Web Calendar, the Graduate Web Calendar, and the Faculty of Law Calendar.

2. This Calendar represents the University of Windsor's best judgment and projection of the course of conduct of the University of Windsor during the periods addressed herein. It is subject to change due to forces beyond the University of Windsor's control or as deemed necessary by the University of Windsor in order to fulfill its educational objectives.

3. Advisors are provided to assist students in planning their academic programs. Advisors are not authorized to change established policy of the University of Windsor. Students are solely responsible for assuring that their academic programs comply with the policies of the University of Windsor. Any advice which is at variance with established policy must be confirmed by the appropriate Dean's Office.

4. Any tuition fees and/or other charges described herein are good faith projections for the academic year. They are, however, subject to change from one academic term to the next as deemed necessary by the University of Windsor in order to meet its financial commitments and to fulfill its role and mission.

5. There are other fees and charges which are attendant upon a student's matriculation at the University of Windsor. These fees or charges may be determined by contacting the University offices which administer the programs or activities in which the student intends to enroll or engage.

6. The University of Windsor reserves the right to terminate or modify program requirements, content, and the sequence of program offerings from term to term for educational reasons which it deems sufficient to warrant such actions.

Further, the University of Windsor reserves the right to terminate programs from term to term for financial or other reasons which it determines warrant such action. The content, schedule, requirements and means of presentation of courses may be changed at any time by the University of Windsor for educational reasons which it determines are sufficient to warrant such action. Programs, services, or other activities of the University of Windsor may be terminated at any time due to reasons beyond the control of the University of Windsor.

7. The course descriptions herein are based upon reasonable projections of faculty and faculty availability and appropriate curriculum considerations. The matters described are subject to change based upon changes in circumstances upon which these projections were based and as deemed necessary by the University of Windsor to fulfill its role and mission.

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Notification of Disclosure of Personal Information to Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrollment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrollment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from Statistics' Canada's web site: <http://www.statcan.ca> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.

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<ul style="list-style-type: none"> Foreword Glossary Search the Graduate Calendar Programs <ul style="list-style-type: none"> Programs (Listed Alphabetically) Programs (Listed by Department) Programs (Listed by Faculty) Graduate Diploma Programs Courses <ul style="list-style-type: none"> Alphabetical by Department Admission Information <ul style="list-style-type: none"> Application Information Awards and Financial Aid Registration Academic Regulations <ul style="list-style-type: none"> Faculty Regulations Additional Degrees Exam and Grading Procedures Authorship and Plagiarism Graduation Faculty of Graduate Studies Graduate Faculty Designation Calendars <ul style="list-style-type: none"> Undergraduate Calendar Previous Calendars Course Numbering System Research Institutes Statement of Responsibility Statistics Canada Disclaimer Notice of Disclosure, Confidentiality and Use of Personal Data Main University Secretariat 	<p>COMPUTER SCIENCE</p> <p>THE MASTER OF APPLIED COMPUTING (MAC) DEGREE</p> <p>The Master of Applied Computing is a professional program that will provide students with a solid foundation and knowledge of industry-oriented practical aspects of Computer Science, which will enable them to take up positions in the growing software industry in Canada and around the world.</p> <p>Admission Requirements</p> <p>In order to be admitted to the program, a student must hold a 4-year bachelor degree in Computer Science or related discipline with a minimum major average of 70% or an average of 77% or better in the last 2 years of study. Applicants are required to include a 'statement of interest' (maximum 2 pages) with their application that includes a description of a major technology project they have undertaken in the past 3 years.</p> <p>Students with a 4-year bachelor degree in other non-Computer Science disciplines will be eligible for admission if they are accepted into and complete the University of Windsor's one-year Bachelor of Computer Science for University Graduates program with a 70% average or better.</p> <p>Applicants are strongly encouraged to have a demonstrated background in computer science and mathematical foundations, advanced programming, hardware architecture and systems concepts. Admission is highly competitive and preference will be given to applicants who exceed the minimum requirements and who have demonstrated work experience in the field. Candidates who lack the recommended background may be considered for admission on a case by case basis.</p> <p>Candidates must demonstrate English proficiency by meeting or exceeding an IELTS score of 6.5 (or equivalent). If an applicant receives an IELTS English language proficiency score of less than 6.5 (or equivalent) they may be offered a conditional letter of acceptance pending successful completion of an approved English Language Training program, such as the University of Windsor's Centre for English Language Development's English Language Improvement Program (ELIP).</p> <p>Applicants must pass a successful interview with a representative or agent acting on behalf of the University of Windsor and submit two letters of reference.</p> <p>Degree Requirements</p> <p><i>Total courses:</i> 30 credit hours (8 courses – 3 credit hours each; plus 60-699 (Project/Internship), which is worth 6 credit hours)</p> <p>(a) 60-611. Advanced Software Engineering Topics 60-615. Advanced Database Topics 60-634. Internet Applications and Distributed Systems 60-654. Advanced Computing Concepts 60-656. Advanced Systems Programming 60-667. Networking and Data Security 60-699. Project/Internship (6.0 credit course)</p> <p>NOTE: The above courses, except 60-699, may be offered in an accelerated 4 or 6 week format.</p> <p>(b) <i>Two of the following:</i> 78-612. Finance in a Global Perspective 78-614. Marketing 78-613. Managing Employees 60-5xx: Any graduate level lecture course offered by the School of Computer Science, excluding 60-510 (Literature Review and Survey) and 60-590 (Directed Special Studies).</p> <p><i>Suggested Program Sequencing</i></p> <p>Term 1: Fall Semester (September - December) 60-615. Advanced Software Engineering Topics 60-654. Advanced Computing Concepts</p> <p>One of the following four: 78-613: Managing Employees, 78-614: Marketing, 78-612 Finance in a Global Perspective, 60-5xx: Any graduate level lecture course offered by the School of Computer Science, excluding 60-510 (Literature Review and Survey) and 60-590 (Directed Special Studies)..</p> <p>Term 2: Winter Semester (January - April) 60-615. Advanced Database Topics 60-656. Advanced Systems Programming</p> <p>One of the following four: 78-613: Managing employees, 78-614: Marketing, 78-612 Finance in a Global Perspective, 0-5xx:</p>
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Any graduate level lecture course offered by the School of Computer Science, excluding 60-510 (Literature Review and Survey) and 60-590 (Directed Special Studies)..

Term 3: Summer Semester (May - June)

60-634. Internet Application and Distributed Systems

60-667. Networking and Data Security

60-699. Project/Internship (2 terms)

Term 4: Fall Semester (July - December)

60-699. Project/Internship (2 terms)

NOTE: Course sequencing may change (except 60-699), particularly for Term 2 and Term 3.

Project/Internship Requirements

Students will be required to complete an approved software development project, with an industry partner or a faculty supervisor, as part of the 60-699 course. Students working with an industry partner may be required to work off-campus for their internship. Students will receive credit for the course 60-699 (worth 6 credit hours) upon successful completion of a two semester internship.

Standing Required for Continuation in the Program

Students must maintain an average of 70%. Students may be permitted to have at most two course grades between 60-69%, on a case by case basis, based on recommendation from the MAC program committee.

Standing Required for Graduation

In order to graduate, students must have an average of 70%. Students may be permitted to have at most two course grades between 60-69%, on a case by case basis, based on recommendation from the MAC program committee.

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Programs	Master of Applied Economics and Policy (MAEP)
Programs (Listed Alphabetically)	Admission Requirements
Programs (Listed by Department)	In order to be admitted to the program, a student must hold a 4-year bachelor degree with a minimum major average of B- (70%) or an average of B+ (77%) or better in the last 2 years of study. Applicants must have at least one undergraduate course in statistics, and introductory-level courses in microeconomics and macroeconomics. In exceptional cases, students not meeting these requirements can be admitted at the discretion of the Program Coordinator after consultation with the Advisory Board. In addition, two semesters of calculus, and a semester of intermediate microeconomics and macroeconomics are highly recommended, but not required.
Programs (Listed by Faculty)	Applicants are strongly encouraged to have a demonstrated background in economics and mathematical and statistical foundations. Admission is highly competitive and preference will be given to applicants who exceed the minimum requirements and who have demonstrated work experience in the field. Candidates who lack the recommended background may be considered for admission on a case by case basis.
Graduate Diploma Programs	Candidates must demonstrate English proficiency by meeting or exceeding an IELTS score of 6.5 (or equivalent). If an applicant receives an English language proficiency score of less than 6.5 (or equivalent) they may be offered a conditional letter of acceptance pending successful completion of an approved English Language Training program, such as the University of Windsor's Centre for English Language Development's English Language Improvement Program (ELIP), or submitting a successful English language test score.
Courses	Applicants must pass a successful interview with representative or agent acting on behalf of the University of Windsor.
Alphabetical by Department	Degree Requirements
Admission Information	Total Courses: 39 credit hours (13 courses - 3 credit hours each)
Application Information	(a) 41-601: Applied Microeconomics
Awards and Financial Aid	41-602: Applied Macroeconomics
Registration	41-603: Mathematics for Applied Economics
Academic Regulations	41-604: Applied Econometrics 1
Faculty Regulations	41-605: Applied Econometrics 2
Additional Degrees	41-606: Business Communication
Exam and Grading Procedures	41-607: Research Project in Economic Policy and Seminar
Authorship and Plagiarism	(b) Two of the following:
Graduation	41-373: International Economics: Trade
Faculty of Graduate Studies	41-374: International Economics: Finance
Graduate Faculty Designation	41-416: Urban and Regional Economics
Calendars	41-420: Industrial Organization Theory
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Course Numbering System	41-486: Public Sector Economics: Finance
Research Institutes	(c) Two of the following:
Statement of Responsibility	41-510: International Economics
Statistics Canada Disclaimer	41-550: Monetary Theory and Policy
Notice of Disclosure, Confidentiality and Use of Personal Data	41-580: Models of Strategic Behavior
Main University Secretariat	41-594 Special Studies in Economics
	(d) Two of the following (offered by the Masters of Management program):
	78-611: Accounting Concepts and Techniques
	78-612: Finance in a Global Perspective
	78-631: International Business
	78-636: International Financial Reporting
	78-637: International Financial Management
	78-655: Domestic Transportation and International Shipping
	<i>Note the following:</i>
	To improve communication skills, students will be required to complete a course in Business Communication (offered by CEPE) with short modules spread throughout the program.
	These modules are:
	Term 1: Learning strategies in North American universities
	Term 2: Norms of class participation, giving and receiving criticism graciously and productively
	Term 3: Working in a team, including dealing with personality differences
	Term 4: Training in using Linked-In
	Students will be required to complete a policy project to fulfill the requirements of Research Project in Economic Policy.

Topics would normally be of applied nature. Students would work on group projects involving statistical analysis and make group presentations.

**ECONOMICS COURSES AND APPLIED ECONOMICS COURSES
MASTER OF MANAGEMENT COURSES**

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International Masters in Automotive Engineering - consisting of:

International MASC in Automotive Engineering/Laurea Magistrale in Automotive Engineering (Dual Degree Program)

ADMISSION REQUIREMENTS

Admission will be granted, within the limits of program availability (initially 5 students/year) to University of Windsor students possessing a Bachelor of Applied Science degree in Mechanical Engineering (or equivalent engineering degree) from an accredited Canadian university. Standard admission requirements for entry in the Mechanical Engineering MASC program will be met. Applications will be reviewed by the coordinator for the International Master of Applied Science in Automotive Engineering program. Student application files will be forwarded to the Faculty of Graduate Studies, with a request for formal admission of those students approved by the program coordinator. Accepted students will be enrolled at the University of Windsor with M2 status (Master candidate) in the International Masters in Automotive Engineering.

For Politecnico di Torino students, admission will be granted, within the limits of program availability (initially 5 students/year) to Torino students possessing a Laurea [*Bachelor's degree*] in Automotive Engineering or Mechanical Engineering (or equivalent engineering degree) from an accredited European university. Student files will be reviewed by the program coordinator similar to the University of Windsor process. Accepted students will begin the first year in the Laurea Magistrale in Automotive Engineering at Politecnico di Torino.

Total courses: Three (3) Windsor courses and 60 ECTS credits at Torino (which equates to 3 courses at the Politecnico di Torino for the Torino students, and 30 ECTS of courses plus a 30-ECTS thesis for the Windsor students). The suggested course choices at each school will be streamed into four key areas: Manufacturing Management, Automotive Vehicle Design and Engineering, Automotive Powertrain and Virtual Engineering for Product Development.

Each student will be required to take at least one course in each of the above four areas plus two others of their choosing. In this way, all of the graduates of the proposed program will receive a well-rounded education in Automotive Engineering and an opportunity to build a significant level of specialized expertise in an area which is of particular interest to them.

Degree Requirements

(a) Three (3) Windsor graduate courses and an equivalent number of ECTS credits in courses in Italy. The total course requirements will be equivalent to the weight of study done to complete a Windsor Masters' degree in Engineering with a thesis (thus making the students eligible to continue their studies at the doctoral level).

The Torino students will complete 60 ECTS course credits and 3 Windsor graduate courses which makes them eligible for doctoral work in Europe when completed in conjunction with their major thesis project.

(b) Thesis Project

Each student will complete a thesis project in conjunction with the two industry companies. Thesis co-supervision will be by both Windsor and a Torino faculty member. For the purposes of the University of Windsor degree, the thesis committee will consist of the co-supervisors, an internal program reader, and an external program reader. Additional Committee members may be added to meet the requirements of the Torino program. The thesis project will be a substantial piece of work representing an advance on the state of the art of a character of that expected for a Masters degree in Engineering. The Windsor students will carry out much of their work in Fiat while they are in Italy and the Torino students will work on a project with Chrysler while they are in Canada. Each student in the program will complete a Masters of Applied Science thesis as is customary in the University of Windsor MASC program.

(c) The Windsor students will each complete either one or two 4-6 month internships under the Industrial Research and Development Internship (IRDI) program internship at the ARDC facility during the spring of their first year. Following that they will travel to Italy where they will do their thesis research at the facilities of Fiat Centro Research in Torino. The Italian students will perform their thesis research at the facilities of Chrysler Canada and potentially at Chrysler Corp. in the US for certain projects.

The program layouts are shown schematically below:

	Year 1 (University of Windsor)			Year 2 (Politecnico di Torino)		Comments
	Term 1	Term 2	Term 3	Sem. 1	Sem. 2	
University of Windsor students	1-2 courses	1-2 courses	1-2 courses	30 ECTS courses 30 ECTS thesis		<i>Total courses/credits = 3 courses in Windsor + 30 ECTS of courses and 30 ECTS for Thesis in Torino</i>
	3 Courses + Planning of Thesis			Industry-Academic Research Thesis		<i>Thesis</i>

Total:	60 ECTS		60 ECTS			Total 120 ECTS
Politecnico di Torino students	Year 1 (Politecnico di Torino)		Year 2 (University of Windsor)			Comments
	Sem. 1	Sem. 2	Term 1	Term 2	Term 3	
	60 ECTS courses		1-2 courses	1-2 courses	Project	Total courses/credits = 60 ECTS of courses in Torino + 3 courses in Windsor
	Planning of Major Industry-Academic Project (equivalent to Thesis)		3 courses + Major Industry-Academic Project Report (equivalent to Thesis)			Major Industry-Academic Project Report (equivalent to Thesis)
Total:	60 ECTS		60 ECTS			Total 120 ECTS

NOTE: The term “ECTS Course” refers to the *European Credit Transfer and Accumulation System*. It is an EU designation for a number of credit-hours that will be equivalent to a comparable number of University of Windsor graduate course credits (please see the note below on the ECTS). The total number of ECTS and Windsor credits undertaken by each student will be *at least* equal to that required to earn a traditional University of Windsor Masters of Applied Science degree.

NOTE: The Italian (Torino) MASc students will not be eligible for GA support while they are present in Windsor.

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MATHEMATICS AND STATISTICS

THE MASTER OF ACTUARIAL SCIENCE (M.Act.Sc)

Admission Requirements

Bachelor degree in a calculus-based quantitative discipline (e.g. Engineering, physics, chemistry, business) with at least a 70% average (or equivalent) overall, and good mathematics grades. Knowledge of calculus and matrix algebra is essential. Admission is limited and competitive. Up to two courses may be accepted for credit based on previous background (although the total fee remains the same.) Students from programs with a three year university degree would be admitted if their university course background in mathematics is strong.

Degree Requirements

Total Courses: 12

Year 1 Term 1:

97-501 Probability for Risk and Actuarial Science
97-502 Financial Mathematics, Theory of Interest
76-503 Introduction to Financial Management*

Year 1 Term 2:

76-512 Financial Management
97-503 Derivatives Markets I
97-505 Life Contingencies I

Year 1 Term 3:

97-504 Derivatives markets II
97-510 Microeconomics
97-520 Regression and Time Series

Year 2 Term 4

97-506 Life Contingencies II
97-507 Special Topics in Actuarial Science
97-511 Macroeconomics

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PhD in Argumentation Studies

The program provides expertise in the history, methods, and applications of argumentation scholarship as this interdisciplinary field has developed in the last six decades. Argumentation is defined as collaborative or competitive reasoning through verbal or visual means by which people strive to persuade others on any topic where information, knowledge, or claims conflict or are inconsistent. Different ways for analyzing and evaluating people's arguments address the methods and principles that may be involved, and provide the core subject matter for Argumentation Studies. This will include some attention to policy agendas, interpersonal reasoning, and individual cognition.

Admission Requirements

Students identified for the program will specify which research cluster they wish to work with, or detail a project that can be assigned to one of the clusters. This interest should be communicated in a personal statement provided by each student. The members of that cluster will give advice to the program's steering committee of the student's suitability with respect to their background and their intended research. This decision will be based on the statement, their CV and letters of reference. Given the interdisciplinary nature of the program, we would not expect a common background, so decisions will be made on the basis of past performance and letters of reference. Students will also be expected to have achieved a Master's degree (or equivalent professional experience) with an 80% or higher standing. Appropriate Master's programs for admission would include English or Communication Studies (with an emphasis on rhetoric), Rhetoric (with an emphasis on rhetorical theory or debate), Psychology (with an emphasis on reasoning, or bias), Computer Science (with an emphasis on modelling artificial intelligence), Law (with an interest in dimensions of evidence), Political Science (with an emphasis on conflict resolution or political reasoning), Philosophy (with an emphasis on informal logic), Linguistics (with an emphasis on discourse analysis), or Women's Studies (with an emphasis on gender bias and reasoning).

Equivalent professional experience will be assessed in terms of its relevance to Argumentation Studies and presence of background knowledge required for success on the planned project. But all admitted students will have to have shown evidence in their application that they have the requisite requirements for success in the program in terms of both their past education and having experience in a profession (such as law or policy analysis) that uses principles and methods characteristic of our program. The student's Advisory Committee will be drawn from the Research Cluster with which he or she is associated with on admission. The supervisory committee will determine the number of qualifying graduate courses (if any, to a maximum of three) and students will be informed of these requirements as part of their offer of admission.

Program of Study

Within the first term of the student's registration, his/her Advisory Committee will be formed except for the external examiner, who will be appointed during the final year of a student's study and research (unless the student's Advisory Committee wishes to bring the external in at the proposal stage). The Advisory Committee will be chosen in the manner detailed in Section "[PhD Program Requirements](#)" of the University of Windsor's Graduate Calendar and consist of the following members as a minimum: an independent examiner external to the university (chosen at the time of the proposal or prior to the final defence), one member from the university faculty but outside of the Argumentation Studies Graduate Program, and three Argumentation Studies Graduate Program members, drawn from the appropriate Research Cluster. The external examiner must be a Full or Associate Professor with expertise in the area being examined and a proven research record. He/she must be impartial to both the student's supervisor and the student. The Dean of the Faculty of Graduate Studies will choose the external examiner on the recommendation of the Argumentation Studies Graduate Program Steering Committee. The external examiner will normally attend the defence and submit a written report on the dissertation to the Dean of Graduate Studies. The final oral defence will be chaired by a designate of the Dean of Graduate Studies.

In order to complete the program:

Degree Requirements

79-500 History and Theories of Argumentation
79-501. Advanced Studies in Argumentation
79-798. Dissertation (*To be developed*)

Students must successfully complete History of Theories of Argumentation and Advanced Studies in Argumentation. However, in order to progress from fall to winter students must have a 77% average. The courses will be led by the Directors of the program with full faculty involvement on a rotating basis. The courses will be graded in accordance with university standards. All Ph.D. students who have successfully completed the course with a minimum grade of 77% will be expected to attend the courses as auditors in a subsequent year of their program.

Requirements to complete the degree are the two multi-disciplinary graduate seminar courses; preparation and defence of a Research Proposal; preparation and defence of an original dissertation.

Oral Qualifying Exam

Students will successfully complete during the first two years of enrolment in the program, an oral qualifying exam, administered by the student's Advisory Committee. Students will be required to possess comprehensive knowledge of their field of study as well as any ancillary fields relevant to the dissertation topic (as determined in advance by the Advisory Committee). It is in terms of ensuring success in this requirement that some students may be directed to take supplementary courses. Students will be evaluated on a satisfactory, unsatisfactory basis. Should a student be unsuccessful in the first attempt at the oral qualifying exam, they will be provided a detailed assessment by their committee and have the opportunity to take a second exam within six months. Students must be judged satisfactory on this background exam before completing their research proposal.

Dissertation

Students must successfully complete and defend a Research Proposal. The dissertation proposal is submitted to and evaluated by the student's Advisory Committee, including the faculty member from another program. Students are evaluated on a pass, fail basis. They will be required to submit a Research Progress Report to the Advisory Committee annually and meet with the committee every six months to discuss progress and research plans. Following this, students must complete an original research project reported in a dissertation. They must then defend the dissertation in a public lecture before the Advisory Committee, including external members.

COURSES: FAHSS

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	BIOLOGICAL SCIENCES
	THE MASTER OF SCIENCE DEGREE
	MSc in Biological Sciences - Learning Outcomes
	Admission Requirements
	1) Applicants with an honours degree in Biological Sciences or a related field may be admitted to the Master's Candidacy (M2) program.
	2) Applicants with a general B.Sc. degree in Biological Sciences or a related field may be admitted to the Master's Qualifying (M1) program.
	3) For the Behaviour and Neuroscience field, agreement with a research supervisor for supervision will also be required.
	Degree Requirements
	Students may pursue one of the following fields within the MSc in Biological Sciences: 1) Molecular/Cellular Biology; 2) Ecology, Evolution, Environment, and Behaviour; and 3) Behaviour and Neuroscience.
	1) Students admitted to the Master's Candidacy program will be expected to:
	(a) comply with the general regulations;
	(b) attend all departmental seminars in Biological Sciences (formal presentations of visiting speakers, graduate student seminars, thesis defense presentations and dissertation defense presentations) each year of full-time registration;
	(c) present a departmental seminar in each year of enrollment (the thesis defense may count as one of these);
	(d) successfully complete a minimum of two graduate courses with approval of the Master's Committee, courses may be in a cognate area. Statistics 65-453 (Statistics for Life/Social Sciences) may be allowed for graduate credit;
	(e) complete an original research project and embody it in a thesis;
	(f) defend the thesis orally at a public lecture or seminar.
	2) Students admitted to the Master's Qualifying program, besides meeting the minimum requirements of the Master's Candidacy program, are expected in the first year of the two-year program to achieve a level of qualification equivalent to an honours degree through research and a minimum of four courses.
	3) <i>Grading</i> : A student must maintain at least a 70% in each Biological Sciences course and at least a 70% average in any non-Biological Sciences courses.
	4) <i>Master's Committee</i> : Within one term of the student's registration in the program, the research committee will be formed and the names submitted to the Dean of Graduate Studies. The full committee will consist of at least three members - the research supervisor, one other faculty member from within Biological Sciences, and one University faculty member from outside of Biological Sciences.
	The student should meet with individual committee members on an informal basis at least twice a year. The committee, in turn, must meet to:
	(a) review and approve course work and the research proposal no later than six months into the program;
	(b) discuss the student's research and thesis at least six months before the anticipated time of the final oral examination;
	(c) participate in the final oral examination.
	<i>Research Progress</i> : Each year from the date of initial registration, the student must submit a Research Progress Report to and meet with his or her Master's committee. In addition, the student must review his or her research in a meeting with the Master's committee at least six months before the anticipated date of the final oral examination.
	<i>Research Thesis</i> : A thesis embodying the results of an original investigation in the student's major field is required of all candidates. The student must defend the thesis orally at a public lecture or seminar, which will be the final oral examination.
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BIOLOGICAL SCIENCES

THE DOCTOR OF PHILOSOPHY DEGREE

[PhD in Biological Sciences - Learning Outcomes](#)

In addition to the general requirements as set out in the [Faculty of Graduate Studies Regulations](#), the following requirements must be met by all students proceeding to the Ph.D. degree.

Applicants with an honours degree in Biological Sciences or related field and who have been judged to be outstanding students may be admitted directly into the Ph.D. program. Applicants holding an M.Sc. degree or equivalent from the University of Windsor or from another recognized university or college may be admitted to the Ph.D. program with advanced standing in course work as described below.

Degree Requirements

Students may pursue one of the following fields within the PhD in Biological Sciences: 1) Molecular/Cellular Biology; 2) Ecology, Evolution, Environment, and Behaviour; and 3) Behaviour and Neuroscience.

Course Work: Students proceeding toward the Ph.D. degree will follow one of the programs given below:

1) Students proceeding directly to the Ph.D. from an Honours B.Sc. degree will be expected to:

- comply with the general regulations;
- attend all departmental seminars in Biological Sciences (formal presentations of visiting speakers; graduate student seminars, thesis defense presentations and dissertation defense presentations) each year of full-time registration;
- present a departmental seminar in each year of enrollment (the dissertation defense may count as one of these);
- successfully complete a minimum of three (3) graduate courses. With the approval of the Doctoral Committee, courses may be in a cognate area. Statistics 65-453 (Statistics for Life/Social Sciences) may be allowed for graduate credit;
- complete a dissertation embodying the results of an original investigation;
- defend the dissertation at a public lecture or seminar.

Students recommended and approved for transfer into the Ph.D. program after having completed between 12 and 15 months and one course (1) with at least an A- grade of a M.Sc. degree in Biological Sciences at the University of Windsor will normally receive one credit during the M.Sc. program and require two more credits at the Ph.D. level for a total of three (3) courses.

2) Students entering into a Ph.D. program with an M.Sc. degree will be expected to:

- comply with the general requirements;
- attend all departmental seminars in Biological Sciences (formal presentations of visiting speakers, graduate student seminars, thesis defense presentations and dissertation defense presentations) each year of full-time registration;
- present a departmental seminar in each year of enrollment (the dissertation defense may count as one of these);
- successfully complete a minimum of two graduate courses which may be in a cognate area. With the approval of the Doctoral Committee, courses may be in a cognate area. Statistics 65-453 (Statistics for Life/Social Sciences) may be allowed for graduate credit;
- complete a dissertation embodying the results of an original investigation;
- defend the dissertation at a public lecture or seminar.

Grading: A student must maintain at least a 70% in each course in Biological Sciences and at least a 70% average in any non-Biological Sciences courses. Any student whose performance is deemed unsatisfactory in course work or research will be asked to withdraw.

Doctoral Committee: Within the first term of the student's registration, the doctoral committee will be formed except for the external examiner, who is to be appointed during the student's final year of study/research. The full committee will consist of at least five members; one must be from outside the University, one from the University faculty but outside Biological Sciences, and three must be within Biological Sciences. The research advisor will act as chairperson of this committee. The student should meet with individual committee members on an informal basis at least twice a year.

The doctoral committee must meet for the following:

- to review and approve course work and the research proposal no later than six months into the program;
- to prepare and administer the comprehensive examination within the first two years of the student's registration in the program;
- to discuss the student's progress within two months after the comprehensive examination. (The extramural committee member need not participate.);
- to discuss the student's research and dissertation at least two months before the anticipated time of the final oral examination;
- the final oral examination.

Research Progress: Each year from the date of initial registration, the student must submit a Research Progress Report to and meet with his or her doctoral committee. In addition, the student must review his or her research in a meeting with the doctoral committee at least six months before the anticipated date of the final oral examination.

Dissertation: Six months before the anticipated date of the final oral examination the student must review the research and dissertation in a meeting with the committee.

A dissertation embodying the results of an original investigation in the student's major field is required of all candidates. The dissertation is expected to be of a quality suitable for publication in a refereed biological journal.

Examinations:

(a) *Comprehensive Examination:* The primary purpose of the Comprehensive Examination is to ensure that the student demonstrates both a reasonable mastery of the field of specialization, and knowledge of broader areas of Biology; it is designed to test the student's command of knowledge and ability to integrate that knowledge. This examination must be completed within two years of the student's initial registration in the program. Prior to the examination, the student will have provided the doctoral committee with a written proposal outlining the background, approach and general expectations of the intended research project; however the Comprehensive Examination is not intended to be, and should not be limited to, a defense of this proposal. The Comprehensive Examination will normally be an oral examination administered by the doctoral committee, and chaired by the Biological Sciences Graduate Coordinator (or designate). The student's Academic Advisor will communicate the results of the examination and any recommendations to the student, and to the Biology Graduate Committee. Following the Comprehensive Examination the doctoral committee may assign the student appropriate remedial or supplementary course work. Successful completion of the examination and any remedial studies or course work recommended by the doctoral committee is prerequisite to the student's admission to candidacy in the doctoral program.

(b) Finally, the student will be requested to defend the dissertation orally at a public lecture or seminar (final oral examination).

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ODETTE SCHOOL OF BUSINESS

THE MASTER OF BUSINESS ADMINISTRATION DEGREE (MBA)

M.B.A. PROGRAM SEQUENCE

The program will consist of five teaching modules

Module 1: Business Fundamentals

76-501 Interpersonal Dynamics
76-502 Core Concepts of Accounting I
76-503 Introduction to Financial Management
76-505 Marketing Management.
76-511 Research Methodology

Module 2: New Venture

76-510 Core Concepts of Accounting II
76-512 Financial Management.
76-513 Human Resources Management.
75-690 Entrepreneurship: New Venture Formation and Management

Module 3: Managing Growth

76-504 Quantitative Techniques in Management
71-600 Business Ethics and Sustainability
74-631 Consumer Behaviour
75-611 Project Planning I

Module 4: Managing in a Mature Market

71-646 Dynamics of Business Negotiations
75-698 Strategic Management
76-514 Management Information Systems.
75-612 Project Planning II

Module 5: Specialization

Three 600-level business courses

The Major Paper

Students may choose a major paper option. All students choosing this option must have a detailed major paper proposal approved by at least two faculty members in the Odette School of Business. These two faculty members will have primary responsibility for supervising the student's work. The approved proposal application form must be submitted to the Assistant to the Dean in order to register for the major paper (76-796). An oral defence will be required.

The major paper will be graded, will receive six credits and will substitute for two 600-level non-specified courses.

The Thesis

Students may choose a thesis option. All students choosing this option must have a detailed thesis proposal approved by at least two faculty members in the Odette School of Business and by one faculty member external to the School but from within the University. An oral defence will be required.

The thesis will be graded, will receive twelve credits and will substitute for four 600-level non-specified courses.

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	ODETTE SCHOOL OF BUSINESS
	MASTER OF BUSINESS ADMINISTRATION DEGREE CO-OPERATIVE EDUCATION
	<i>Note: Admissions to the MBA Co-op Program will be suspended as of Fall 2008.</i>
	Course Requirements
	The M.B.A Co-op requires eleven 500-level courses in the first year.
	The major paper is weighted as two courses; the thesis as four. A student writing a major paper or thesis would require eight or six additional courses respectively. Fast Track students who do not complete a co-op work term will be required to complete a major paper in addition to the ten courses. 75-698 is required of all MBA students.
	Students will be allowed to pursue a general M.B.A. or choose one specific area of concentration. Areas of concentration include Business Strategy and Entrepreneurship, Finance, International Business, Marketing, Management and Labour Studies, Management Science and Production/Operations Management. To obtain an area of concentration, courses must be completed as follows:
	BUSINESS STRATEGY AND ENTREPRENEURSHIP
	75-680. Managing the International Enterprise 75-682. Manufacturing Strategy 75-690. Entrepreneurship: New Venture Formation and Management
	Plus any two of: 75-692. Topics in Strategic Management 74-639. Marketing Strategy and Planning 71-613. Leadership and Organizational Change
	FINANCE
	72-672. Cases in Financial Management 70-651. Reporting, Analyzing, and Using Accounting Information
	Plus any three of: 72-670. Investment Analysis and Management 72-671. Portfolio Management 72-673. Topics in Finance 72-674. International Financial Management
	INTERNATIONAL BUSINESS
	71-643. International Management 72-674. International Financial Management 74-635. International Marketing Strategy 75-680. Managing the International Enterprise
	Plus any one of: 45-566. International Political Economy 41-510. Theory of International Trade or a Topics course with an international focus offered by any of the Areas
	MARKETING
	74-639. Marketing Strategy and Planning
	Plus any three of: 74-631. Consumer Behaviour 74-632. Marketing Research 74-635. International Marketing 74-638. Special Topics in Marketing
	Plus any one of: 72-672. Cases in Financial Management 75-680. Managing the International Enterprise 75-682. Manufacturing Strategy or a Topics course being offered by one of the other Areas whose content is relevant to Marketing.

MANAGEMENT SCIENCE

73-603. Management Science Methods
73-605. Operations Management
73-606. Strategic Implementation for Technologies Management

Plus any two of:

73-602. Topics in Management Science
60-537. Database Management Systems
60-538. Information Retrieval Systems
60-539. Emerging Non-traditional Database Systems
91-504. Advanced Operations Research I
91-505. Advanced Operations Research II
91-511. Stochastic Processes
91-502. Manufacturing Systems Simulation
91-500. Optimization
91-503. Production and Inventory Control Systems
91-508. Reliability Engineering

MANAGEMENT AND LABOUR STUDIES

71-613. Leadership and Organizational Change
71-643. International Management
71-646. Business Negotiations and Problem Solving
71-647. Managing Diversity in the Work-place

Plus any one of:

71-648. Topics in Management and Labour Studies
95-500. Sport Leadership

PRODUCTION/OPERATIONS MANAGEMENT

73-604. Operations Management
75-682. Manufacturing Strategy

Plus any three of:

73-602. Topics in Management Science
74-631. Consumer Behaviour
75-680. Managing the International Enterprise
41-531. Industrial Organization
91-509. Computer-Integrated Manufacturing
91-512. Flexible Manufacturing Systems

THE MAJOR PAPER

Students may choose a major paper option. All students choosing this option must have a detailed major paper proposal approved by at least two faculty members in the Odette School of Business. These two faculty members will have primary responsibility for supervising the student's work. The approved proposal application form must be submitted to the Assistant to the Dean in order to register for the major paper (76-796). An oral defence will be required.

The major paper will be graded, will receive six credits and will substitute for two 600-level non-specified courses.

THE THESIS

Students may choose a thesis option. All students choosing this option must have a detailed thesis proposal approved by at least two faculty members in the Odette School of Business and by one faculty member external to the School but from within the University. An oral defence will be required.

The thesis will be graded, will receive twelve credits and will substitute for four 600-level non-specified courses.

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ODETTE SCHOOL OF BUSINESS

MASTER OF BUSINESS ADMINISTRATION DEGREE (FAST-TRACK PROGRAM)

Admission Requirements

- GMAT exam – satisfactory achievement in all segments and a satisfactory total score.
- GMAT may be waived at the discretion of the MBA - Professional Accounting Specialization Program Director
- Achievement of a satisfactory score on an appropriate and well recognized English language proficiency test for students whose first language is not English
- Satisfactory performance on personal interview
- Two appropriate letters of reference
- Minimum average of 70% in their previous academic degree and minimum average of 75% in the past twenty courses
- Successful completion of B.Comm and of all required undergraduate accounting prerequisite courses (i.e. Odette Undergraduate CPA Path) or equivalents
- Successful completion of the Odette PGCA and of the undergraduate accounting prerequisite courses or equivalent
- Students cannot enter the professional accounting specialization without undergraduate accounting prerequisites (i.e. Odette Undergraduate CPA Path or equivalent)
- The determination of advanced standing is granted by the MBA – Professional Accounting Specialization Program Director.

Other criteria which will apply for Fast Track MBA:

- Students cannot transfer from the Fast Track MBA to enter the integrated 14-month MBA.
- Credit transfer for the Fast Track MBA non-accounting concentrations is considered based on evaluation of undergraduate transcripts and work experience. The determination for credit transfer is granted by the MBA Program Director.

Students entering the Fast Track MBA in the Fall will complete all prescribed course offerings in the Fall, Winter and Summer semesters. In the event a student does not receive credit for completing the course, the student will need to complete the same course in a later semester.

Master of Business Administration with Professional Accounting Specialization

The Fast Track MBA with Professional Accounting Specialization is a two-year program that allows students, interested in the CPA designation, to enter directly into the second year of the program if they meet the admission criteria listed above.

Degree Requirements:

Total Courses: 11 (or 33 credit hours)

- a)** 76-501. Interpersonal Dynamics
b) 75-698. Strategic Management

c) plus nine courses (or 27 credit hours):

- 70-601. Advanced Topics in Financial Reporting
70-602. Advanced Topics in Management Accounting
70-607. Integration and Team Building
70-608. Integrative Case Analysis
76-610. Business Law
76-673-01. Special Topics: Business Management
76-673-02. Special Topics: Business Management

including two of the following four courses:

- 70-603. Performance Management
70-604. Advanced Topics in Finance
70-605. Advanced Audit and Assurance
70-606. Advanced Topics in Taxation

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ODETTE SCHOOL OF BUSINESS

MBA FOR MANAGERS AND PROFESSIONALS

Admission Requirements

For entry into the MBA for Managers and Professionals all applicants should meet the following minimum requirements:

- o Students must have a minimum of five years of full-time work experience in a professional setting
- o Four-year undergraduate degree or equivalent
- o GMAT exam – satisfactory achievement in all segments and a satisfactory total score.
- o GMAT may be waived at the discretion of the MBA Program Director
- o Achievement of a satisfactory score on an appropriate and well recognized English language proficiency test for students whose first language is not English
- o Satisfactory performance on personal interview
- o Two appropriate letters of reference
- o Minimum average of 70% in their previous academic degree and minimum average of 75% in the past twenty courses. The determination for advanced standing is granted by the MBA Program Director.

Students with an Honours Bachelor of Commerce:

Applicants who have a four-year B.Comm. or equivalent business degree could be admitted directly to the second year of the MBA for Managers and Professionals if they have a professional designation and some work experience. The determination for advanced standing is granted by the MBA Program Director. Credit transfer for the MBA Managers and Professionals is considered based on evaluation of undergraduate transcripts and work experience. The determination for credit transfer is granted by the MBA Program Director.

Degree requirements:

Total Courses: 20 (or 60 credit hours)

76-501. Interpersonal Dynamics
76-502. Core Concepts of Accounting I
76-503. Introduction to Financial Management
76-505. Marketing Management
76-510. Core Concepts of Accounting II
76-512. Financial Management II
76-511. Research Methodology
76-513. Human Resources Management
76-514. Management Information Systems
76-610. Business Law
71-646. Dynamics of Business Negotiations
75-698. Strategic Management
Plus eight courses (or 24 credit hours) from:

71-600. Business Ethics and Sustainability
75-611. Project Management I and 75-612. Project Management II
76-661. Directed Study (6.0 credits)
74-631. Consumer Behaviour
70-673-01 and 70-671-02. Special Topics in Accounting
72-673-01 and 72-673-02. Special Topics in Finance
76-673-01 and 76-673-02. Special Topics in Business Management
74-638-01 and 74-638-02. Special Topics in Marketing
73-673-01 and 73-673-02. Special Topics in Management Science
75-662. Advanced Business Agreements
75-692-01 and 76-692-02. Special Topics in Strategy and Entrepreneurship
75-690. Entrepreneurship - Formation and Management

The MBA for Managers and Professionals offers the following fields: Accounting, Finance, Marketing, Strategy/Entrepreneurship, and Health Care. Students who choose to follow a field complete the requirements as follows:

For the Accounting Field, students must complete:

71-600. Business Ethics and Sustainability
75-611. Project Management I
75-612. Project Management II
74-631. Consumer Behaviour
76-673-01 and 76-673-02. Special Topics in Business Management
70-673-01 and 70-671-02. Special Topics in Accounting

For the Finance Field, students must complete:

71-600. Business Ethics and Sustainability
75-611. Project Management I
75-612. Project Management II
74-631. Consumer Behaviour
76-673-01 and 76-673-02. Special Topics in Business Management
72-673-01 and 72-673-02. Special Topics in Finance

For the Marketing Field, students must complete:

71-600. Business Ethics and Sustainability
75-611. Project Management I
75-612. Project Management II
74-631. Consumer Behaviour
76-673-01 and 76-673-02. Special Topics in Business Management
74-638-01 and 74-638-02. Special Topics in Marketing

For the Strategy/Entrepreneurship Field, students must complete:

71-600. Business Ethics and Sustainability
75-611. Project Management I
75-612. Project Management II
74-631. Consumer Behaviour
76-673-01 and 76-673-02. Special Topics in Business Management
75-692-01 and 76-692-02. Special Topics in Strategy and Entrepreneurship

For the Health Care Field, students must complete:

71-600. Business Ethics and Sustainability
75-611. Project Management I
75-612. Project Management II
74-631. Consumer Behaviour
76-673-01 and 76-673-02. Special Topics in Business Management

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ODETTE SCHOOL OF BUSINESS / FACULTY OF LAW

INTEGRATED M.B.A./J.D. PROGRAM

This special program provides students interested in a career combining management and legal skills with an opportunity to complete the M.B.A. and J.D. degrees in four years. The program is jointly administered by representatives of the Odette School of Business, the Faculty of Law, and the Faculty of Graduate Studies.

Admission Requirements

The admission procedure for the integrated program consists of two stages. At the first stage, students applying to the program must meet the admission requirements of both the M.B.A. and J.D. programs. Therefore separate applications must be submitted to the Faculty of Law and the Faculty of Graduate Studies for admission to the regular degree program in Law and the M.B.A. To facilitate academic and career planning, it is strongly suggested that these applications be made simultaneously. Students who are accepted to both the M.B.A. and J.D. programs will be accepted to the integrated program, and will proceed to attend first year in either Faculty. Such students will be granted a deferred admission to the other Faculty in the program.

This special deferred admission will be revoked if the applicant's performance in the first program fails to meet the first-year academic standards of the program. In such case the applicant may re-apply for regular admission to the second degree program.

Applications will also be considered for entry to the program from candidates who are attending the first year of either the J.D or M.B.A. programs. They must meet the admissions requirements and application deadline for the program for which they are seeking entry.

Application Deadlines

Faculty of Law - November 1 (J.D)

Faculty of Graduate Studies - June 1 (M.B.A.)

For application materials please contact each of the following separately:

For the J.D:

Ontario Law School Application Service

P.O. Box 1328

170 Research Lane

Guelph, Ontario

N1G 5E2

Telephone: (519) 823-5232

Website: www.ouac.on.ca/olsas

For the M.B.A:

Odette School of Business

M.B.A. Admissions

University of Windsor

Windsor, Ontario

N9B 3P4

mba@uwindsor.ca

Website: www.uwindsor.ca/mba

TERM PLANNING

The M.B.A./J.D. Program offers students the opportunity to experience two enriching education experiences, two degrees, in an accelerated, integrated manner.

M.B.A./J.D. students can enter into the program in one of two ways:

- i) Defer law studies for one year, complete 18 course credits toward the MBA (with only the Major Paper (04-76-796), weighted at two course credits, remaining for completion) and then study Law in the regular manner for three years.
- ii) Complete Year 1 of law studies and take a one-year leave of absence from Law. Once at the Odette School of Business, complete 18 course credits toward the MBA (again, with only the Major Paper (04-76-796) remaining for completion) and then return to Law and study in the regular manner for the remaining two years.

Option (i) is preferred because it allows the student to study with a cohort in both programs; however, students interested in the MBA who have completed only the first year of Law at the University of Windsor will have no problem completing the requirements in the two remaining years of study.

The sequence of courses would be identical to those studied by all MBA students, with two exceptions (noted in italics). In Module 2 and extending into Module 3, MBA/JD students will be required to complete one extra credit, an independent study (Directed Study 04-76-661), to bring their eventual total to 18 course credits. This independent study is a business course

(Directed Study 04-76-661), completed through Odette, and it should not be confused with the Supervised Research Option available through Law. With earning the 18 M.B.A. course credits, only the major paper (again, worth the equivalent of two courses) would remain to complete the program. The sequence is presented below:

Please note that students will be registered in Module 4 for the Major Paper (76-796), which will receive 'IP' status at the end of the module.

Module 1: Business Fundamentals
 76-501 Interpersonal Dynamics
 76-502 Core Concepts of Accounting I
 76-503 Introduction to Financial Management
 76-505 Marketing Management.
 76-511 Research Methodology

Module 2: New Ventures
 76-510 Core Concepts of Accounting II
 76-512 Financial Management.
 76-513 Human Resources Management.
 75-690 Entrepreneurship: New Venture Formation and Management
 + 76-661 Directed Study (for MBA/JD students only)

Module 3: Managing Growth
 76-504 Quantitative Techniques in Management
 71-600 Business Ethics and Sustainability
 74-631 Consumer Behaviour
 75-611 Project Planning I

Module 4: Managing in a Mature Market
 71-646 Dynamics of Business Negotiations
 75-698 Strategic Management
 76-514 Management Information Systems.
 75-612 Project Planning II
 + 76-796 Major Paper (for MBA/JD students only)

To complete the two degrees, as stated, students commence (or return to) law studies in September. They are registered in Law and finish the remaining two or three years of the program (whichever is applicable). During the final year of Law studies (likely in the winter semester), the students will also submit and present their major papers. Once completed, a grade is assigned for the Major Paper and the 20 course credits required for the MBA are fulfilled.

The sequence conforms as closely as possible to the parameters that guided the old program sequence. In fact, the present model is actually simpler, without the multiple changes in program status that were required with the old two-year MBA.

The registration of students is straightforward. While studying for the core 18 course credits of the M.B.A., all students are registered full-time in the MBA (from September until August). However, when they return to Law the following autumn, the students will revert to full-time Law. They will complete the Major Paper (04-76-796) under that status, using the MBA/JD program status in SIS. Once completed, the Major Paper (04-76-796) will have its "IP" status converted to the grade that was earned.

**Sample Progression through the J.D. Program
 (with MBA courses completed before LAW I or between Law I and II)***

The following chart sets out a typical path through the MBA/JD. All program requirements in Law and the MBA must be met regardless of the entry point into the program.

	Fall Required Courses (# Credits)	Winter Required Courses (# Credits)	Summer	Comments
Law I	JD program as prescribed		N/A	
Law II	Torts and/or Civ Pro (4) Business Associations (4) + 6 other credits Total Credits: 14	Torts and/or Civ Pro (4) + 11 other credits Total Credits: 15	N/A	13/29 and 18/32 rule applies
Law III	Evidence (4) Supervised Research(3)*** Law courses (8) Total Credits: 15	Judicial Review (4)** Law courses (10) Total Credits: 14 MBA Major Paper (04-76-796) Defense	N/A	13/29 and 18/32 rule applies - 3 MBA Major Paper credits permissible by application

*Law students must earn a minimum of 13 credits per term and 29 credits over the year and a maximum of 18 per term and

32 over the year. They must also meet Law's other curricular requirements. To that end and to facilitate the writing of the MBA Major Paper (04-76-796), Law students may apply to allocate three credits to MBA Major Paper work and to count these credits towards the 13/29 minimum requirement in Law III. Students must ensure that they apply to the Academic Program Committee of the Faculty of Law via the Office of the Associate Dean at the beginning of their term to have their MBA Major Paper (04-76-796) work apply to their Law minimum credit requirement. Application deadlines are posted on the Faculty of Law's website.

The MBA Major Paper (04-76-796) for the purposes of the MBA/JD is to have a legal relevance, although the supervisor will be from Odette and a member of Faculty of Graduate Studies (FGS). The reader may be from Law if he or she is a member of the FGS. Otherwise, Odette may consult with Law about the paper and/or include a representative as a third committee member.

The MBA major paper will be approximately 50 pages in length, inclusive of bibliography and appendices (based on 250 words per page).

***Students may also register for a Law Supervised Research Paper to fulfill credits in Law II or III. The Supervised Research Paper may be adapted for use in the MBA Major Paper but not form a chapter of the Major Paper. Supervised Research papers worth three credits are approved by the Office of the Associate Dean, whereas papers worth four credits are approved by the Academic Program Committee. Supervised papers worth four credits generally require an empirical component. Students who intend to adapt the Supervised Research to their MBA Major Paper (04-76-796) (or visa versa) should discuss their proposal with supervisors in both programs.

The MBA Major Paper (04-76-796) is to be defended during Law III year with timing determined by Odette in consultation with Law

Total Law credits over 3 years: $34 + 26 + 26 = 86$ [minimum required by Federation of Law Societies for Dual/Joint Program is 80, minimum for a regular JD student is 90]

**These courses are highly recommended but not currently required. They may become required for all students graduating from Law in 2015 and beyond. Students intending to practice law are encouraged to take these courses to satisfy the competency requirements identified by the Federation of Law Societies. These courses may be taken in any term but the 13/29 rule must be met.

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Programs (Listed Alphabetically)	THE MASTER OF SCIENCE DEGREE
Programs (Listed by Department)	In addition to the University's general requirements and stipulations for the Master's degree, the following requirements must be met by students proceeding to the M.Sc. degree.
Programs (Listed by Faculty)	1) <i>Course Work</i> : Candidates must complete successfully at least three courses chosen from the available graduate offerings in the student's field or from related and cognate courses, with the approval of the Program Committee. The student may be required to take additional courses, as stipulated by the student's Master's committee.
Graduate Diploma Programs	2) <i>Seminars</i> : In addition to the above course work, students must attend the regular departmental Seminar (59-795) throughout their M.Sc. studies as a fulfilment of this requirement.
Courses	3) <i>Thesis</i> : A student must undertake original research and embody the results in a thesis(59-797). The student will then be examined by a committee.
Alphabetical by Department	A student who fails to achieve satisfactory performance in all aspects of the program (e.g., course work, seminars, thesis work or major critique) may be required to withdraw.
Admission Information	4) <i>Master's Committee and Final Examinations</i> : The Master's committee is chosen in the manner described under Master's Program Requirements. The final examination will take the form of an open seminar in the presence of the Master's committee. The examination will be open to the public.
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CHEMISTRY AND BIOCHEMISTRY

THE DOCTOR OF PHILOSOPHY DEGREE

In addition to the University's general requirements, the following requirements must be met by all students proceeding to the Ph.D. degree:

1) *Course Work*: Candidates must complete successfully at least six courses, including 59-710 (or three courses if the candidate enters the program with an MSc degree) chosen from the available graduate offerings in the student's field or from related and cognate courses, with the approval of the Program Committee. The student may be required to take additional courses, as stipulated by the student's Doctoral committee.

2) *Seminars*: In addition to the above course work, students must attend the regular departmental Seminar (59-795) throughout their Ph.D. studies and present at least one seminar on their research as a fulfilment of this requirement.

3) *Dissertation*: The principal requirement for the Ph.D. degree is the presentation of a dissertation which embodies the results of an original investigation (59-798). For general requirements of the dissertation, see Ph.D., The Dissertation.

A student who fails to achieve satisfactory performance in all aspects of the program (e.g., course work, seminars, and dissertation work) may be required to withdraw.

4) *Doctoral Committee*: The Ph.D. committee is chosen in the manner described under Ph.D Program Requirements. This committee will meet with the student annually to review his or her progress. As part of this review the student will present a short seminar on his or her research progress.

5) (a) *Transfer to the Ph.D. program*: M.Sc. students with a minimum of an 80% average in a minimum of two courses taken as a graduate student may transfer directly to the Ph.D. program following a meeting with the Graduate Advisory Committee (with participation of the Outside Reader optional) at which approval to transfer is recommended. Such transfers will normally take place between the 12th month to the 24th month after admission to the M.Sc. II program.

(b) *Comprehensive Examination*: Students in the Ph.D. program will be required to complete an oral comprehensive examination within the first twelve months following admission into the Ph.D. program. The examination will take the form of a ten to twenty minute presentation of the student's research work to date, followed by a question and answer session in which the student's depth of knowledge of the field of research and the underlying chemical and/or biochemical principles will be examined. The student will be assessed by a committee of three members comprised of the research advisor and two other faculty members from Chemistry and Biochemistry, with additional members optional. As a guide to the student, the committee may provide some directed readings prior to the examination. The student will be expected to understand the subject matter and background of these topics. A grade of Pass or Fail will be given. In the event of a failing grade, the student may be allowed a second examination within one month, or a specific assignment for subsequent evaluation at the discretion of the examining committee. It may be possible that the student will not be allowed to repeat the examination.

(c) *Final Examination*: Each candidate will take a final oral examination in defense of the dissertation on the recommendation of the doctoral committee. An external examiner, chosen for acknowledged scholarship in the appropriate field of chemistry or biochemistry, will normally be present during the oral examination. The external examiner will be selected by the doctoral committee, subject to the approval of the Dean of Graduate Studies. The examination will be public and will involve a short seminar presentation by the candidate. The examination will be chaired by the Dean of Graduate Studies or delegate.

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Industrial Engineering has slight variation (see #4)</p> <p>The following requirements are supplementary to the University's general requirements as set out by the Faculty of Graduate Studies.</p> <p>THE DEGREE OF MASTER OF APPLIED SCIENCE</p> <p>Areas of Specialization</p> <p>The areas of specialization are listed by Department.</p> <p>Admission Requirements</p> <p>A candidate for the degree of Master of Applied Science shall hold the degree of Bachelor of Applied Science from this University or an equivalent degree in Engineering or Applied Science. In addition, the applicant must have at least second-class standing or its equivalent in the final year and be recommended by the Program Graduate Committee in which the candidate plans to undertake studies.</p> <p>Applicants with degrees in related fields will be considered but will normally require strengthening of their background in Engineering. At the discretion of the Program, the Graduate Record Examination (GRE) may be required.</p> <p>All applicants whose native language is not English are required to satisfy the English proficiency requirement as described in the application procedures listed in this calendar.</p> <p>Possession of the minimum requirements does not automatically ensure acceptance.</p> <p>Degree Requirements</p> <p>The specific minimum program requirements for the M.A.Sc. include the successful completion of:</p> <ol style="list-style-type: none"> 1) <i>Course Requirements:</i> Satisfactory completion of courses comprising between twelve and twenty-four term hours, depending on the term hour equivalence assigned to the mandatory thesis or major paper. A thesis may be equivalent to as many as eighteen term hours, and a major paper to as many as six term hours of the total minimum requirement of thirty term hours. 2) Either a thesis or a major paper as specified below: <ol style="list-style-type: none"> (a) <i>Thesis:</i> A thesis incorporating the results of an original investigation is required of all candidates except those students who are doing non-thesis research toward a major paper. Before writing the thesis the student must meet with the Master's committee to obtain permission to write the thesis. The Master's committee will grant this permission when the student has shown sufficient competence and has accomplished substantial research. After completion of the thesis, each candidate will be required to make a satisfactory oral presentation and defence of the thesis as described below. (b) <i>Major Paper:</i> For those candidates doing non-thesis research, a major paper is required. The topic of the major paper is normally research based on the existing literature in the field of study. The candidate will be required to make an acceptable oral presentation to the Master's committee based on the major paper (see below). 3) Mechanical Engineering students in the MAsc program must take 92-595 (MAsc Graduate Seminar) and Mechanical Engineering students in the PhD program must take 62-695 (PhD Graduate Seminar). <p>Note:</p> <ul style="list-style-type: none"> -Part-time students who are not able to take the MAsc Graduate Seminar course have to take an additional 3-credit graduate course approved by his/her degree supervisor(s), if necessary, to fulfill the overall credit requirement for the degree; or -Part-time students who are not able to take the PhD Graduate Seminar course have to take an additional 3-credit graduate course approved by his/her degree supervisor(s), if necessary, to fulfill the overall credit requirement for the degree." <ol style="list-style-type: none"> 4) Industrial Engineering students must additionally take 91-595 (Graduate Seminar). They are expected to register in it every semester offered. Normally in the final year of their degree, they are to give a seminar presentation and will receive a Pass/Fail grade. For the M.A.Sc. thesis or Major Paper in Industrial Engineering the final grade is "Satisfactory" or "Unsatisfactory".
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Residence and Time Limits: The minimum period of study for a Master's candidate is twelve months. The maximum duration of full-time study as a Master's candidate is three years. Part-time Master's candidates will undertake the equivalent of a minimum of one year of full-time study. For a part-time Master's candidate the maximum time limit generally will not exceed five calendar years. Master's candidates who expect to require an extension of these time limits must petition the Dean of Graduate Studies, giving reasons for the request and plans for completion of the work. The Chair of the Program Graduate Committee will then make a recommendation to the Dean of Graduate Studies.

Committees: Research undertaken as part of a Master's program is normally directed and supervised by a Master's committee. Whereas the student's advisor provides day-to-day guidance and direction, the committee is ultimately responsible for the overall supervision to ensure that adequate progress is maintained. The Master's committee will consist of at least three members with the student's advisor as chairperson. The advisor must be a member of graduate faculty.

At least one member shall be from a Program within the University of Windsor other than the one in which the student is majoring. The student's advisor will propose the names of the Master's committee and these will be subject to the approval of the Program Graduate Committee and the Executive Committee of the Faculty of Graduate Studies. Within one month after registration, each student will be assigned to a Master's committee.

The final appraisal of the thesis and the conduct of the final oral examination of the dissertation will be carried out by the examining committee. The examining committee will consist of the Master's committee and the Chair of the Program Graduate Committee or designate of the Dean of Graduate Studies as chairperson (non-voting).

Examinations: At the discretion of the Program Graduate Committee a qualifying examination may be required. A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed before the student registers for the final candidate year of Master's work.

In addition to the usual examination on course work, all students must meet the following requirements:

1) *Review of Progress on Research or Major Paper:* Within the first year a full-time student will present in the form of a seminar an outline of his or her proposed thesis research or outline the content of his or her major paper. This will be presented to the Master's committee, who must approve, with or without modifications, or reject the proposal. Thereafter, at least once a year, the student will report his or her progress in the form of a seminar.

2) *Final Examinations:* The passing of the final oral examination on the thesis (or the major paper) requires both an adequate thesis (or major paper) and a satisfactory defence. The examination will be conducted by the examining committee and the thesis defence will be chaired by the Chair of the Program Graduate Committee or appointed designate. If the examining committee cannot arrive at a unanimous decision to award a passing grade, a majority decision will be accepted provided there is no more than one dissenting vote. If there is more than one dissenting vote, the student may be required to carry out additional work if the thesis is judged to be adequate in all other respects, or the student may be required to withdraw.

Grading: The grading system is outlined in "[Faculty Regulations](#)".

The Faculty of Engineering requires that students maintain at least a 70% average at all times.

Courses in which a grade of 70% or higher is received will be accepted for graduate credit. In addition, upon the positive recommendation of the Chair of the Program Graduate Committee and advisor concerned, credit may be granted by the Faculty of Graduate Studies for not more than two term courses in which a grade between 65-69% has been obtained.

If a student fails to obtain credit in a course, the course may be repeated only once, at the discretion of the Chair of the Program Graduate Committee concerned and the Dean of Graduate Studies. No student may repeat, or replace with another course, more than two term courses in which credit was not obtained.

All research work for which a letter grade is assigned must be graded 70% or better to receive credit.

Make-up courses will not count for graduate credit. Make-up courses are those courses required to compensate for deficiencies in the student's academic background.

In exceptional cases, at the discretion of the Chair of the Program Graduate Committee and the advisor, a graduate student may take one undergraduate course for credit.

INTEGRATED B.A.Sc./M.A.Sc.

The Faculty of Engineering offers a Bachelor's/Master's Integrated Engineering Degree program which allows students with outstanding academic ability to achieve both a B.A.Sc. and M.A.Sc. degree in a time period as short as five years. This program treats the educational process through the B.A.Sc. to the M.A.Sc. degree as a single coherent integrated whole, while ensuring that the requirements for both degrees are fully satisfied. This structured program represents a complementary alternative to the existing separate undergraduate and graduate degree programs.

Application to the integrated B.A.Sc./M.A.Sc. can be made early in the Winter semester of the student's third year of undergraduate B.A.Sc. study. Normally, only applicants who have a cumulative average of at least 77%, and a semester average of 77% in the Fall semester of their third year of undergraduate B.A.Sc. study may be granted admission to the integrated program which confers conditional admission status to the M.A.Sc. program.

Contact the appropriate Engineering Department for more information.

RESEARCH IN OUTSIDE INSTITUTIONS

Research for the Ph.D. or M.A.Sc. degree, in part or in whole, may be carried out in an outside institution (e.g., industrial, governmental, or academic university). A student who does research at an outside institution must fulfil the same requirements as a student doing on-campus research. The only exception is that the time spent doing the off-campus research relevant to the thesis or dissertation will be credited toward the residence requirement. In addition to the general requirements, a student applying for permission to do research at an outside institution must provide:

- 1) A detailed statement of the research proposal, including arrangements for supervision, and of the circumstances under which the research is to be carried out;
- 2) Evidence that the institution has adequate facilities for the research; and that the applicant will be able to pursue independent research;
- 3) A proposed time schedule;
- 4) A letter of support from a responsible person in the outside institution giving approval of the proposal and accepting these regulations.

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FACULTY OF ENGINEERING

The following requirements are supplementary to the University's general requirements as set out by the Faculty of Graduate Studies.

THE DEGREE OF MASTER OF ENGINEERING

Faculty of Engineering

Master of Engineering (MEng) Degree in Civil Engineering, [Civil Engineering with Co-op/Internship](#), Environmental Engineering, [Environmental Engineering with Co-op/Internship](#), Electrical and Computer Engineering, [Electrical and Computer Engineering with Co-op/Internship](#), Industrial Engineering, [Industrial Engineering with Co-op/Internship](#), Mechanical Engineering, [Mechanical Engineering with Co-op/Internship](#), and Engineering Materials, [Engineering Materials with Co-op/Internship](#).

For the MEng Mechanical Engineering - Automotive Option with Co-op click [here](#) and or go to: <http://www.uwindsor.ca/professional/384/master-engineering-mechanical-engineering-automotive-option>.

1. General

The Master of Engineering (MEng) degree offered at the University of Windsor is a course work professional program open to students who satisfy the admission requirements. The MEng Program takes three to five semesters to complete but is structured in such a way that it may be completed in one year by a full-time student. The minimum period of full-time registration for the MEng degree is three semesters and the maximum allowable time is five semesters. For part-time students, the minimum period of registration for the MEng degree is eight semesters and the maximum allowable time is fifteen consecutive semesters. Practical work-experience placements are available for full-time students only, but cannot be guaranteed.

2. Degree, Course and Credit Requirements

Eight (8) courses, equivalent to 24 credits, including:

(a) 06-85-519 (Engineering Technical Communications),* 06-85-545 (Engineering Mathematics) and 06-85-550 (Engineering Project Management)
It is strongly recommended that students complete 06-85-519, 06-85-545, and 06-85-550 in Semester 1 or Semester 2 of the program.

(b) plus five (5) courses, equivalent to 15 credits, one of which may be taken from the 400-level courses related to the major

*Engineering Technical Communications can be waived (i.e., replaced by another graduate course of equal or greater credit value approved by the program coordinator,) at the discretion of the department pending an evaluation of the student's communication ability by the department.

2.1 A candidate, with the permission of the host Department, may register for at most one senior undergraduate course (400-level) in the MEng Program. All courses must be for credit only.

2.2 The candidate must obtain a pass in all courses credited to her or his program, with a minimum overall average of 70%. A grade of less than 60% in any course counts as a failure.

2.3 Co-op/Internship – Work Term Option

85-701. The work term is offered on a pass/fail basis. It provides the opportunity for students to enhance academic learning with valuable industrial experience, and to develop transferable skills in an applied setting. Students must apply for admission to the Co-op/Internship option in their first study term (Prerequisite: Departmental permission). Students can complete a four (4) month work term.

All Co-op/Internship positions must be full-time, paid, related to the degree program, and approved by the University. The process of securing a Co-op/Internship position is competitive. Co-op/Internship students will apply for work opportunities as advertised by the Centre for Career Education using an Internet-based software program and employers will make interview and hiring decisions. Students are also encouraged to seek Co-op/Internship employment outside of the advertised postings by completing a guided job search process facilitated by the Centre for Career Education. All Co-op/Internship students must, in the first and second semester of their program, register and pass three (3) graduate courses for their program.

Withdrawal from the Co-op/Internship program will be granted only under exceptional circumstances. For example, it must be determined that the student has no outstanding commitments to employers. Students who wish to withdraw must meet with a Co-op Coordinator and complete a withdrawal form. However, the only time a student may withdraw from an graduate Co-op/Internship program without further Co-op/Internship fee payment implications is by the 1st Friday of classes after their first Co-op/Internship work term. Students who withdraw from Co-operative Education at any other time will be liable for paying the Co-op/Internship fee for the term in which they are dropping and one

additional term.

In the interest of building solid partnerships with employers, students who have accepted a co-op employment offer (either by ranking a position in round 1 of the job competition or by accepting a position in later rounds (either verbally or in writing)) must honour that commitment. Therefore, once students have accepted an offer of employment for a work term, they will be considered registered in the appropriate work term course and must remain in the Co-op/Internship program until they have completed their work term requirements. Failure to honour these commitments and/or to complete all work term requirements will lead to being required to withdraw from the Co-op/Internship program and will result in a failing grade on his/her transcript for that work term.

Master of Engineering co-op/internship students will be registered in a work term course for the four month term of their placement. This course will be evaluated on a pass fail basis. In order to receive a passing grade, students must:

- Submit learning objectives at the beginning of the 4 month work term
- Receive a satisfactory mid work term assessment from supervisor
- Submit and receive a passing grade on a work term report (guidelines prepared by faculty and report evaluated by faculty)
- Complete and receive a satisfactory post-work term presentation (evaluated by Co-op Coordinator and Faculty)
- Receive a satisfactory final work term performance evaluation by employer

3. Schemes of Study

The Master of Engineering may be taken by full-time students or those who wish to study on a part-time basis while remaining in full-time employment. All applicants for the MEng program are expected to be entirely self-funded and no financial assistance will be provided by the Faculty of Engineering or the University of Windsor. International students are admitted as full-time students only.

3.1 Full-Time Students will be:

- 3.1.1 required to register for a maximum of three courses per semester,
- 3.1.2 required to register for a minimum of two courses per semester,
- 3.1.3 expected to complete all degree requirements within 5 academic semesters.

3.2 Part-Time Students will be:

- 3.2.1 required to register for a maximum of one course per semester,
- 3.2.2 required to complete all degree requirements within 15 academic semesters and should not have more than two semesters of continuous "inactive" status

4. Admission Requirements

MEng applicants shall be recommended for admission by the Faculty of Engineering Coordinator. Official admission to any program of graduate studies is in the form of a "Letter of Acceptance" issued by the Faculty of Graduate Studies. Please note that the following are minimum requirements and do not guarantee admission.

4.1 Undergraduate degree (B.A.Sc. / B.Sc. in Engineering / B.Eng. degree or equivalent*) with at least 73% average over the last two years. International applicants are advised to refer to the specified minimum admission requirements, listed by country, at the Faculty of Engineering's Professional and Graduate Studies (FEPGS) website and the Faculty of Graduate Studies website.

Students whose undergraduate degree programs do not provide them with sufficient background in Design, Applied Science and Professional/Technical communications are required to enter a qualifying program of courses at the undergraduate level before admission to candidature for the MEng degree. Students entering and successfully completing the MEng qualifying program may receive an Advanced Certificate in Engineering.

OR

4.2 Successful completion of an Honours Certificate in one of the available programs at the Faculty of Engineering, with a minimum average of 77%.

4.3 A candidate who has not fulfilled the minimum requirement of 73% average may be admitted to the MEng Program as a probationary student** provided that he/she has

achieved at least 77% overall standing in the Final Year of the graduation. Note: there is no guarantee of admission even if an applicant meets the minimum requirements.

**Such candidates will be required to achieve a grade of at least 70% in the first two MEng courses to be regularized in the MEng Program.

4.4 The language of instruction for the MEng courses is English. Applicants will be required to provide certification of English language proficiency, if he or she has:

4.4.1 not completed three or more years of post-secondary work at a Canadian institution or in a country where the official language is English. **or**

4.4.2 not been employed for a similar period of time in a position in which English was the primary language of business.

4.5 Where applicable a student's certification of English language proficiency can be demonstrated by a minimum score set by the department. For minimum requirements in other equivalent exams, information is available on the

Faculty of Graduate Studies website. The Faculty of Engineering and the Faculty of Graduate Studies reserve the right to require further demonstration of English Language proficiency.

4.6 The Department may consider for admission to its degree programs students from outside Canada who have excellent academic preparation, but who do not meet the usual standards of English language proficiency. Successful completion of the English Language Improvement Program (ELIP) will be considered as a means to gain admission to the Department for such students.

4.7 Students who do not meet the academic requirements outlined above may be considered for admission to a transitional, probationary or qualifying program depending on their academic background.

4.8 Students seeking admission to the Department's MEng programs must also complete the Department's Graduate Student Information Form and the Faculty of Graduate Studies Admission Reference form.

5. Degree Program Transfers (MEng, MAsC and PhD)

5.1 The MEng is a course-based professional degree and does not require a research thesis. As admission to the Department's PhD program requires a demonstrated record of research capabilities, MEng graduates are not eligible for direct admission to the PhD program, see 5.2.

5.2 On successful completion of the MEng degree with an overall average of at least 77%, a student may apply for admission into the Department's MAsC (fast-track) program, see section 6.

5.3 A full-time MEng student may apply for admission into the MAsC research degree track after successfully completing 4 MEng courses with an overall average of at least 77%. A maximum of two courses from their major (excluding 06-85-5xx courses) may be granted advanced standing towards the requirements of the MAsC degree. Applications for admission to the MAsC from the MEng program must conform to the general regulations for admission to the MAsC program. Admission to the MAsC program also requires that a faculty member in the department is able and willing to act as a research advisor. Admission is not guaranteed. MEng students, once admitted to the MAsC Program cannot transfer back to the MEng Program. They will be required to re-apply to the MEng Program. If admitted to the MEng Program a student may receive advanced standing for a maximum of 4 (four) graduate level courses

5.4 While strongly discouraged, a full-time MAsC student may apply for admission into the MEng degree track. A maximum of two courses of advanced standing may be granted towards the requirements of the MEng degree provided the courses are on the Department's approved MEng course list. Applications for admission to the MEng from the MAsC program must conform to the general regulations regarding admission to the MEng program. Admission is not guaranteed. Students transferring from the MAsC research degree to the MEng course based degree will be expected to be self-supporting and can expect no financial assistance from the Department or University during the remainder of their studies.

5.5 MAsC students transferring to the MEng must relinquish their research student office and will be required to return any computer equipment provided for their use as an MAsC research student.

6. MEng-MAsC Fast-Track Program

6.1 As described in section 5.2 above, on successful completion of the MEng degree with an overall average of at least 77%, a student may apply for admission into the Department's MAsC program. Applications for admission to the MAsC from the MEng program must conform to the general regulations for admission to the MAsC program.

6.2 Admission to the fast-track MAsC program also requires that a faculty member in the department is able and willing to act as a research advisor.

6.3 The fast-track MAsC program which can only be entered following the successful completion of the MEng degree, as described above, consists of a research project which must be completed within 6 semesters for a part-time student or 3 semesters for a full-time student after completion of the MEng degree. A major paper may be substituted for the research project at the discretion of the Department and the student's advisor.

6.4 The MAsC thesis must conform to the general regulations regarding Master's theses as described in the Faculty of Graduate Studies regulations and guidelines. A maximum of two courses of advanced standing may be granted towards the requirements of the MAsC degree (subject to the approval of FGS). The nature of the remaining two or more courses is at the discretion of the supervisor.

^Contact the department for the specific courses in Computer Engineering.

COURSE TRANSFERS:

Students who have either failed to complete, or cannot continue in, the Degree of Master of Engineering (M.Eng.), and have been accepted into the Honours Certificate may be allowed to retain as credit a maximum of four (4) graduate courses in which they have received a grade of 70% or higher. The transfer of the courses is at the discretion of the Department Head and Associate Dean Academic, Faculty of Engineering. Students who transfer to the HCP from the MEng, and have successfully completed the HCP with 77%, may reapply for admission into an Engineering Graduate program but will not be given credit for any courses they previously transferred to the HCP.

Policy on Grades between 60-69%: Students who obtain grades between 60% and 69% can retain a maximum of two

courses with these grades if their overall average is above 70% in the semester in which they received these marks. If the overall average is below 70% in the semester in which they received these grades, the student may be required to repeat the course, take an equivalent course, or may be required to withdraw.

Policy on Failing Grades: Students who obtain a grade below 60% (failed grade) may be required to repeat this course or replace it with an equivalent course. Students receiving a failing grade (below 60%) in more than one course may be required to withdraw from the program.

ENGINEERING: COURSES (85-XX)

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FACULTY OF ENGINEERING

THE DEGREE OF DOCTOR OF PHILOSOPHY

PhD program requirements are common for the following Engineering programs: [Civil Engineering](#), [Electrical Engineering](#), [Environmental Engineering](#), [Engineering Materials](#), [Mechanical Engineering](#). For PhD program requirements for the [Industrial and Manufacturing Systems Engineering](#) program click [here](#).

Areas of Specialization

The areas of specialization are listed by Department.

Admission Requirements

An applicant for admission to a course of graduate studies leading to the Doctor of Philosophy degree in Engineering must normally be a graduate of a recognized university with a Master's degree in Engineering or Applied Science. Applicants with degrees in related fields will be considered but will normally require strengthening of their background in engineering. At the discretion of the Program Graduate Committee, Graduate Record Examinations (GRE) may be required.

All applicants whose native language is not English are required to satisfy the English proficiency requirement as described in the application procedures listed in this calendar.

Possession of the minimum requirements does not automatically ensure acceptance to the degree program.

Candidacy: Admission to graduate study does not imply admission to candidacy for a degree. The candidacy of a student normally will be determined within the second year after initial registration in the doctoral program.

Candidacy will be granted to students who meet all of the following requirements:

- (a) satisfactory completion of the comprehensive examination;
- (b) demonstration to the doctoral committee of ability to conduct independent research;
- (c) acceptance by the doctoral committee of the research proposal.

The doctoral committee will assess the student's competence to continue research on the basis of (a), (b) and (c), and inform the Chair of the Program Graduate Committee.

Program Requirements

The specific minimum program requirements for the Ph.D. include the successful completion of:

- 1) *Course Requirements:* Satisfactory completion of at least four courses, comprising a minimum of eight term hours, beyond the courses required for the Master's degree.
- 2) A comprehensive examination.
- 3) Satisfactory progress in research within each review period. The doctoral committee will establish by periodic review, which will include at least one formal seminar a year, that adequate progress in research has been accomplished by the candidate. The doctoral committee will also grant permission to write the dissertation when it decides the candidate has achieved sufficient competence in carrying out research, and when the candidate has done substantial research.
- 4) A dissertation on the research. Each candidate will be required to make an oral presentation of the dissertation research and will be examined orally on the subject of the dissertation and related fields.

Residence and Time Limits: Every student will undertake a full program of study for a minimum of three years beyond the Baccalaureate of Engineering or its equivalent. Credit for one of these years may be given for the time spent in proceeding to a Master's degree. Credit for one of these years may also be given for work done at another institution. However, in no case shall the student spend fewer than two of the three required years of residence in full-time attendance at the University of Windsor.

A student admitted to a Ph.D. program requiring the student's attendance for a minimum of three years must complete all requirements within seven years. Students admitted to a program requiring a minimum of two years' residence must complete all requirements within six years.

Committees: Research undertaken as part of a doctoral program is normally directed and supervised by a doctoral committee. Whereas the student's advisor provides day-to-day guidance and direction, the committee is ultimately responsible for the overall supervision to ensure that adequate progress is being maintained. The doctoral committee will consist of at least four members, with the student's advisor as chairperson. The advisor must be a member of graduate faculty. At least one member shall be from a program area within the University of Windsor other than the one in which the student is majoring.

The student's advisor will propose the names of members for the doctoral committee, and these will be subject to the approval of the Program Graduate Committee and the Executive Committee of the Faculty of Graduate Studies. Within one

month after initial registration, each student will be assigned to a doctoral committee.

The final appraisal of the dissertation and the conduct of the final oral examination of the dissertation will be carried out by an examining committee. The examining committee will consist of the doctoral committee, the Dean of Graduate Studies or designate as chairperson (non-voting), and an external examiner.

Examinations: At the discretion of the doctoral committee a qualifying examination may be required. A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed before the student registers for the second year of Ph.D. work.

In addition to the usual examinations on course work, all students must meet the following requirements:

1) *Review of Progress on Research:* Within the first year, the student will present in the form of a seminar an outline of his or her proposed thesis research. This will be presented to the doctoral committee who must approve, with or without modifications, or reject the proposal. Thereafter, at least once a year the student will report his or her progress in the form of a seminar.

2) *Comprehensive Examination:* Students who have previously obtained a Master's degree must attempt this examination within twelve months of registering for the Ph.D. program. Other students must take it within twenty-four months of registration for the Ph.D. program. This set of examinations requires the students to demonstrate an adequate background in the general discipline of engineering, and an advanced knowledge in their fields of specialization. The comprehensive examination will be conducted by a program comprehensive committee in one or two sections at the discretion of the Program Graduate Committee:

(a) a scheduled, supervised written portion, of at least three hours' duration, designed to test the student's general knowledge on core subjects in the field of study, with questions set and answers evaluated by the program comprehensive committee;

(b) an oral examination to be evaluated by the program comprehensive committee. The objective of this part of the examination is to test the student's ability to integrate general knowledge from different areas of the field of study in order to solve problems the student has not previously encountered.

The student's overall success in the comprehensive examination will be determined by the program comprehensive committee. If the student is unsuccessful, the committee may require:

(a) that the student repeat all or part of the comprehensive examination at a specified time,

(b) that the student take and pass remedial coursework before repeating all or part of the examination, or

(c) after consultation with and approval by the doctoral committee, that the student withdraw from the program.

3) *Final Examination:* The passing of the final oral examination of the dissertation requires both an adequate dissertation and a satisfactory defence of the dissertation. This examination will be conducted by the examining committee. Following the acceptance and provisional approval of the dissertation by the doctoral committee, and a satisfactory preliminary report from the external examiner, a date for the oral examination can be set. Except under very unusual circumstances, the external examiner must be present at the oral examination. If the examining committee cannot arrive at a unanimous decision to award a passing grade, the majority decision will be accepted provided that there is no more than one dissenting vote. However, if the dissenting vote is that of the external examiner, a new external examiner may be appointed and another oral examination will be required. If the new examiner also gives a dissenting vote, the dissertation will not be accepted.

RESEARCH IN OUTSIDE INSTITUTIONS

Research for the Ph.D. or M.A.Sc. degree, in part or in whole, may be carried out in an outside institution (e.g., industrial, governmental, or academic university). A student who does research at an outside institution must fulfil the same requirements as a student doing on-campus research. The only exception is that the time spent doing the off-campus research relevant to the thesis or dissertation will be credited toward the residence requirement. In addition to the general requirements, a student applying for permission to do research at an outside institution must provide:

1) A detailed statement of the research proposal, including arrangements for supervision, and of the circumstances under which the research is to be carried out;

2) Evidence that the institution has adequate facilities for the research; and that the applicant will be able to pursue independent research;

3) A proposed time schedule;

4) A letter of support from a responsible person in the outside institution giving approval of the proposal and accepting these regulations.

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COMMUNICATION, MEDIA, AND FILM

THE MASTER OF ARTS DEGREE

MA IN COMMUNICATION AND SOCIAL JUSTICE

Admission Requirements

Applicants should submit a portfolio consisting of : (i) a completed application form; (ii) a personal profile in accordance with the format prescribed by the Program; (iii) a C.V.; (iv) an official transcript of grades attained in undergraduate courses; (v) two letters of reference; and (vi) a sample of writing from undergraduate courses. Normally, successful applicants will have an Honours B.A. in Communication or a cognate discipline; however, students lacking this formal requirement but having equivalent qualifications (for example, significant experience with a social justice agency or having engaged for a significant time in social justice related activities) are also encouraged to apply. Students lacking formal admission requirements may be required to enroll in a make-up year.

Program Curriculum Structure

Students must complete five courses, three of which must be 40-500, 40-501, and 40-502. They must also prepare a major paper which may evolve from one of the courses. The presentation of the major paper defense will be open to all faculty and students. Students completing a thesis must take four courses, three of which must be 40-500, 40-501, and 40-502. The thesis option is available only with faculty recommendation. (Courses taken in other programs may be counted for credit with the prior permission of the Graduate Coordinator)

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COMPUTER SCIENCE (With and without Co-op Option)

THE MASTER OF SCIENCE DEGREE

[MSc in Computer Science - learning outcomes](#)

[MSc in Computer Science With Co-op - learning outcomes](#)

Admission Requirements

Graduates of the University of Windsor or of other recognized colleges or universities may be admitted to programs leading to the Master's degree. A student with an honours Bachelor's degree or equivalent with adequate specialization in Computer Science and with at least a 70% average in the major subject may be admitted to a minimum one-year Master's program (II Master's Candidate). A student with an honours Bachelor's degree in a related subject and with at least a 70% average in the major subject may be admitted to a minimum two-year Master's program (I Master's Qualifying followed by II Master's Candidate) or to a minimum two-year II Master's Candidate program depending upon prior qualifications.

Students with deficiencies in some areas of Computer Science may be required to make up those deficiencies by registering in undergraduate courses prior to or as part of their graduate program or by following a program of supervised reading.

Students eligible to participate in the proposed co-op education will have successfully completed at least one semester of full-time study at the Master's level in the School of Computer Science at the University of Windsor, which includes fulfilling the requirement of attending regular departmental seminars.

Degree Requirements

- 1) The requirements for the degree of Master of Science will be satisfied by pursuing a program of studies consisting of five approved courses and a thesis. (A thesis is a major research project which must involve substantial innovative work generally culminating in original results.)
- 2) In addition to the above course work, students must attend regular departmental seminars throughout their M.Sc. studies, as a fulfilment of this requirement.
- 3) With prior approval of the graduate coordinator, candidates may be permitted to include graduate courses offered by other departments in their program.
- 4) No student will be allowed to include in his or her program a course which substantially overlaps a course previously taken.
- 5) All candidates' programs are subject to approval by the Computer Science program graduate committee.
- 6) Students must maintain a minimum overall average of 70%, and obtain a passing grade in all courses to remain in good standing in the program. A grade of less than 70% in a graduate course will be considered as a failure for that course.
- 7) A student who fails to maintain the minimum overall average of 70% will be automatically placed on probation in the following term.
- 8) A student who obtains a grade below 60% in any course will be automatically placed on probation in the following term.
- 9) A student who fails to achieve satisfactory performance in any aspect of the program (course work, thesis or major paper) may be required to withdraw.

The Master's thesis committee is chosen in the manner described under the section titled, [The Program Requirements for the Master's Degree](#). The final examination will take the form of an open seminar in the presence of the Master's committee. The examination will be open to the public.

Each student must obtain approval of his or her program, in writing, from the graduate coordinator within three weeks of registration. Subsequent changes require written approval from the graduate coordinator.

Co-op Program Requirements

Recruitment and selection into the co-op element of this program will take place in each of the fall, winter and summer semesters. Admission and pre-employment readiness training will be held in one semester, students will compete for positions in the next semester and complete one eight-month placement (equivalent of two work terms) in the following two semesters.

In addition to the Program Requirements for the Master of Science Degree, students participating in the co-op option must satisfy the following conditions:

- 1) Have been a full-time student in the Master's program in Computer Science;

- 2) Have successfully completed a minimum of one study term prior to applying for admission to the co-op stream;
- 3) Can not be on a leave of absence in the two terms immediately prior to the work terms;
- 4) Have at least one semester of study remaining upon completion of their work terms in a maximum of three years in the Master's program;
- 5) Have obtained written permission from the academic supervisor/co-supervisors;
- 6) Have their placement(s) confirmed by the Centre for Career Education
- 7) Are not planning to take courses during the work terms.

All Co-op positions must be full-time, paid, related to the degree program and approved by the University. The process of securing a co-op position is competitive. Co-op students will apply for work opportunities as advertised by the Centre for Career Education using an Internet-based software program and employers will make interview and hiring decisions. Students are also encouraged to seek co-op employment outside of the advertised postings by completing a guided job search process facilitated by the Centre for Career Education.

Withdrawal from the co-op program will be granted on an exception basis only as it must be determined that the student has no outstanding commitments to employers. Students who wish to withdraw must meet with a Co-op Coordinator and complete a withdrawal form. However, the only time a student may withdraw from an undergraduate co-op program without further co-op fee payment implications is by the 1st Friday of classes after their first co-op work term. Students who withdraw from Co-operative Education at any other time will be liable for paying the co-op fee for the term in which they are dropping and one additional term. This will help offset the costs of developing another student for placement.

In the interest of building solid partnerships with employers, students who have accepted a co-op employment offer (either by ranking a position in round 1 of the job competition or by accepting a position either verbally or in writing in later rounds) must honour that commitment. Therefore, once students have accepted an offer of employment for a work term, they will be considered registered in the appropriate work term course and must remain in the co-op program until they have completed their work term requirements. Failure to honour these commitments and/or to complete all work term requirements will lead to being required to withdraw from the co-op program and will result in a failing grade on his/her transcript for that work term.

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COMPUTER SCIENCE

THE DOCTOR OF PHILOSOPHY DEGREE

PhD in Computer Science

The general regulations for the Degree of the Doctor of Philosophy (Ph.D.) at the University of Windsor, as set out in the section titled, [The Degree of Doctor of Philosophy](#), will apply together with the more specific requirements for the degree of Ph.D. in Computer Science given in the following section. For admission, continuation in good standing, and graduation, students must satisfy both the general university regulations and the specific regulations for Computer Science.

Admission Requirements

In order to be considered for admission to the doctoral program in Computer Science, applicants must have completed a thesis-based Master's degree in Computer Science, or, have completed a course-based Master's degree in Computer Science, and have demonstrated to the Admissions Committee, the ability to conduct independent research through the completion of research-oriented project work or appropriate research experience in industry or academia, or have completed an honours undergraduate degree in Computer Science, and a thesis-based Master's in a closely related field.

Outline of Degree Requirements

All Ph.D. students must fulfill the following graduate academic requirements:

- (a) A qualifying examination within four months after entering the program.
- (b) No less than two and usually no more than four graduate courses.
- (c) A comprehensive examination within two years after entering the program.
- (d) A research proposal within two years of entering the program.
- (e) Submission of an annual progress report.
- (f) Presentation of three seminars, including the research proposal.
- (g) A final examination consisting of a Ph.D. dissertation defense (60-798).

Qualifying Examination

The qualifying examination must be taken by all students entering the doctoral program.

The qualifying examination is intended to ensure that the student has a mastery of the fundamentals in Computer Science in order to undertake research. This is a breadth requirement in that it does not require the student to be able to undertake research in each of the fundamental areas. Rather, the student must demonstrate knowledge, in each of the fundamental areas, at a level that would be expected of a graduate from a four-year honours Computer Science university-degree program.

The student must obtain at least an overall grade of 70% in the tests and/or course works done for the qualifying examination.

Graduate Courses

Each student must complete no less than two and usually no more than four graduate Computer Science courses, not including those taken for credit in a Master's degree, and not including seminar or thesis courses. Graduate course selection will be determined by the student's Doctoral Committee. Graduate credit will be given for a grade of 70% or higher in a graduate course.

Comprehensive Examination

The comprehensive examination is one in which the student is asked to demonstrate a reasonable mastery of the field of specialization; it is designed to test the student's command of knowledge and ability to integrate that knowledge, after completion of all or most of the graduate course work. Normally, this examination is completed during the second year of graduate study and is a prerequisite to admission to candidacy.

Admission to Candidacy

A student is admitted to candidacy when the student has passed the qualifying examination, has completed all of the required graduate courses, and has passed the comprehensive examination.

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY

To change from one program to another requires the approval of the graduate committee.

THE MASTER OF ARTS DEGREE IN CRIMINOLOGY

Admission Requirements

The requirement for admission to the M.A. candidate year of the program is an Honours degree in Criminology or a related field from an accredited university. Applicants without an Honours degree in Criminology or a related discipline may be required to take additional courses. Students transferring into Criminology from a non-related discipline and those with insufficient preparatory background may be required to take additional courses before proceeding into the candidate year.

Applicants will be considered on the basis of:

- Obtaining a 77% minimum cumulative average in the final two years of study (full-time equivalent) of the 4-year undergraduate degree.
- Strong recommendations based on faculty observation of student's performance, work experience, or community involvement demonstrating clear commitment to and understanding of criminological concerns.
- Background preparation and graduate faculty resources that are available in the area of specialization indicated on the application

PROGRAM REQUIREMENTS

CRIMINOLOGY MASTER OF ARTS – COURSE STREAM

Degree Requirements: Successful completion of seven graduate courses within 12 months (3 consecutive semesters):

- 48-664
- 48-605 OR 48-606
- Three graduate courses which must be selected from 48-661, 48-662, 48-665, 48-667, 48-668, and/or 48-671
- Two graduate courses from any 48-6xx course*

CRIMINOLOGY MASTER OF ARTS – THESIS STREAM

Degree Requirements: Successful completion of five graduate courses and a Thesis within 24 months (6 consecutive semesters):

- 48-664
- 48-605 OR 48-616
- One graduate course which must be selected from 48-661, 48-662, 48-665, 48-667, 48-668 OR 48-671
- One graduate course from any 48-6xx course*
- 48-690 and 48-797 Thesis Proposal & Thesis Oral Defenses

Thesis Stream Progress Requirements:

Students are required to complete all five courses in two consecutive semesters; 02-48-690 should be taken during the second semester.

MA thesis students must complete their thesis proposals by the end of Term 3. Proposals must be defended by September 30th of their second year in the program. Students who have not set the date for their thesis proposals by July 1st will automatically be moved into the course stream so they can register for courses in the Fall term.

*One of which may be replaced by a graduate course from another department, subject to the department's approval

Important Program Requirement Details

Students may not take more than three (3) courses in a single term.

Students will proceed towards completing the degree by achieving at least a 77% cumulative average in all courses.

The minimum passing grade in a graduate course is 70%.

Seminar courses require active class participation. Instructors may therefore take into account class participation in grading students, in accordance with Senate regulations.

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EARTH AND ENVIRONMENTAL SCIENCES

THE MASTER OF SCIENCE DEGREE IN EARTH SCIENCES

Degree Requirements

1) *Course Requirements:* The candidate for a Master's degree will be required to take 61-580 and 61-582, plus a minimum of two graduate courses normally from Earth and Environmental Sciences but may include courses from cognate disciplines with prior approval. Not more than one course may be in Special Topics (61-590), and not more than two courses may be from the same instructor. Additional 500-level Science or Engineering courses may be taken on the recommendation of the student's Master's Committee. Up to three additional courses may be required to be taken as prerequisites or required background courses. The total of all courses taken shall not exceed eight. The student's Master's Committee shall recommend to the program coordinator all courses to be taken for graduate credit after discussion with the candidate. In addition, original research work must be pursued and embodied in a thesis submitted for degree credit. Credit for graduate study previously undertaken may be given for a maximum of two courses, but the duration of study at the University of Windsor may not be reduced to less than the minimum of one year.

2) *Examination Requirements:* The final examination of a candidate for the Master's degree shall be an oral defense of the thesis at a public lecture.

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EARTH AND ENVIRONMENTAL SCIENCES

THE DOCTOR OF PHILOSOPHY DEGREE IN EARTH SCIENCES

In addition to the general requirements outlined in the section titled, [The Degree of Doctor of Philosophy](#), the following requirements must be met by all students proceeding to the Ph.D. degree.

Admission Requirements

The normal requirement for entry into the Ph.D. program shall be an M.Sc. in Earth Sciences or an appropriate degree in a cognate discipline. Students who have enrolled in the M.Sc. program may apply to transfer to the Ph.D. program after one year of registration, and must have achieved a minimum 80% average in course work and have a strong recommendation from their thesis committee.

Degree Requirements and Structure

Students entering the Ph.D. program with an M.Sc. degree will be required to:

- take a minimum of four, one-semester courses, including the doctoral research proposal and graduate seminar courses.
- Additional courses may be required if the doctoral committee feels that a particular area of the student's background needs to be strengthened.

The required courses will be chosen in the context of the student's previous education to ensure a sufficient intellectual challenge, commensurate with the Ph.D. degree.

Students transferring into the Ph.D. program after having completed one year of the M.Sc. degree will be required to take a minimum of six courses in total, including the doctoral research proposal and graduate seminar courses.

Grading: The minimum passing grade in graduate courses is 70%. Any student whose performance is deemed unsatisfactory in course work or research will be required to withdraw.

Doctoral Committee: The doctoral committee shall comprise the advisor(s), two other faculty members from the Department of Earth Sciences and one faculty member from another department at the University of Windsor. Other committee members can be added where appropriate (e.g. from other universities or from industry).

Research Proposals: Doctoral candidates will be required to prepare research proposals that must be successfully defended in a public forum, prior to continuation in the program. Presentation of the research proposal will normally be at the end of the first calendar year after enrollment.

Dissertation: The student will be required to submit a dissertation that is a compilation of original research carried out by the student, under the supervision of the student's advisor(s) and the doctoral committee. The dissertation may be submitted in a traditional format or as a compilation of published papers and/or manuscripts, linked by introductory and conclusion chapters. In the latter case, the contribution of the student to any jointly authored papers must be clearly stated and justified.

Progress reports: The student will submit annual research progress reports to the doctoral committee. Continuation in the program is dependent on a satisfactory progress report. The Faculty of Graduate Studies also monitors student progress via an annual progress report submitted by the student and supervisor.

Examinations

Comprehensive Examination: The comprehensive examination will normally occur at the end of the first year and will typically be held in conjunction with the defense of the research proposal. However, the two may be held at different times for logistical or other reasons. The comprehensive exam is complementary to the defense of the research proposal, and is designed to assess whether the student's scientific knowledge is appropriate for continuance in the Ph.D. program, and to ensure that the student has the background knowledge that is required for their research. A pass/fail decision will be by a majority vote of the committee. If a student should fail the comprehensive exam, he or she will be allowed to re-sit the exam within a four-month period after the first exam. The student will be required to withdraw from the program should he or she fail the second exam.

Defense: The dissertation will be defended by the student and examined by an examination committee in a public defense. The examination committee will comprise the student's doctoral committee and an external examiner.

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ECONOMICS

THE MASTER OF ARTS DEGREE

MA in Economics

Admission Requirements

1) A student with an honours Bachelor's degree in Economics or its equivalent, with at least a major average of 70%, may be admitted to a minimum one-year Master's program. Applicants are expected to have completed one course in each of calculus, linear algebra and statistics. Applicants who have not completed the above mathematics requirements are encouraged to do so prior to beginning their graduate course work. 2) A student with a general degree, or an honours graduate in another discipline, with at least a 70% standing, may be admitted to a minimum two-year Master's program.

Degree Requirements

1) Students in the two-year program are required to take a make-up or qualifying year in their first year of the M.A. program. Selection of courses is to be made in consultation with a graduate advisor.

2) Students in the one-year M.A. program (Candidate year) are required to complete:

a) seven graduate courses and a major paper normally to be in conjunction with one of the courses OR eight graduate courses (no major paper);

b) at least one course in microeconomics, one in macroeconomics and one in econometrics. Students intending to enter a Ph.D. program are advised to take 41-501, 41-502, 41-503, 41-504, 41-541, and 41-542.

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FACULTY OF EDUCATION

THE MASTER OF EDUCATION DEGREE

The objectives of the Master of Education program are to provide candidates with opportunities to develop:

- 1) a commitment to intellectual enquiry and scholarship as a basis for continuing professional growth;
- 2) a knowledge of current theory and research relevant to the curriculum and administration of elementary and secondary schools; and
- 3) an understanding of, and respect for, the principles of educational research.

Admission Requirements

1) In addition to the requirements set forth in the section titled Application Information and the section titled, the Admission Requirements for the Master's Degree, for admission to the Faculty of Graduate Studies, and to programs leading to a Master's degree, applicants to the Master of Education program must:

- (a) present an undergraduate degree from an approved university with standing in the 70% range overall and at least 70% average in the final two years of study;
- (b) submit a "Statement of Personal Objectives" outlining the applicant's professional background and reasons for seeking a graduate degree in education.

2) Applicants who do not identify their area of studies with the K-12 educational system may present alternatives, although the following items are considered to be assets:

- (a) present a Bachelor of Education degree with standing in the 70% range or the equivalent professional preparation;
- (b) have at least one year of successful professional experience in education. In exceptional cases, consideration may be given to applicants who do not possess a Bachelor of Education degree or equivalent, but who:
 - (i) hold an honours Bachelor's degree or the equivalent with standing in the 70% range overall and at least a 70% standing in the last two years;
 - (ii) can demonstrate experience, interests, and motivation that make them appropriate applicants to the program.

Applicants who do not have at least one year of successful professional experience may be considered if they hold an honours Bachelor's degree or the equivalent with standing in the 70% range overall and at least 70% average in the final two years of study.

3) *Advanced Standing*: Applicants may be granted credit for up to two graduate term courses completed before application to the Master of Education program and taken in another program at the University of Windsor or at another accredited institution. Requests for advanced standing will be considered only at the time of application and only for graduate courses completed with at least 70% average. The Faculty will not grant credit for any course taken more than seven years before all the requirements for the degree have been fulfilled.

4) Admission to the Master of Education program is to the II Master's Candidate level.

Degree Requirements

1) Candidates for the Master of Education degree will pursue studies in the following areas of concentration:

- (a) Curriculum Studies (CS);
- (b) Educational Administration (EA);
- (c) Second Language Acquisition, Culture, and Society (SLACS).

[Commencing Fall 2019, an online MEd will be available for candidates wishing to pursue the course-based Curriculum Studies or Education Administration Concentrations.]

In addition to the general requirements for a Master's degree set forth in the section titled, [Faculty Regulations for the Master's Degree](#), candidates in the thesis and major paper streams are required to successfully complete the following courses:

(a) Three compulsory courses: 80-510 (Statistics in Education), 80-527 (Research in Education), and 80-524 (Fundamentals of Curriculum Theory and Development) or 80-529 (Theories of Educational Administration) or 80-539 (Theories and Approaches in Language Acquisition and Instruction), depending on the area of concentration. Candidates in the Second Language Acquisition, Culture and Society concentration are additionally required to complete two of the following four courses: 80-540 (Language Culture and Society), 80-542 (Language Systems Analysis), 80-543 (Special Education and Language Acquisition), and 80-591 (32) (Language Assessment). It is important to note that with regard to these four courses, SLACS candidates are encouraged to take, as available, the two remaining courses not taken as compulsory courses as additional courses for this concentration.

(b) A research project resulting in either a major paper (80-796), with the value of two term courses, or a thesis (80-797), with the value of four term courses;

(c) For CS and EA candidates proceeding to the degree by major paper, five additional courses, at least three of which must be chosen from the courses listed for the area of concentration: For SLACS candidates proceeding to the degree by major paper, three additional courses, at least two of which must be chosen from the courses listed for the area of

concentration.

(d) For CS and EA candidates proceeding to the degree by thesis, three additional courses, two of which must be selected from the courses listed for the area of concentration. For SLACS candidates proceeding to the degree by thesis, one additional course which must be chosen from the courses listed for the area of concentration.

*Students in the Thesis stream are required to submit a thesis proposal to their Supervisor and Internal Reader for approval prior to starting the thesis. (Before registering for the Thesis Proposal (80-794), students must have completed all required courses in their program. The Thesis Proposal may be completed concurrently with one course in the final semester of coursework. Thesis stream students must enrol in 80-794 (Thesis Proposal) and do so for each subsequent term until the thesis proposal has successfully been defended. Students may enrol concurrently in the Thesis Proposal (80-794) and the Thesis (80-797) if all course work is complete. If students register for the Thesis Proposal (80-794) and the Thesis (80-797) concurrently, then only upon completion of the thesis proposal may thesis stream students begin their Thesis. They must enrol in 80-797 (Thesis) for each subsequent term until the successful completion and deposition of the thesis.

Candidates in the course-based stream are required to successfully complete:

(a) three compulsory courses: 80-527 (Research in Education), 80-795 (Final Project Seminar), and 80-524 (Fundamentals of Curriculum Theory and Development) or 80-529 (Theories of Educational Administration) or 80-539 (Theories and Approaches in Language Acquisition and Instruction), depending on the area of concentration; Candidates in the Second Language Acquisition, Culture and Society concentration are additionally required to complete two of the following four courses: 80-540 (Language Culture and Society), 80-542 (Language Systems Analysis), 80-543 (Special Education and Language Acquisition), and 80-591 (32) (Language Assessment). It is important to note that with regard to these four courses, SLACS candidates are encouraged to take, as available, the two remaining courses not taken as compulsory courses as part of the Electives list specified for this concentration.

(b) one of 80-510 (Statistics in Education) or 80-530 (Qualitative Methods in Educational Research);

(c) For CS and EA candidates six additional courses, at least four of which must be chosen from the courses listed for the area of concentration. For SLACS candidates four additional courses, at least two of which must be chosen from the courses listed for the area of concentration.

[Commencing Fall 2019, an online MEd is available for candidates wishing to pursue the course-based Curriculum Studies or Education Administration Concentrations. Candidates in the online MEd may switch between these two concentrations, complete up to two courses in a face-to-face manner, participate on a part-time or full-time basis, and change to the face-to-face program at any point prior to the start of the associated research projects if they wish to switch from the course-based completion stream to a major research paper or thesis stream.]

STUDIES IN THE AREA OF CONCENTRATION

Compulsory Courses

80-510. Statistics in Education

80-524. Fundamentals of Curriculum Theory and Development*

80-527. Research in Education

80-529. Theories of Educational Administration**

80-539. Theories and Approaches in Language Acquisition and Instruction****

Two of the following four courses: 80-540 (Language Culture and Society), 80-542 (Language Systems Analysis), 80-543 (Special Education and Language Acquisition), and 80-591 (32) (Language Assessment)****

80-794. Thesis Proposal***

80-795. Final Project Seminar***

80-796. Major Paper***

80-797. Thesis*** (Note: Students in the Thesis stream must have successfully completed the Thesis Proposal (80-794) before work may begin on the Thesis.)

* Compulsory for students in Curriculum Studies.

** Compulsory for students in Educational Administration.

*** All students must complete either a Final Project, a Major Paper or a Thesis.

****Compulsory for students in Second Language Acquisition, Culture and Society

Language, Acquisition, Culture and Society

80-539. Theories and Approaches in Language Acquisition and Instruction

80-556. Approaches to Literacy Development

80-557. The English Language Arts

80-527. Research in Education

80-530. Qualitative Methods in Educational Research

80-524. Fundamentals of Curriculum Theories and Development

80-550. Issues in Education

80-551. Information and Communication Technologies (ICT) for Teaching and Learning

80-515. Comparative and International Education

80-533. Survey Design and Research

80-534. Individual Reading

80-565. Sociological Aspects of Education

80-540. Language Culture and Society
80-542. Language Systems Analysis
80-543. Special Education and Language Acquisition
80-591 (32). Language Assessment

Educational Administration

80-515. Comparative and International Education
80-529. Theories of Educational Administration
80-530. Qualitative Methods in Educational Research
80-531. Supervision of the Instructional Process
80-532. Organization and Administration of the School
80-533. Survey Design and Research
80-534. Individual Reading
80-535. Organizational Behaviour in Educational Institutions
80-536. Introduction to Educational Policy Analysis
80-538. The Arts and Education
80-550. Issues in Education
80-551. Information and Communication Technologies (ICT) for Teaching and Learning
80-545. Teaching for Sustainability: An Introduction to Environmental Education
80-555 Strategies for the implementation of Change
80-556. Approaches to Literacy Development
80-558. Psychology of Learning Problems
80-559. The Recent History of Education in Ontario
80-560. Politics of Education
80-561. Legal Aspects of Education
80-562. Educational Finance
80-565. Sociological Aspects of Education
80-566. Interpersonal Relationships in Education
80-591. Special Topics in Education

Curriculum Studies

80-503. The Psychology of Learning and Teaching
80-515. Comparative and International Education
80-524. Fundamentals of Curriculum Theory and Development
80-530. Qualitative Methods in Educational Research
80-533. Survey Design and Research
80-534. Individual Reading
80-537. Language Arts in the Elementary School
80-538. The Arts and Education
80-539. Theories and Approaches in Language Acquisition and Instruction
80-541. The Social Sciences Curriculum
80-545. Teaching for Sustainability: An Introduction to Environmental Education
80-547. Learning in Science
80-550. Issues in Education
80-551. Information and Communication Technologies (ICT) for Teaching and Learning
80-552. Curriculum Developments in Mathematics Education
80-553. The Teaching and Learning of Mathematics
80-554. Fundamentals of Instructional Design
80-555 Strategies for the implementation of Change
80-556. Approaches to Literacy Development
80-557. The English Language Arts
80-558. Psychology of Learning Problems
80-565. Sociological Aspects of Education
80-572. Theory and Practice in Early Childhood Education
80-591. Special Topics in Education

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FACULTY OF EDUCATION

THE MASTER OF EDUCATION DEGREE (INTERNATIONAL COHORT)

[Available to international students.]

The objectives of [all Master of Education programs](#) are to provide candidates with opportunities to develop:

- a commitment to intellectual enquiry and scholarship as a basis for continuing professional growth;
- a knowledge of current theory and research relevant to the curriculum and administration of elementary and secondary schools; and
- an understanding of, and respect for, the principles of educational research.

In addition to these objectives, the Master of Education (International Cohort) will place an added emphasis on developing research through an internship and on understanding educational theory from a comparative viewpoint between Canadian education and that of their own country.

Admission Requirements

Preference will be given to candidates who exceed the minimum requirements as listed below. Applicants should have at least one year of successful professional experience in education. These requirements are already in line with the minimum requirements for students entering into the other Master of Education programs.

- Confirmation of successful completion of a Bachelor of Education (or equivalent) from an academic institution approved the University of Windsor. Applicants with a four year honours degree in related fields may be considered
- Evidence of having obtained a cumulative grade point average in the B range overall and at least a B standing in the last two years of your academic studies (when converted to Ontario standards)
- Demonstrated English proficiency by meeting or exceeding a 7.0 score in the IELTS test or a TOEFL score of 100 (ibt)
- Three letters of reference (should address the applicant's ability to engage in academic work and scholarly study)
- A successful interview with a representative from the University of Windsor
- A personal statement discussing why you wish to do graduate studies in the area of educational studies and how it fits into your plan for entry into the workforce as a working professional and / or scholar

The Centre for English Language Development (CELD) offers an English Language Improvement Program that will be made available to students who are academically qualified but must demonstrate higher English language proficiency prior to the start of their academic program. English language training is at an additional. Students who demonstrate sufficient language proficiency but experience difficulties with language will be referred to CELD which offers additional student support programs in English Pronunciation and English Writing Development. Enrolment is limited

Master of Education (MEd)

Degree Requirements

Candidates will pursue studies in one of three areas of concentration:

- (a) Curriculum Studies;
- (b) Educational Administration.
- (c) Second Language Acquisition, Culture and Society

Curriculum Studies Concentration

Total course: 10 courses and Academic Preparatory Program

Semester 1

80-515 Comparative and International Education
80-551 Information and Communication Technologies
80-524 Curriculum Theory and Development

Semester 2

80-527 Research in Education
80-565 Sociological Aspects of Education
80-530 Qualitative Methods in Educational Research

Semester 3

80-535 Organizational Behavior in Education Institutions
80-536 Introduction to Educational Policy Analysis
80-556 Approaches to Literacy Development

Semester 4

80-793 Educational Research Internship

Educational Administration Concentration

Total course: 10 courses and Academic Preparatory Program

Semester 1

80-515 Comparative and International Education
80-551 Information and Communication Technologies
80-529 Theories of Educational Administration

Semester 2

80-527 Research in Education
80-565 Sociological Aspects of Education
80-510 Statistics in Education

Semester 3

80-535 Organizational Behavior in Education Institutions
80-536 Introduction to Educational Policy Analysis
80-556 Approaches to Literacy Development

Semester 4

80-793 Educational Research Internship

Second Language Acquisition, Culture and Society

Total course: 10 courses and Academic Preparatory Program

Degree Requirements:

80-539 Theories and Approaches in Language Acquisition and Instruction
80-527 Research in Education
Either 80-510 (Statistics in Education) or 80-530 (Qualitative Methods in Educational Research)
80-793 Internship

Two of the the following:

80-540 Language, Culture and Society;
80-542 Language Systems Analysis;
80-543 Special Education and Language Acquisition;
80-591 (Section 32) Special Topics: Language Assessment

Four of the following*:

80-515 Comparative and International Education
80-524 Fundamentals of Curriculum Theories and Development
80-533 Survey Design and Research
80-534 Individual Reading
80-540 Language, Culture and Society
80-542 Language System Analysis
80-550 Issues in Education
80-551 Information and Communication Technologies (ICT) for Teaching and Learning
80-556 Approaches to Literacy Development
80-557 The English Language Arts
80-565 Sociological Aspects of Education
80-591 Special Topics in Education

It is important to note that with regard to these **four courses, SLACS candidates are encouraged to take, as available, the two remaining courses not taken as compulsory courses as part of the list specified for this concentration.*

Suggested Sequencing for 2016-2017

Total course: 10 courses and Academic Preparatory Program

Semester 1

80-539 Theories and Approaches in Language Acquisition and Instruction
80-515 Comparative and International Education
80-551 Information and Communication Technologies for Teaching

Semester 2

80-527 Research in Education
80-565 Sociological Aspects of Education
80-510 or 80-530 Statistics in Education or Qualitative Methods

Semester 3

80-543 Special Education and Language Acquisition
80-591 (Section 32) Special Topics: Language Assessment
80-556 Approaches to Literacy Development

Semester 4

80-793 Internship

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FACULTY OF EDUCATION

JOINT DOCTOR OF PHILOSOPHY IN EDUCATIONAL STUDIES

The Joint Ph.D. in Educational Studies is offered jointly by [Brock University](#), [Lakehead University](#), and the University of Windsor. The designation of "home university" is applied to the home university of the doctoral candidate's dissertation supervisor. The student has the right to take courses and seminars or to use the academic facilities at any of the participating universities in accordance with the approved plan.

The regulations governing the preparation of theses and conduct of examinations will be those of the supervisor's home university.

The degree requirements, regulations and procedures for the Joint Ph.D. program have been approved by the appropriate governing body of each institution. Where there is a conflict in regulations and procedures:

- (a) in academic matters, the regulations of the institution offering the course will prevail;
- (b) in non-academic matters, the regulations of the institution at which the student is registered will prevail.

PROGRAM GOALS AND OBJECTIVES

The joint program will accomplish the following goals:

- 1) provide greater access to advanced study in education for qualified candidates across a wider geographic range in the province;
- 2) promote the growth of research activity and professional development through collaboration among practitioners, scholars, educational institutions, and Faculties of Education;
- 3) foster inter-university links and promote partnerships among Ontario universities;
- 4) further the expansion of research culture and service throughout the province; and
- 5) contribute to the renewal of the professoriate and educational leadership in Ontario during the upcoming period of heavy retirement in the universities and school systems.

The objectives of the program are to produce graduate students who will:

- 1) contribute to the development of knowledge and expertise in teaching/ learning at all levels on the education continuum;
- 2) contribute to the solution of problems/issues in Canadian education;
- 3) promote scholarly enquiry and the development of methodological advances in the study of education;
- 4) integrate theory and practice in education; and
- 5) assume positions of leadership in Faculties of Education, school systems, and other public- and private-sector institutions concerned with education.

ADMISSION REQUIREMENTS

Normally, the minimum academic requirement for admission to the Ph.D. is successful completion of a Master of Education or Master of Arts in Education with an A standing.

In exceptional circumstances, applicants with lower formal academic qualifications but with a strong track record of professional experience related to the proposed area of doctoral study may be admitted. In these cases, however, the Admissions Committee may place additional requirements upon the applicant. Additional requirements will be stated on the offer of admission.

Applicants must provide evidence of research competence normally demonstrated by a master's thesis.

English is the primary language of communication and instruction in the program. Applicants from other countries who have not completed a degree at a university where the primary language of instruction is English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 600 (250 computer-based) or an equivalent demonstration of proficiency.

Candidates who are working on the degree at a distance from the home university must purchase the software and access to the internet which will enable them to participate fully in the required courses.

ADMISSION WITH ADVANCED STANDING

Students may receive advance credit for a maximum of one-half course specialization at the graduate level provided that this course has not been credited to a degree or certificate already awarded, is relevant to the proposed area of study and

has been taken within three years of admission. Requests for advanced credit must be declared prior to admission. No substitution may be made for Core Seminars I and II or the Joint Specialization course via distance education.

RESEARCH PLAN

Applicants must submit a description of their proposed area of research (approximately 2-3 typed pages). When an applicant meets the basic requirements for admission, the potential supervisor and/or the Program Director will assist the applicant in developing a plan of study which will be presented to the Program Committee for approval. If approved, the applicant will proceed to register as a doctoral student at the home university of the dissertation supervisor and will be subject to the general degree regulations of that university. The offer of admission will be made to the applicant by the home university.

Dissertation supervisors will be required to report candidates' progress annually to the Program Committee and to appropriate authorities at the participating universities. Normally, candidates will be expected to complete course requirements and the comprehensive portfolio, and to submit a research proposal within three years of their initial registration. Changes to the approved plan of study must be approved in advance by the Program Director in consultation with the candidate and the supervisor.

PROGRAM FIELDS OF STUDY

1) Cognition and Learning: Cognition and learning draws primarily upon cognitive, developmental, social, and educational psychology as well as science and technology, to examine critically the cognitive, behavioural, emotional, and social processes of educators and students as they engage in teaching and learning. Integral components of this field include, but are not limited to, issues concerning best practices, remedial and contemporary instruction, assessment and evaluation, professional development, curriculum development and implementation, metacognition, and learning theories.

2) Educational Leadership and Policy Studies: This field of study encompasses a range of humanities and social science disciplines to explore the morale, social, and cultural purposes of educational organizations, policy and leadership. It draws upon the works of key scholars in organizational, administrative and policy studies to articulate the philosophical, theoretical and methodological frameworks that inform scholarship and practice. These frameworks situate the major issues and debates confronting educational systems within their larger socio-political and socio-cultural contexts.

3) Social/Cultural/Political Contexts of Education: Education occurs in a dynamic, complex, and contested milieu. The Social/Cultural/Political Contexts of Education field of study critically explores the interplay between culture and education from varied historical, philosophical, and theoretical perspectives with the intent of fostering emancipatory research and democratic practice. Consideration is given but not limited to social constructs of race, class, gender, sexuality, and ability/disability, and how they intersect and influence educational experiences.

Applicants to the program must declare a field of study prior to admission to the program.

DEGREE REQUIREMENTS

Doctoral candidates must be familiar with the academic regulations governing graduate studies at the home university.

Course Requirements

- (a) Doctoral Seminar I (80-602) and Doctoral Seminar II (80-604);
- (b) The Specialized course (80-651). Candidates may meet this requirement through a graduate level course offered at any of the participating institutions;
- (c) One Joint Ph.D. Specialization course (one of 80-621, 80-631, 80-641)
- (d) Research Proposal Colloquium (80-669) (via distance education). (Prerequisite: must have completed two terms of full-time residency or equivalent.)

Comprehensive Portfolio

The Comprehensive Portfolio (80-680) requires doctoral candidates to demonstrate their potential as scholars through the satisfactory completion of authentic tasks. The criteria used by the dissertation supervisory committee to set tasks and assess a candidate's performance are:

- (a) an understanding of the concepts, theories, and issues in the field of study;
- (b) a knowledge of current literature and research methods in the field of study;
- (c) the ability to analyze and synthesize current literature on a specific problem within the field of study;
- (d) an understanding of and ability to critique research in the field of study and research paradigms.

The tasks candidates are expected to complete include the dissertation research proposal, and three other tasks. Candidates must defend their portfolios.

The candidate's defence will be evaluated by the dissertation supervisory committee and at least one other member of the core faculty selected by the Program Director. Candidates are required to present their completed portfolio to an audience in a forum such as the Core Seminar.

Candidates may not begin their dissertation research until the portfolio requirements have been completed successfully.

Dissertation

The Dissertation supervisory committee will involve faculty from at least two participating universities, including whenever possible and reasonable, a member from the university closest to the candidate's home to serve as co-supervisor in cases where the supervisor is at some distance. The regulations and procedures governing the preparation of theses and conduct of examinations will be those of the supervisor's university.

Residence

Candidates must meet a minimum residency of four terms. Two terms of residency may be fulfilled by completion of the Core Seminars I and II. The other two terms of residency must be consecutive. It is strongly recommended that candidates complete two of the terms of residency after they have defended their comprehensive portfolio and are authorized to commence their doctoral research. Credit for residency may be given, with the approval of the Program Committee and the home university, for research carried out off-campus.

Candidates are required to maintain continuous registration. They shall complete the requirements for the degree within a minimum of three years and a maximum of six years.

Recommendations for a time extension or leave of absence are subject to the regulations and procedures at the home university and must be approved in advance by the supervisor and the Joint Program Committee.

DOCTORAL COURSES

Core Seminars

80-602. Doctoral Seminar I: Research, Theories, and Issues
80-604. Doctoral Seminar II: Research, Theories, and Issues

Specialization Courses

Policy and Leadership

80-621. Educational Leadership and Policy Studies

Sociocultural Contexts of Education

80-631. Social/Cultural/Political Contexts of Education

Cognition and Learning

80-641. Conceptual Bases for Cognition and Learning

Other Required Courses

80-651. The Specialized course
80-669. Research Proposal Colloquium
80-680. Comprehensive Portfolio
80-798. Doctoral Dissertation

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FACULTY OF ENGINEERING/ODETTE SCHOOL OF BUSINESS (JOINT PROGRAM)

Master of Engineering Management *(This program is offered jointly between the Odette School of Business and the Faculty of Engineering)*

The Master of Engineering Management provides a business and management foundation within a technical context to allow students to understand all aspects of engineering management. The program aims to help engineering students utilize appropriate business practices and become managers and administrators within their field of practice by providing skills and knowledge to manage projects, resources, people and processes within technical environments. It also encourages independent learning by allowing students to apply business practices in solving practical problems.

Graduates from this program will ultimately be able to take on senior roles in project, operations, manufacturing and facility management. As well, given the diversity of the curriculum, students may be able to occupy marketing and product management roles and fulfil duties that combine sales, finance and economics within technology enterprises. For those who are interested in pursuing entrepreneurial career, the program offers a basic foundation to conduct essential feasibility studies, business planning and financial modeling tasks.

ADMISSION REQUIREMENTS

Admission will be granted, within the limits of program availability to students with the following credentials:

- Bachelor of Applied Science degree in engineering (or other undergraduate degree (or equivalent) with related technical background) with an average of at least B (73%) from an accredited university
- Proof of English language proficiency IELTS: 7.0 / iBT TOEFL: 100
- Two reference letters
- CV/Resume
- Statement of purpose letter
- Preference will be given to candidates who have at least two years of relevant work experience in engineering or a related field

Fall semester enrollment only.

Total courses: lectures will be on Fridays (17:00-21:00) and Saturdays (8:00-18:00) every second weekend, for 6 weeks a semester (36 hours in total). The program includes existing courses as well as new courses. Students are required to complete 9 courses or a total of 30 credits for graduation. Courses will be divided into A) Core Courses (6 courses for a total of 18 credits), B) Non-core Courses (2 courses for a total of 6 credits), and C) Capstone Project Course (two semester course for a total of 6 credits)

DEGREE REQUIREMENTS:

A) Core Courses: all students need to complete the following 6 mandatory core business and engineering courses before taking any non-core courses:

Core Business Courses:
76-531. Financial and Managerial Accounting
76-530. Applied Finance
75-698. Strategic Management

Core Engineering Courses
91-523. Product Innovation and Design Management
91-519. Work Organization: Analysis and Design
85-550. Engineering Project Management

B) Capstone Project Course: all students must complete a capstone course offered jointly by the Faculty of Engineering and Odette School of Business. This course, 76-540/85-540 Engineering Management Capstone allows students to practice their theory by completing one of: 1) an engineering management report 2) engineering feasibility study, or 3) new venture business plan. Coordinators and associate deans from engineering and business will appoint instructors for this course. The teams and projects in this course should be managed in a manner similar to the existing corporate MBA project and with emphasis on student mentorship and project supervision by subject matter experts.

C) Non-core Courses: students select 1 non-core course from each of the following course groups:

Non-core Business Courses:
Choose One:
73-604. Operations Management
75-602. IT Project Management
76-505. Marketing Management
75-682. Manufacturing Strategy
78-613. Managing Employees
75-692. Special Topics (depending on semester)

Non-core Engineering Courses

Choose One:

91-514. Engineering Design, Methodology & Applications

91-522. Supply Chain Management and Logistics

93-550. Sustainability: Principles and Practice

88-590-2. Electronic Commerce

88-590-40. Technology Entrepreneurship

D) Mandatory Workshops (1 workshop per semester, each workshop is 1 session during 10:00-17:00 on a Saturday or Sunday of a week that doesn't have classes):

The workshops could include these areas:

Team building and development· Intellectual property with focus on engineering technology· Negotiation skills and practices·

Pre-capstone team formation workshop (Semester 4)

ODETTE SCHOOL OF BUSINESS: COURSES

ENGINEERING: COURSES

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ENGLISH LANGUAGE, LITERATURE AND CREATIVE WRITING

THE MASTER OF ARTS DEGREE

Programs of Study

The English department offers two fields within the M.A. Program in English: Literature and Language and, Literature and Creative Writing. Within the Literature and Language field, there are two options: the Thesis Option and the Course Work Option.

The Literature and Creative Writing field allows students to combine graduate-level study of literature with advanced work on creative writing in a two-term workshop and by developing a significant independent writing project. Within the Literature and Language field, the Course Work Option offers exposure to a wide variety of topics in literature, composition and rhetoric, and theory. The Thesis Option allows students to investigate a single topic in depth through independent, extended research with faculty supervision.

The specific requirements for each field are:

MA IN ENGLISH: CREATIVE WRITING

Four graduate seminar courses
26-591. Creative Writing Seminar A
26-592. Creative Writing Seminar B
26-794. Creative Writing Project (a novel, a play, a collection of poems or short stories)

MA IN ENGLISH: LITERATURE AND LANGUAGE

THESIS OPTION
Five graduate seminar courses
26-797. Thesis/Project (of at least 20,000 words)

COURSE WORK OPTION
Eight graduate seminar courses.

For both fields, students must include 26-500, Scholarship and the Profession (or equivalent) in their program in addition to their regular course load.

Admission Requirements

In addition to the requirements under section titled, Application Procedures and under section titled, The Master's Degree - Admission Requirements, for admission to the Faculty of Graduate Studies and to programs leading to the Master's degree, applicants for admission to the Candidate year in the programs leading to the Master of Arts degree in English should have the following undergraduate preparation:

- 1) Some courses, normally four, in the pre- and early-modern periods, that is, from Old English through the Eighteenth Century;
- 2) Some courses, normally four, in the modern period, that is, the Nineteenth and Twentieth Centuries, including Canadian and American;
- 3) Some courses, normally two, from the areas of Critical History, Theory and Approaches, Scholarship and Bibliography, and Language and Linguistics;
- 4) Additional courses from any of the above areas to make up the total number of courses required for a four-year English B.A.

Students who do not have a four-year B.A. or its equivalent may be admitted to the Faculty of Graduate Studies in a qualifying (M1) program. In such a program, the student is expected to register in appropriate undergraduate courses in order to satisfy the requirements above. Alternatively, students who are deficient in any of the stated requirements for admission may be invited or may request to write a qualifying examination (see below, "Qualifying or Placement Examination").

Students who are admitted to the Faculty of Graduate Studies in the M.A. program will be expected to select courses in their first year to complete the requirements specified above.

In addition to the documents required, applicants must submit a "Proposal of Studies" (about 500 words) with their applications indicating the program and option to which they are applying and discussing such issues as their areas of academic or creative interest, their undergraduate training, and their academic or career goals. Students applying to the field in Creative Writing must submit, with their application, a portfolio of representative creative work (20-25 pages). Students with a four-year B.A. in English may apply to either of the fields and to any of the options. Students with interdisciplinary

interests, with honours degrees combining English with another discipline, or with abilities or backgrounds that do not correspond to the particular requirements for admission listed above, but who have an overall average of 80%, apply to either field but may be required to take additional courses.

Qualifying or Placement Examination: An applicant for admission to the Candidate year for the Master's degree who is deficient in any of the stated requirements for admission to this level of graduate study may be invited, or may request, to write a qualifying examination. A similar examination is available as a placement test, on the basis of which students in the two-year M.A. program may be granted advanced standing.

Students from other universities may arrange to take these examinations in other centres provided the program coordinator is notified well in advance.

Counselling: Students admitted to one of the fields of the M.A. program in English will be assigned a faculty advisor who will be available to counsel them on all aspects of their work. The program coordinator (or a delegate) must approve a student's program of study before registration.

Grades: After admission to candidacy, graduate students in the M.A. program in English must maintain at least a 70% average, but graduate credit is given only at the 80% and 70% level. A student whose grade in a graduate course is less than 70% may be allowed to repeat the course or to substitute another for it, at the discretion of the Dean of Graduate Studies and the program coordinator. The student may not repeat more than one course.

ENGLISH LANGUAGE, LITERATURE AND CREATIVE WRITING: COURSES

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Programs (Listed Alphabetically)	THE MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL SCIENCE (Great Lakes Institute for Environmental Research (GLIER))
Programs (Listed by Department)	In addition to the general requirements, the following requirements must be met by all students proceeding to the M.Sc. degree.
Programs (Listed by Faculty)	Admission Requirements
Graduate Diploma Programs	Initial Application Procedure: The initial application procedure for students who wish to enrol in the MSc. Program through GLIER includes:
Courses	1) Completion of the "Application for Admission to the Faculty of Graduate Studies" form;
Alphabetical by Department	2) one official transcript of all undergraduate studies from all colleges and universities attended;
Admission Information	3) two confidential letters of reference;
Application Information	4) Graduate Record Examination, if required; and TOEFL results, as required;
Awards and Financial Aid	5) letter of intent that clearly outlines his/her interest in the program, proposed focus of study and the prospective supervisor;
Registration	Prospective students will be encouraged to contact a potential supervisor before applying for admission to the GLIER graduate program. If a suitable supervisor cannot be identified, the student will be dissuaded from applying for admission.
Academic Regulations	For admission to the M.Sc. program, applicants must hold an appropriate Honours Bachelor's degree (or equivalent) from a recognized university. Students must maintain no less than a 77% average in their final two years of undergraduate, full-time study to be eligible for admission into the GLIER M.Sc. program.
Faculty Regulations	Program Requirements
Additional Degrees	(a) compliance with regulations outlined in University of Windsor Graduate Calendar;
Exam and Grading Procedures	(b) successful completion of the GLIER Multidisciplinary Graduate Seminar course (this course is taken over the first two semesters and is equivalent to two credits). The course will be graded in accordance with university standards. Following successful completion of this course, all M.Sc. students will be required to continue registering in this course as an audit;
Authorship and Plagiarism	(c) successful completion of the GLIER Environmental Research Proposal course (M.Sc. level). The course will be graded according to university standards.
Graduation	(d) any additional course work mandated by the student's Examining Committee to eliminate perceived weaknesses in the student's background preparation or to increase awareness of other disciplines;
Faculty of Graduate Studies	(e) submission for publication of an original research article derived from the thesis to a refereed journal. Exemption from this requirement is granted only with permission from the GLIER Graduate Committee;
Graduate Faculty Designation	(f) submission of a Research Progress Report to the Master's Committee every six months and a meeting with the committee to review progress and problems encountered during the preceding six months and to plan future work;
Calendars	(g) completion of an original research project reported in a thesis;
Undergraduate Calendar	(h) defense of the thesis in a public lecture and before the Master's Committee.
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FACULTY OF SCIENCE

THE DOCTOR OF PHILOSOPHY DEGREE IN ENVIRONMENTAL SCIENCE

(Great Lakes Institute for Environmental Research (GLIER))

In addition to the general requirements, the following requirements must be met by all students proceeding to the Ph.D. degree.

Admission Requirements

Initial Application Procedure: The initial application procedure for students who wish to enrol in the Ph.D. program through GLIER includes:

- 1) Completion of the "Application for Admission to the Faculty of Graduate Studies " form;
- 2) one official transcript of all undergraduate and graduate studies from all colleges and universities attended;
- 3) three confidential letters of reference;
- 4) Graduate Record Examination, if required; and TOEFL results, as required;
- 5) letter of intent by the student that clearly outlines his/her interest in the program, proposed focus of study and the prospective supervisor.

Prospective students will be encouraged to contact a potential supervisor before applying for admission to the GLIER graduate programs. If a suitable supervisor cannot be identified, the student will be dissuaded from applying for admission.

Two streams of Ph.D. applicants are envisaged. Applicants holding an M.Sc. degree from the University of Windsor or from another recognized university may be admitted directly to the GLIER Ph.D. program. Alternatively, students enrolled in the M.Sc. program who are making exceptional progress may transfer to the PhD program after one year on the recommendation of their Master's Committee and with the approval of the GLIER Graduate Committee and the Faculty of Graduate Studies. Students eligible for transfer will have made outstanding progress in both course work and research, and have a first-author research article submitted to a refereed journal at the time of transfer.

Program Requirements

- (1) Students entering the program with an M.Sc. degree must fulfill all requirements listed below:
 - (a) compliance with regulations outlined in University of Windsor Graduate Calendar;
 - (b) successful completion during the first year of enrolment in the program of an oral comprehensive exam, administered by the student's Doctoral Committee. Students will be required to possess comprehensive knowledge of their field of study as well as any ancillary fields relevant to the dissertation topic (as determined in advance by the Doctoral Committee). Students will be evaluated on a satisfactory/ unsatisfactory basis;
 - (c) successful completion of the GLIER Multiple Stressors and Environmental Modelling course (one credit). The course will be graded in accordance with university standards;
 - (d) successful completion of the GLIER Multidisciplinary Graduate Seminar course (this course is taken over two semesters and is equivalent to two credits). The course will be graded in accordance with university standards. All Ph.D. students who have successfully completed this course will be required to audit the course each year following their first year of residency;
 - (e) any additional course work mandated by the student's Doctoral Committee to eliminate perceived weaknesses in the student's background preparation or to increase awareness of other disciplines;
 - (f) submission of a Research Progress Report to the Doctoral Committee every six months and meetings with the committee every six months to discuss progress and research plans;
 - (g) completion of an original research project reported in a dissertation;
 - (h) defence of the dissertation in a public lecture and before the Doctoral Committee; and
 - (i) publication of at least one original research article and submission of at least one additional article derived from the dissertation in a refereed journal. Exemption from this requirement is granted only with permission of the Graduate Program Committee.

(2) Students transferring to the Ph.D. program must have received no grade less than 80% or satisfactory for all course work taken in the GLIER M.Sc. program. In addition, transfer students must have at least one first-author research article submitted to a refereed journal at the time of transfer. Transfer can be granted only by the Faculty of Graduate Studies acting on a recommendation from the student's Doctoral Committee and the Graduate Program Committee. Students

approved for transfer into the Ph.D. program must comply with regulations (a) through (j) above.

In addition to courses offered in the GLIER programs, students will be advised to enroll in additional courses in other AAUs, as needed. It is expected that these courses will offer intensive treatments of particular topics to assist students in resolving perceived weaknesses. These courses are offered in a variety of AAUs including Earth Sciences, Biological Sciences, and Chemistry and Biochemistry and involve various combinations of theory and lab work. All graduate students must complete the GLIER Multidisciplinary Graduate Seminar course and must complete the GLIER Environmental Research Proposal course. The Multiple Stressors and Environmental Modelling Course is required for all Ph.D. students. Other courses will supplement core GLIER courses, be offered on a rotating basis, and be mandated by Doctoral Committees, depending on students' perceived deficiencies in background preparation.

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ENVIRONMENTAL SCIENCE: PROGRAMS

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SCHOOL OF CREATIVE ARTS

MFA IN FILM AND MEDIA ARTS

Admission Requirements

Graduates of four-year or their equivalent undergraduate programs in media arts and film production, as well as graduates from undergraduate programs from cognate disciplines from the University of Windsor or other universities, who are engaged in the study of art and/or, culture, including English, Anthropology and Sociology, Language and Literatures, Performing Arts, journalism, cinema and media studies, film and video production, and Music, among others, depending on the quality of their record, are eligible for admission into the proposed MFA program. Student admission will be determined by GPA, portfolio submission, and a clear statement of interest describing their intended film thesis production. A Media Arts thesis could be any of the following: audio/sound art, audio responsive installation, experimental video, animation, video installation art, interactive art, multimedia performance, and any fusion thereof.

Degree Requirements

Total Courses: Seven Courses + thesis(a)

(a) One theory course:
28-660 Seminar on Contemporary Issues

(b) Two studio production courses:
27-565 Studio Production
27-566 Studio Production II

(c) One Writing Methods Course:
28-600 Directed Individual Studies

(d) Three courses in Studio Practice:
27-562 Studio Practice II
27-563 Studio Practice III
27-564 Studio Practice IV

(e) Thesis Film/Media Arts

Course work will culminate in the defense of the Thesis. For Film, the thesis proposal includes a rationale, a budget, funding sources, production and post-production schedule, and other elements as appropriate to the project. For Media Arts, the thesis proposal includes a thesis project proposal, a draft of the thesis support document and an annotated bibliography of major sources used in the support document.

The thesis is worth 12 graduate credits and will be conducted under faculty supervision. Students will defend their thesis at the end of the year before a thesis panel. Those that fail the defense will have the option to appear before the thesis panel again after 6 months.

Students will be encouraged to attend local and national as well as online film and new media festivals to keep abreast with developments in the field.

VISUAL ARTS: COURSES

VISUAL ARTS: PROGRAM

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HISTORY

THE MASTER OF ARTS DEGREE

Admission Requirements

The normal requirement for admission to the M.A. program is an honours degree in History, with at least a 75% major average in undergraduate History courses. Students with an honours degree in fields other than History will be considered on the basis of their academic background and standing, and may be required to complete extra undergraduate courses as part of their program. Students with a three-year degree will be required to complete a full year (ten courses) of undergraduate courses (1 Masters Qualifying -- see section titled Application Procedures – Admission Levels).

MA in History

Program Requirements

Students must successfully complete six courses and a Major Paper. Students must take two required courses: 43-503 and 43-504 as well as four more History graduate courses. A student may, with the consent of the Graduate Advisor or AAU Head, take one course in another University of Windsor graduate program or in History at Wayne State University. Students usually complete the coursework in their first two semesters. The Major Paper will normally be written under the supervision of two History faculty members.

Although it is possible for students to complete the master's program in one calendar year (three terms in residence), many students complete in 4-5 semesters.

HISTORY: COURSES

HISTORY: PROGRAM

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HUMAN KINETICS

THE MASTER OF HUMAN KINETICS DEGREE

General Nature of the Program

There are two streams to the program, Sport Management and Applied Human Performance: both streams include a thesis option which normally will lead to doctoral work. Both offer an Internship option which combines coursework with practical work term placement designed to serve as an enrichment experience.

Admission Requirements

1) In addition to the general admission requirements of the Faculty of Graduate Studies and Research outlined in the section titled, Application Procedures, and in the section titled, The Master's Degree - Admission Requirements, the following are employed in the determination of a candidate's admission status:

(a) Thesis students must have a faculty research advisor before being admitted into one of the following areas of specialization:

- i) Applied Human Performance
- ii) Sport Management

(b) A person who holds a three-year degree in another discipline is required to complete the requirements for the Master's degree as outlined in the Graduate Calendar. Up to ten Kinesiology undergraduate courses beyond the minimum requirement may be deemed necessary by the graduate committee.

(c) A person who holds a four-year degree in another discipline will be required to take up to five Kinesiology undergraduate courses prior to taking graduate courses.

Normally, the makeup courses are to be selected from the areas of specialization: Applied Human Performance and Sport Management.

Undergraduate courses, assigned at the discretion of the admissions committee and the student's advisor to form the makeup requirements, may be found in the Undergraduate Calendar (under section titled [Human Kinetics - Courses](#)).

Program Requirements

1) In addition to the general requirements for the Master's degree, the candidate must:

(a) complete a minimum of four graduate-level courses and a thesis; and pass a oral examination based on a thesis,

or

(b) complete a minimum of seven graduate-level courses and an internship; and present an internship report

2) Only one Special Problems (95-510) course may be taken regardless of area of specialization.

3) *Master's Committee and Advisors:* Prior to a candidate's initial registration, the Graduate Coordinator will assign a program advisor for each candidate.

The appointed advisor may or may not act as chairperson of the Master's thesis committee, which will include at least two additional members, one of whom shall be a faculty member from outside Human Kinetics. An additional member from the graduate faculty of another university may be invited to serve on the Master's thesis committee.

4) *Examinations*

(a) *Thesis Option:* The thesis committee will conduct the oral examination of the thesis proposal. When the thesis has been completed, the thesis committee, in consultation with the candidate, will determine whether to proceed with or postpone the final oral examination. For the final oral examination of the thesis, the committee will be supplemented by another member of the Kinesiology graduate faculty who will act as the chairperson. Following the successful defense, the candidate will deposit all copies of the thesis in the Office of the Faculty of Graduate Studies and Research for binding and distribution (two copies for the Leddy Library, a copy to the Faculty of Human Kinetics).

(b) *Internship Option:* The internship consists of a minimum of 360 hours of applied work experience in a sport management or applied human performance setting. The internship option is open to students who have completed four graduate courses. Students develop an internship experience in conjunction with a graduate faculty member prior to registering for the internship. Students are required to complete the "Internship Objectives Form" prior to completing 50 hours of their experience. Their work experience is supervised and evaluated (mid-term and final evaluation) by the cooperating field professional. Students are also required to prepare and defend a research report. Final evaluation is on a Pass/Non-Pass basis and the student is required to pass both the experience and the research report components of the internship.

Following the successful completion, the candidate deposits two copies of the internship and research report in the Faculty of Human Kinetics.

APPLIED HUMAN PERFORMANCE

The program focuses on the application of movement science in sport, the workplace, and activities of daily living. Students pursue course work, thesis research, and internships that examines the basic and applied principles of human biomechanics, motor performance and exercise physiology. To fulfil the degree requirements, each candidate must complete the following:

Thesis Option

- 1) Three courses from 95-504, 95-510, 95-511, 95-522, 95-523, 95-524, 95-525, 95-526, 95-527, 95-528, 95-595
- 2) A Thesis (95-797).
- 3) One other graduate course chosen in consultation with the thesis advisor.

Internship Option

Five of 95-504, 95-511, 95-522, 95-523, 95-524, 95-525, 95-526, 95-527, 95-528, 95-595
Two other graduate courses chosen in consultation with the internship advisor.
Internship (95-795).

SPORT MANAGEMENT

The program focuses upon the understanding of the components of organizational behaviour in the context of amateur and professional sport environments. Students will pursue course work and either thesis research or an internship that focuses on topics such as leadership, organizational effectiveness, sport marketing, organizational change, and legal, philosophical and social issues of management. To fulfil the degree requirements, each candidate must complete all of the following:

Thesis Option

- 1) Two courses from 95-500, 95-501, 95-502, 95-503, 95-505, 95-506, 95-508, 95-510, 95-595
- 2) Research Methods (95-562)
- 3) A Thesis (95-797)
- 4) One other graduate course chosen in consultation with the thesis advisor

Internship Option

- 1) Four courses from 95-500, 95-501, 95-502, 95-503, 95-505, 95-506, 95-508
- 2) Research Methods (95-562)
- 3) Two other graduate courses chosen in consultation with the internship advisor
- 4) Internship (95-795)

KINESIOLOGY: COURSES

KINESIOLOGY: PROGRAM

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FACULTY OF ENGINEERING

THE DEGREE OF DOCTOR OF PHILOSOPHY

Industrial and Manufacturing Systems Engineering (Multi-Disciplinary Program)

Program Overview

The objective of the multi-disciplinary Ph.D. program is to impart multi-disciplinary education and skills in an environment that fosters excellence in research and awareness of the many challenges of modern Industrial and modern Manufacturing Systems. The program will provide students with an opportunity to acquire, through courses, seminars and networking, advanced academic and professional knowledge in the multi faceted area of industrial and manufacturing systems and related subjects as well as develop basic and applied research skills to become independent research investigators capable of disseminating knowledge and research results through scholarly publications.

The multi-disciplinary Ph.D. program in Industrial and Manufacturing Systems Engineering is based in, and coordinated by, the Department of Mechanical, Automotive and Materials Engineering, in collaboration with faculty from other Faculties. The participating faculty for the Multi-Disciplinary PhD program in Industrial and Manufacturing Systems Engineering are drawn from several disciplines and departments within the University, namely, Department of Mechanical, Automotive and Materials Engineering, the Faculty of Human Kinetics (Department of Kinesiology), the Odette School of Business, the Faculty of Science (Operational Researchers), Electrical and Computer Engineering Department and the School of Computer Science.

Faculty involved in the program

A. Alfakih, Ph.D., Mathematics and Statistics

D. Andrews, Ph.D., Human Kinetics

A. Azab, Ph.D., Mechanical, Automotive and Materials Engineering (MAME)

^[SEP]W. Abdul-Kader, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)

^[SEP]F. Baki, Ph.D., Business. Cross-appointed to MAME^[SEP]

R. Caron, Ph.D., Mathematics and Statistics, Cross-appointed to MAME^[SEP]

X. Chen, Ph.D., P.Eng., Electrical and Computer Engineering^[SEP]

H. ElMaraghy, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME), [Tier 1 Canada Research Chair (CRC) Manufacturing Systems]. Chair of the Program^[SEP]

W. ElMaraghy, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)

M. Hlynka, Ph.D., Mathematics and Statistics

R. Lashkari, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)

^[SEP]L. Oriet, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)^[SEP]

Z. Pasek., Ph.D., Mechanical, Automotive and Materials Engineering (MAME)

^[SEP]J. Urbanic, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)

M. Wang, Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)^[SEP]

G. Zhang, .Ph.D., P.Eng., Mechanical, Automotive and Materials Engineering (MAME)^[SEP]

X. Yuan, Ph.D., Computer Science

Area of Specialization:

Research within the Industrial and Manufacturing Systems Ph.D. program focuses on modern manufacturing systems that are flexible and well integrated. It deals with various modules such as: 1) physical components of the system (machines, robots, inspection devices, material handling equipment, etc.), 2) effective information systems for controlling, monitoring, scheduling and operating in a dynamically changing environment, 3) human related issues such as ergonomics, interaction among people and between people and machines as well as human modeling, 4) management of technologies and operational issues throughout the manufacturing enterprise, and 5) integration of all elements to ensure achieving the desired competitiveness.

Candidacy

Admission to graduate study does not imply admission to candidacy for a degree. The candidacy of a student normally will be determined within the second year after initial registration in the doctoral Program.

Candidacy will be granted to students who meet all of the following requirements:

- Satisfactory completion of the comprehensive examination;
- Demonstration to the doctoral committee of ability to conduct independent research;
- Acceptance by the doctoral committee of the research proposal.

The doctoral committee will assess the student's competence to continue research on the basis of (a), (b) and (c) above, and make a recommendation accordingly to the Dean of the Faculty of Graduate Studies through the Chair of the Graduate Program.

Admission Requirements

The Ph.D. program in Industrial and Manufacturing Systems Engineering will be governed by the general regulations regarding the Ph.D. degree of the Faculty of Graduate Studies. ([click here for general admissions regulations.](#))

Program Curriculum Structure

Degree Requirements

Total courses:

Satisfactory completion of at least four graduate courses, comprising a minimum of twelve semester hours, beyond the courses required for the Master's degree. See Section on "Major Requirements" for details.

The specific minimum program requirements for the Ph.D. degree include the successful completion of:

(a) Course requirements: Satisfactory completion of at least four graduate courses, comprising a minimum of twelve semester hours, beyond the courses required for the Master's degree. The graduate course offerings through the Department of Mechanical, Automotive and Materials Engineering and selected related courses from other areas are designed to complement the research focus of the core faculty in the area of Industrial and Manufacturing Systems Engineering. The minimum course requirement for the multi disciplinary Ph.D. Program is 4; at least 2 from the 91-5XX courses listed in category A and a minimum of one from category B would be selected. This is in addition to the Graduate Seminar course (91-595). Students will be required to register throughout the entire program and give presentations, and all students will be expected to attend each seminar (no less than 75% of all seminars). The course will be graded on a PASS/FAIL basis (1 Lecture Hour a week). This course will include presentations by graduate students, staff, and visiting scientists.

The current list of A and B courses will be made available to the students through the Department (<http://www.uwindsor.ca/engineering/mame/379/graduate-programs>).

(b) A comprehensive examination. (See details under examinations)

(c) Satisfactory progress in research within each review period. The doctoral committee will conduct a periodic review, which will include at least one formal seminar a year, after the first year of residency, to establish that adequate progress in research has been accomplished by the candidate. The doctoral committee will also grant permission to write the dissertation when it decides that the candidate has achieved sufficient competence in carrying out research and when the candidate has done substantial research. During the annual seminar, Ph.D. students will be required to review their research progress and results. The Ph.D. Supervisory Committee will complete the evaluation.

(d) A dissertation on the research. A dissertation embodying the results of an original investigation in the field of specialization is required of all candidates for the degree of Doctor of Philosophy. Each candidate will be required to make an oral presentation of the dissertation research and will be examined orally on the subject of the dissertation and related fields.

Residence and Time Limits: Every student will undertake a full Program of study for a minimum of three years beyond the Baccalaureate of Engineering or its equivalent. Credit for one of these years may be given for the time spent in proceeding to a Master's degree. Credit for one of these years may also be given for work done at another institution. A student admitted to a Ph.D. Program requiring the student's attendance for a minimum of three years must complete all requirements within seven years. Students requiring a minimum of two years' residence must complete all requirements within six years.

Committees: Research undertaken as part of a doctoral Program is directed and supervised by a doctoral committee, which is assigned within the first term of registration. Whereas the student's advisor provides day to day guidance and direction, this committee is ultimately responsible for the overall supervision to ensure that adequate progress is being maintained.

The doctoral committee will be composed of at least 4 faculty members including:

- 1) the student's advisor,
- 2) two other faculty members from within the program, and
- 3) one internal external faculty member outside the student's department and within the University of Windsor.

The student's advisor will recommend the members of the doctoral committee, whose appointment must be approved by the Executive Committee of Graduate Studies and Research.

Examinations:

Qualifying Examination. At the discretion of the doctoral committee, a qualifying examination may be required. A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed before the student registers for the second year of Ph.D. work.

The Proposal: Normally within the first 2 years, the student will present in the form of a seminar an outline of their proposed thesis research. This will be presented to the doctoral committee who must approve, with or without modifications, or reject the proposal. Thereafter, at least once a year the student will report their progress in the form of a seminar.

Comprehensive Examination: Students who have previously obtained a Master's degree must attempt this examination very early between twelve to eighteen months of registering for the Ph.D. Program. Other students must take it within twenty four months of registration for the Ph.D. Program. A comprehensive examination committee will conduct the comprehensive examination. The committee will consist of the chair, three members of the supervisory committee, including the supervisor, and an additional member who has a scholarly interest in the student's general area of specialization.

This set of examinations requires the students to demonstrate an adequate background in the general discipline of applied science, and an advanced knowledge in their fields of specialization and research.

The comprehensive examinations will be conducted in two parts:

- a) In the first part, a scheduled supervised written portion, of three hours duration, designed to test the student's general knowledge on core subjects in the field of study as approved by the examination committee, with questions set and answers evaluated by the examination committee;
- b) An oral examination to be evaluated by the examination committee. The objective of this part of examination is to evaluate the student's ability to integrate general knowledge from different areas into their research plan. The candidate will be required to submit a report, up to 25 pages in length, on the proposed research program. The report must include: (i) a critical survey of the directly related literature in the field, and (ii) an outline of the proposed research program, including its justification, the approach to be taken, specific analytical or experimental methods, perceived or anticipated problems, and a proposed timetable to accomplish the task. Five copies of the report must be in the hands of the examining committee at least seven days prior to the date of the oral examination. The oral examination will be conducted in two sessions. In the first part, the candidate will be required to present their report in a summary fashion to the committee followed by questions directly related to the proposal and the candidate's specific area of research. The second part of the oral examination will emphasize the candidate's comprehension as well as breadth and depth of knowledge of their discipline area. The duration of the two parts of the oral examination is expected to be about one and half hours each, separated by a recess of half an hour .

It is the responsibility of the examining committee chair to call a meeting of the committee at least seven days prior to oral examination to: (i) examine the candidate's records and the type of background necessary to carry on their research successfully, and (ii) assign the preparation of the written questions for the first part, to members of the committee, other than the supervisor. The supervisor will not participate in the preparation of the written questions but is expected to participate in the oral examination.

The Examination Committee will determine the student's overall performance and success in the comprehensive examination. If the student is unsuccessful, the committee may require:

- i. That the student repeats all or part of the comprehensive examination at a specified time;
- ii. That the student take and pass remedial course work before repeating all or part of the examination; or
- iii. After consultation with, and approval by, the doctoral committee, that the student withdraws from the program.

Final Examination. The final appraisal of the dissertation and the conduct of the final oral examination of the dissertation will be carried out by an examining committee. The examining committee will consist of the doctoral committee, the Dean of Graduate Studies and Research (or designate) as chairperson (non voting) and an external examiner. The final examination normally follows a public seminar by the candidate, open to the public. The passing of the final oral examination of the dissertation requires both an adequate dissertation and a satisfactory defence of the dissertation. The examining committee will conduct this examination, in accordance with the Faculty of Graduate Studies procedures.

This set of examinations requires the students to demonstrate an adequate background in the general discipline of Industrial and Manufacturing Systems, and an advanced knowledge in their fields.

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING: COURSES

FACULTY OF ENGINEERING: PhD

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Programs (Listed by Department)	<i>Total courses:</i> A minimum of 4 courses
Programs (Listed by Faculty)	(a) All students must complete the following 3-credit courses and a dissertation for successful completion of the degree: 95-692. Independent Study 95-698. Community Internship 95-695. Doctoral seminar (must register for 6 terms) Minimum of one additional graduate level course
Graduate Diploma Programs	(b) Students must have graduate level competency in statistics and/or research design. Depending on graduate level courses taken at the Masters level, students may be asked to complete either 95-507 (Quantitative Analysis in Kinesiology) or 95-562 (Research Methods), or their equivalent.
Courses	(c) Demonstration of teaching competency – In addition to preparing doctoral candidates as researchers, they will also receive preparation for University level teaching in the completion of teaching competency units. All doctoral students must accumulate 10 teaching component points over the course of their degree, with no more than half the points being accumulated in one area.
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FACULTY OF LAW

PROGRAM

Master of Laws (LLM)

JOINT PROGRAMS

Juris Doctor/Master of Social Work (JD/MSW) Joint Program

Note: For information on the Juris Doctor, visit the Law Calendar at the Faculty of Law website: <http://www.uwindsor.ca/law/law-calendar-1>

LLM: COURSES

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78-667. Current HR Trends (Stream capstone)

That the stream be included on the diploma parchment:
Master of Management, International Accounting and Finance
Master of Management, Logistic and Supply Chain Management
Master of Management, Manufacturing Management
Master of Management, Human Resources Management

ODETTE SCHOOL OF BUSINESS: COURSES

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MATHEMATICS AND STATISTICS

PROGRAMS

Mathematics and Statistics (MSc) (Mathematics Field)

Mathematics and Statistics (MSc) (Statistics Field)

Master of Actuarial Science (M.Act.Sc)

Mathematics and Statistics (PhD)

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Programs (Listed Alphabetically)	THE DOCTOR OF PHILOSOPHY DEGREE IN MATHEMATICS AND STATISTICS
Programs (Listed by Department)	Admission Requirements
Programs (Listed by Faculty)	For admission requirements and period of study, the general regulations of the Faculty of Graduate Studies should be consulted (see the section titled, The Degree of Doctor of Philosophy). Qualifying examinations will not normally be required.
Graduate Diploma Programs	CANDIDACY
Courses	Students will be recommended for candidacy (see section titled, The Degree of Doctor of Philosophy - Admission Requirements) only after successful completion of the Comprehensive Examinations and course work.
Alphabetical by Department	Degree Requirements for the Ph.D. (Statistics Field)
Admission Information	1) <i>Course Work:</i> Students admitted with an M.Sc. or equivalent must successfully complete at least four graduate courses numbered with the prefix 65-; further graduate courses may be assigned by the Graduate Studies Committee in consultation with the supervisor. Transfer credits will not be allowed. (Up to two courses prefixed 65- may be replaced by 62-510 and/or 62-511.)
Application Information	Students admitted with an Honours B.Sc., or equivalent, which is done only in exceptional cases, must successfully complete at least twelve graduate courses, eight of which must be numbered with the prefix 65- and the other four must either be numbered 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor; further graduate courses may be assigned by the Graduate Studies Committee in consultation with the advisor supervisor. Transfer credits will not be allowed.
Awards and Financial Aid	It is strongly recommended that all Ph.D. students in Statistics take a measure theoretic probability course.
Registration	The Department of Mathematics and Statistics requires that students maintain at least a 70% average at all times. Term courses with a grade lower than 70% will not be accepted for graduate credit.
Academic Regulations	Ph.D. students must give a fifty-minute presentation prior to the thesis defense.
Faculty Regulations	2) <i>Doctoral Committee:</i> within the student's first term of study at the doctoral level, a doctoral committee will be appointed by the Head of the Department upon the advice of the Graduate Studies Committee. Refer to the calendar section "Faculty Regulations for the Doctor of Philosophy and the Master's Degrees".
Additional Degrees	3) <i>Dissertation:</i> The dissertation shall be defended at an oral examination. Refer to the calendar section "Faculty Regulations for the Doctor of Philosophy and the Master's Degrees".
Exam and Grading Procedures	4) <i>Comprehensive Examinations:</i> A student must pass a series of three written comprehensive examinations as follows: i. Paper I-Mathematical Statistics and Probability ii. Paper II-Statistics OR Probability iii. Paper III-Topics (two topics mutually agreed upon by the advisor supervisor and student).
Authorship and Plagiarism	If a student fails an examination, it may be repeated once, but if the examination is failed a second time, the student must withdraw from the program. These examinations must be successfully completed within twenty-five months of first registration in the doctoral program. If this deadline is not met, the student must withdraw from the program.
Graduation	5) Statistics Doctoral students must attend either 72 seminars or 75 percent of all seminars available during fulltime registration, whichever is the smaller number. Seminars include the colloquium series, graduate major paper presentations and thesis presentations.
Faculty of Graduate Studies	Degree Requirements for the Ph.D. (Mathematics Field)
Graduate Faculty Designation	1) <i>Course Work:</i> Students admitted with an M.Sc. or equivalent must successfully complete at least four graduate courses numbered with the prefix 62-; further graduate courses may be assigned by the Graduate Studies Committee in consultation with the supervisor. Transfer credits will not be allowed.
Calendars	The Department of Mathematics and Statistics requires that students maintain at least a 70% average at all times. Term courses with a grade lower than 70% will not be accepted for graduate credit.
Undergraduate Calendar	Students admitted with an Honours B.Sc., or equivalent, which is done only in exceptional cases, must successfully complete at least twelve graduate courses, eight of which must be numbered with the prefix 62- and the other four must either be numbered 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor; further graduate courses may be assigned by the Graduate Studies Committee in consultation with the
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supervisor. Transfer credits will not be allowed.

Ph.D. students must give a fifty-minute presentation prior to the thesis defense.

2) *Doctoral Committee*: within the student's first term of study at the doctoral level, a doctoral committee will be appointed by the Head of the Department upon the advice of the Graduate Studies Committee. Refer to the calendar section "Faculty Regulations for the Doctor of Philosophy and the Master's Degrees".

3) *Dissertation*: The dissertation shall be defended at an oral examination. Refer to the calendar section "Faculty Regulations for the Doctor of Philosophy and the Master's Degrees".

4) *Comprehensive Examinations*: A student must pass a series of three written comprehensive examinations two of which must be chosen from the following areas: Algebra, Analysis and Operational Research. The third exam, which may be written or oral, is in the area of specialization to be set by the student's doctoral supervisor and doctoral committee.

If a student fails an examination, it may be repeated once, but if the examination is failed a second time, the student must withdraw from the program (see section titled, The Degree of Doctor of Philosophy - The Dissertation). These examinations must be successfully completed within twenty-five months of first registration in the doctoral program. If this deadline is not met, the student must withdraw from the program.

5) Mathematics Doctoral students must attend either 72 seminars or 75 percent of all seminars available during fulltime registration, whichever is the smaller number. Seminars include the colloquium series and graduate major paper and thesis presentations.

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Mechanical Engineering (MEng) (Automotive Stream): Program Sequencing

TERM 1

Requirements: 8 courses

Two mandatory courses:

85-508. Fundamentals of Clean Engine Technology

85-510. Vehicle Dynamics

plus,

Two additional courses from the following list as determined by the Faculty of Engineering and the Centre for Executive Education, and made available for the term:

85-501. Design & Analysis of Engineering Experiments

85-502. Sustainability: Principles & Practices

85-503. Advanced Operations Research 1

85-504. Engineering Design, Methodology & Applications

85-505. Product Innovation & Design Management

85-506. Tribology: Materials & Manufacturing Aspects

85-507. Turbulent Reacting Flows

85-509. Introduction to Finite Element Analysis

85-511. Bluff Body Aerodynamics

85-512. Managing Employees

TERM 2

Three mandatory courses:

85-525. Automotive Applications for Noise, Vibration & Harshness Evaluation

85-526. Aftertreatment & IC Engine Modeling

85-529. Automotive Paint and Industrial Coatings

One additional course from the following list as determined by the Faculty of Engineering and the Centre for Executive Education, and made available for the term:

85-521. Air Pollution from Mobile Sources

85-522. Advanced Topics in MEMS

85-523. Manufacturing Systems Simulation

85-524. Corrosion Principles & Prevention

85-527. Automotive Heat Exchange Design

85-528. Heat Transfer & Fluid Flow in Microchannels

85-514. Management Information Systems

TERM 3

One mandatory course:

85-533. Automotive Sensor Systems

plus,

Two additional courses from the following list as determined by the Faculty of Engineering and the Centre for Executive Education, and made available for the term:

85-531. Introduction to Micro Fuel Cells

85-532. Active Vision Systems

85-534. Flexible Manufacturing Systems

85-519. Linear Systems in Mechanics

85-536. Casting: Modeling & Simulation

85-537. Metal Casting Technology

85-538. Finite Element Methods for Crash-worthiness and Impact Analysis

85-500. Special Topics in Automotive Engineering

85-591. Engineering Venture Formation

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CHEMISTRY AND BIOCHEMISTRY

THE MASTER OF MEDICAL BIOTECHNOLOGY DEGREE

The Master of Medical Biotechnology (MMB) is a professional program that provides students with both a solid foundation of the theoretical concepts and practical industrially applicable laboratory technique experiences used in medical biotechnology industries. In addition, students will also receive training in business plan development and product commercialization.

Admission Requirements

In accordance with our current admission requirements for the MSc program, students entering this program must have a four (4) year BSc or BSc (Honours) degree in Biochemistry, Biology, Chemistry, or accepted equivalent from an academic institution approved by the University of Windsor.

They must have the equivalent of a 70% average or higher in their undergraduate studies when converted to Ontario standards.

Candidates must demonstrate English proficiency by meeting or exceeding an IELTS score of 6.5 (or equivalent – i.e. 83 TOEFL Internet Based Test). If an applicant receives an English language proficiency score of less than 6.5 (or equivalent) they may be offered a conditional letter of acceptance pending successful completion of an approved English Language Training program.

Applicants must pass a successful interview with a representative or agent acting on behalf of the University of Windsor and submit two letters of reference.

This is a premium program as such enrolment is limited. Preference will be given to candidates who exceed the minimum requirements and those who have demonstrated work experience in the field of biotechnology.

Degree Requirements

Total courses: 12 credits (10 courses, two of which are worth two course credits)

59-670. Protein Structure and Function
 59-673. Drugs: From Discovery to Market
 59-674. Clinical Biochemistry
 59-675. Biochemistry and Cell Biology of Lipids and Membranes
 59-676. Human Physiology and Mechanisms of Disease
 59-677. Biotechnology Laboratory (equivalent to two (2) semester-length courses)
 59-680. Strategic Management of Biotech Innovations
 59-690. Biotechnology Entrepreneurship (2 course credits)
 78-614. Marketing

One of the following two:
 78-631 International Business
 78-634 Leadership and Organizational Change

Suggested Program Sequencing

Fall Semester (Term 1):

59-670
 59-676
 59-675

Winter Semester (Term 2):

59-680
 59-674
 59-673

Summer Semester (Term 3):

59-677
 One of the 78-631 OR 78-634

Fall Semester (Term 4):

59-690
 78-614

Standing Required for Continuation in the Program and for Graduation

Students must not have obtained a grade of less than 70% in any course in the MMB program.

CHEMISTRY AND BIOCHEMISTRY: COURSES

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NURSING

THE DOCTOR OF PHILOSOPHY DEGREE IN NURSING

The PhD program, focusing on health outcomes and health services research, will involve four years of full-time study. It will combine coursework, comprehensive exams and a dissertation. This program will prepare graduates to assume leadership roles in academic and practice settings. Research and scholarly activities will prepare graduates to contribute to nursing practice, the design and delivery of health care, and policy development.

Admission Requirements

Applicants must:

Have a completed baccalaureate degree in nursing from a recognized university

Have a completed Master's degree in nursing or other relevant discipline from a recognized university

Be licensed/certified to practice as a registered nurse in a Canadian province or internationally

Have a minimum 77% (B+) average in their Master's program

Submit:

Curriculum vitae (CV)

Three professional letters of reference.

A statement of research interest and a career plan

Provide two examples of independent scholarly work (e.g., publications, research reports, course assignments)

For international students, successful completion of an English Language Proficiency Exam may be required. Refer to

Application Information in Graduate Calendar for requirements

Other:

Interview may be required

Degree requirements:

63-610. Philosophy of Science in Nursing

63-620. Advanced Perspectives in Quantitative Research Methods and Analysis

63-630. Advanced Perspectives in Qualitative Research

One graduate level course

63-600. Seminar Course

63-741 Comprehensive Exam

63-798. Dissertation

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NURSING

THE MASTER OF SCIENCE DEGREE IN NURSING

Admission Requirements

- 1) All general regulations of the Faculty of Graduate Studies and Research admission requirements are applicable.
- 2) Applicants must have a Bachelor of Science in Nursing or equivalent which includes physical assessment, and courses in research and statistics. Consideration may be given to nurse applicants holding degrees in other cognate disciplines.
- 3) Applicants must have maintained an overall 70% average in their undergraduate nursing program.
- 4) Applicants must be eligible for a current certificate of registration with the College of Nurses of Ontario.
- 5) Three Faculty of Nursing confidential reports must be completed by academic/professional referees, with at least one from an academic who has taught the applicant and one from a recent employment supervisor.
- 6) An "Applicant Profile" must be completed which includes a section addressing goals in seeking graduate education (narrative statement).
- 7) Applicants whose native language is not English must submit certification of English proficiency (official TOEFL score or equivalent MELAB).
- 8) Applications for admission must be completed by February 15 (or until seats have been filled).
- 9) An interview may be required.

Degree Requirements

- 1) Candidates for the Master of Science degree in Nursing will pursue studies in one of two fields:
 - (a) Advanced Clinical Nursing
 - (b) Nursing Leadership
- 2) The requirements may be satisfied by pursuing a program of studies consisting of six prescribed courses and a thesis, or six prescribed courses, two other courses and a major project/paper. Those who wish to include a thesis in their program must request approval from the Graduate Committee of the Faculty of Nursing.

Additional information concerning the procedure for theses and major papers may be obtained from the coordinator of graduate studies (see section titled, The Master's Degree - Thesis or Major Paper).

- 3) Prescribed courses:

63-581. Theoretical Foundations of Nursing
63-582. Advanced Statistics
63-583. Research Methods in Nursing
63-599. Clinical Judgment in Nursing

and either 63-592 and 63-594, or 63-596 and 63-597, depending on the selected area of focus.

- 4) Clinical Judgment in Nursing Practice will involve one term of full-time study in a setting selected in consultation with the student. Students will select individuals, families, groups, populations and/or communities in various health care facilities, and/or community settings, to develop their knowledge and skill for advanced nursing practice.

- 5) All candidates' programs are subject to approval by the graduate coordinator.

- 6) The minimum grade required in all graduate courses is 70%. Any student who does not successfully complete a course may repeat it once at the discretion of the Dean of the Faculty of Nursing and the Dean of Graduate Studies and Research. The student may not repeat more than one course.

- 7) The maximum time limit for part-time is five years; full-time is 3 years.

- 9) Students of the Faculty of Nursing are required to demonstrate behaviours consistent with the "Professional Standards for Registered Nurses and Registered Practical Nurses, Standards for the Therapeutic Nurse-Client Relationship and the Ethical Framework for Nurses in Ontario" of the College of Nurses of Ontario, and "Explanation of Professional Misconduct" of the College of Nurses of Ontario," and the academic policies of the University of Windsor. Failure of any Nursing student to conform to the principles of these documents may result in dismissal from any of the Faculty of Nursing's programs.

The Master's thesis committee is chosen in the manner described in the section titled, The Master's Degree - Program

Requirements of this Graduate Calendar. The final examination will be conducted by the Master's committee.

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NURSING

THE MASTER OF NURSING (MN) (ADVANCED CLINICAL PRACTICE FIELD AND LEADERSHIP IN NURSING FIELD)

Admission Requirements

- 1) All general regulations of the Faculty of Graduate Studies are applicable.
- 2) Applicants must have a Bachelor of Science in Nursing or equivalent which includes physical assessment, and courses in research and statistics. Consideration may be given to nurse applicants holding degrees in other cognate disciplines.
- 3) Applicants must have maintained an overall 70% average in their undergraduate nursing program.
- 4) Applicants must be eligible for a current certificate of competence as Registered Nurses in Ontario.
- 5) Three Faculty of Nursing confidential reports must be completed by academic/professional referees, with at least one from an academic who has taught the applicant and one from a recent employment supervisor.
- 6) An "Applicant Profile" must be completed which includes a section addressing goals in seeking graduate education (narrative statement).
- 7) Applicants whose native language is not English must submit certification of English proficiency (official TOEFL score or equivalent MELAB).
- 8) Applications for admission must be completed by February 15 (or until seats have been filled).
- 9) An interview may be required.

Degree Requirements

It should be noted that two areas of concentration - Advanced Clinical Practice and Leadership in Nursing - are the same as the M.Sc. program. There is also a third area of concentration available through the Master of Nursing: the [Primary Health Care Nurse Practitioner Field](#).

Total courses: Ten (10) courses

(a) Students in the course-based master's (MN) must take the same six (6) compulsory courses required of students in the Master of Science Program (MSc):

- 63-581. Theoretical Foundations of Nursing
- 63-582. Advanced Statistics
- 63-583. Research Methods in Nursing
- 63-599. Clinical Judgment in Nursing

(b) 63-592 (Health of Individuals Families and Groups) and 63-594 (Community and Population Health) OR 63-596 (Theoretical Foundation of Nursing Leadership) and 63-597 (Innovations in Nursing Leadership)

(c) four other courses, at least two of which must be Nursing. Nursing courses may be selected from any of the following:

- 63-570. Counselling Process in Nursing
 - 63-572. Women and Health
 - 63-574. Organizational and Management Theories Relevant to Health Care Organizations
 - 63-576. Management of Resources in Nursing
 - 63-578. Seminar in Current Nursing Issues
 - 63-580. Selected Readings in Nursing
 - 63-589. Summer Institute of Clinical Health Research
- two graduate course may be taken from other disciplines.

Course Sequencing

YEAR I

Fall Semester

- 63-581. Theoretical Foundations of Nursing
- 63-583. Research Methods In Nursing

Winter Semester

- 63-582. Advanced Statistics
 - 63-592. Health of Individuals, Families and Groups
- or

63-596. Theoretical Foundations of Nursing Leadership

Summer Semester

Nursing/Other graduate course(s)

YEAR II

Fall Semester

Nursing/Other graduate course

63-594. Community and Population Health

or

63-597. Innovations in Nursing Leadership

Winter Semester

63-599. Clinical Judgment in Nursing Practice

Summer Semester

Nursing/Other graduate course(s)

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NURSING

THE MASTER OF NURSING (MN) (PRIMARY HEALTH CARE NURSE PRACTITIONER FIELD)

Admission Requirements

- 1) All general regulations of the Faculty of Graduate Studies and Research admission requirements are applicable.
- 2) Applicants must have a Bachelor of Science in Nursing or equivalent which includes physical assessment, and courses in research and statistics. Consideration may be given to Registered Nurses (RN) applicants holding degrees in other cognate disciplines.
- 3) Applicants must have maintained an overall B average in their undergraduate nursing program.
- 4) Applicants must have a current certificate of registration as a Registered Nurse with the College of Nurses of Ontario.
- 5) Three Faculty of Nursing confidential reports must be completed by academic/professional referees, with at least one from an academic who has taught the applicant and one from a recent employment supervisor.
- 6) An "Applicant Profile" must be completed which includes a section addressing goals in seeking graduate education (narrative statement).
- 7) Applicants whose native language is not English must submit certification of English proficiency (official TOEFL score or equivalent).
- 8) Applications for admission must be completed by February 15.
- 9) An interview may be required.

In addition:

Applicants must have the equivalent of two years full-time relevant nursing practice within the past five years.

Preference will be given to Ontario residents whose work experience in nursing has been continuous and who have clinical experience in one or more of the following areas: primary health care, ambulatory care, public health, community health, long term care, emergency care, outpost nursing.

Note: This is a limited enrolment program. Therefore, possession of minimum published requirements does not guarantee admission

Information/NP application can also be obtained on the internet at <http://np-education.ca>.

Standing Required for Continuation in Program and for Graduation

The Faculty of Graduate Studies and Research requires that students maintain at least a 70% cumulative average at all times. A minimum grade of 70% is required in each Primary Health Care Nurse Practitioner course. A student in the Primary Health Care Nurse Practitioner program who does not obtain credit in any course may repeat the course once only. There may be no more than a 3-year lapse between Nurse Practitioner courses. Application review will begin March 1st; applications should be made through the Ontario Universities' Application Centre (OUAC).

Program Requirements

This is a 24-month program designed for nurses who have a BScN.

Total courses: 10 courses (45 credit hours)

YEAR I

Fall

63-581 Theoretical Foundations

63-550 Pathophysiology for the Nurse Practitioner (3 credit hours, 2 terms)

63-557. Advanced Health Assessment and Diagnosis I (4.5 credit hours)

Winter

63-550. Pathophysiology for the Nurse Practitioner (3 credit hours, 2 terms)

63-558. Advanced Health Assessment and Diagnosis II (4.5 credit hours)

YEAR II

Fall

63-583 Research Methods in Nursing

63-552. Roles and Responsibilities of the Nurse Practitioner in Primary Health Care (3 credit hours, 2 terms)

63-561. Therapeutics in Primary Health Care I (4.5 credit hours)

Winter

63-582 Advanced Statistics

63-552. Roles of the Nurse Practitioner in Primary Health Care (cont'd)

63-562. Therapeutics in Primary Health Care II (4.5 credit hours)

Summer

63-595. Integrative Practicum (12 credit hours)

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NURSING

GRADUATE DIPLOMA - PRIMARY HEALTH CARE NURSE PRACTITIONER

Admission Requirements

- 1) All general regulations of the Faculty of Graduate Studies and Research admission requirements are applicable.
- 2) Applicants must have a Master's degree in Nursing.
- 3) Applicants must have maintained an overall B average in their undergraduate nursing program.
- 4) Applicants must have a current certificate of registration as a Registered Nurse with the College of Nurses of Ontario.
- 5) Three Faculty of Nursing confidential reports must be completed by academic/professional referees, with at least one from an academic who has taught the applicant and one from a recent employment supervisor.
- 6) An "Applicant Profile" must be completed which includes a section addressing goals in seeking graduate education (narrative statement).
- 7) Applicants whose native language is not English must submit certification of English proficiency (official TOEFL score or equivalent).
- 8) Applications for admission must be completed by February 15.
- 9) An interview may be required.

In addition:

Applicants must have the equivalent of two years full-time relevant nursing practice within the past five years.

Preference will be given to Ontario residents whose work experience in nursing has been continuous and who have clinical experience in one or more of the following areas: primary health care, ambulatory care, public health, community health, long term care, emergency care, outpost nursing.

Note: This is a limited enrolment program. Therefore, possession of minimum published requirements does not guarantee admission

Information/NP application can also be obtained on the internet at <http://np-education.ca>.

Standing Required for Continuation in Program and for Graduation

The Faculty of Graduate Studies and Research requires that students maintain at least a 70% cumulative average at all times. A minimum grade of 70% is required in each Primary Health Care Nurse Practitioner course. A student in the Primary Health Care Nurse Practitioner program who does not obtain credit in any course may repeat the course once only. There may be no more than a 3-year lapse between Nurse Practitioner courses. Application review will begin March 1st; applications should be made through the Ontario Universities' Application Centre (OUAC).

Program Requirements

This is a twelve-month program designed for nurses who already have a Master's in Nursing

Fall

- 63-550. Pathophysiology for the Nurse Practitioner (3 credit hours, 2 terms)
- 63-552. Roles and Responsibilities of the Nurse Practitioner in Primary Health Care. (3 credit hours, 2 terms)
- 63-557. Advanced Health Assessment and Diagnosis I (4.5 credit hours)
- 63-561. Therapeutics in Primary Health Care I (4.5 credit hours)

Winter

- 63-550. Pathophysiology for the Nurse Practitioner (cont'd, 3 credit hours, 2 terms)
- 63-552. Roles of the Nurse Practitioner in Primary Health Care (cont'd, 3 credit hours, 2 terms)
- 63-558. Advanced Health Assessment and Diagnosis II (4.5 credit hours)
- 63-562. Therapeutics in Primary Health Care II (4.5 credit hours)

Summer

- 63-595. Integrative Practicum (12 credit hours)

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NURSING

GRADUATE DIPLOMA IN ADVANCED PRACTICE ONCOLOGY/PALLIATIVE CARE

Graduate Diploma in Advanced Practice Oncology/Palliative Care (*Admissions to program suspended as of Fall 2017*)

The Graduate Diploma in Oncology/Palliative Care is designed for health care professionals who desire a series of courses to facilitate the clinical and psychosocial care of oncology/palliative clients.

Admission Requirements

- 1) All general regulations of the Faculty of Graduate Studies admission requirements are applicable.
- 2) Completed BScN or health-related 4 year honours degree. Preference will be given to those who have completed or are currently enrolled in a Master's or PhD degree program.
- 3) A minimum B standing in all degrees previously obtained.
- 4) Evidence of registration or license in her/his own province/country (for registered nurses only).
- 5) Minimum of two years' experience in healthcare. Preference will be given to those with Oncology/Palliative care experience.
- 6) Current curriculum vitae
- 7) Original post-secondary transcripts
- 8) Three confidential reports must be completed by academic/professional referees, with at least one from an academic who has taught the applicant and one from a recent employment supervisor.
- 9) A narrative statement must be submitted, which will address the candidate's rationale for seeking the graduate diploma.
- 10) Applicants whose native language is not English must submit certification of English proficiency (official TOEFL score or equivalent MELAB).
- 11) Applications for admission must be completed by February 15 (or until seats have been filled).
- 12) Completed Application form and application fee
- 13) An interview may be required.

Required Courses:

- 1) 63-530. Advanced Health Assessment, Diagnostics, and Therapeutics of the Oncology/Palliative Patient (Part I)
- 2) 63-532. Advanced Health Assessment, Diagnostics, and Therapeutics of the Oncology/Palliative Patient (Part 2)
- 3) 63-533. Interprofessional Psychosocial Oncology: Introduction to Theory and Practice (one course)
- 4) 63-531. Leadership and Management in Oncology/Palliative care settings (one course)
- 5) 63-534. Advanced End of Life Care (one course)
- 6) 63-535. Oncology/Palliative Simulation and Practicum with two phases: 1) Simulation; and, 2) Preceptorship

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PHILOSOPHY

THE MASTER OF ARTS DEGREE

General Nature of the Program

The aim of the program is to give students the opportunity to deepen their philosophical understanding both by broadening their undergraduate background and/or by allowing them to concentrate their studies in one of the two specific areas of focus in our program. One area is informal logic, the theory of argument, and the theory of critical thinking; the other area is twentieth-century continental philosophy and critical social theory. It is expected that theses and major papers will be written in one of these two areas. The possibility of concentrating in some other area exists but is conditional upon staffing resources, which are subject to change. The Philosophy M.A. program is structured in such a way as to encourage maximum participation by students in seminars and to allow extensive contact with professors outside of formal class time.

MA in Philosophy

Admission Requirements

See the [admissions section of the Graduate Calendar](#) for general requirements for admission into an M.A. program at the University of Windsor. The Philosophy program normally requires a BA honours in Philosophy or its equivalent for regular admission to the Master's program (M-2 admission level) and a general BA in Philosophy or its equivalent for admission to the qualifying stream of the Master's program (M-1 admission level).

Program Requirements

For general requirements for the Master's degree, see section titled, The Master's Degree - Program Requirements. The following are particular requirements for the M.A. in Philosophy:

1) The student may proceed to the degree in any one of the following ways:

(a) successfully complete eight courses, two of which may be in a cognate field.

(b) with permission, successfully complete six courses, two of which may be in a cognate field, and satisfactorily complete a major research paper on which there shall be an oral examination. To be granted permission to write a major paper, students must satisfy the following criteria: (i) complete at least 4 graduate courses in philosophy, including the Departmental Seminar – 34-590, with a minimum average of 80%; (ii) pass the master's qualifying examination; (iii) secure the sponsorship of an academic supervisor for the proposed research project; (iv) submit to the Graduate Coordinator a research plan that was approved by the academic supervisor.

(c) with permission, successfully complete at least four and not more than six graduate courses (the fifth and sixth courses may be in a cognate field), and satisfactorily complete a thesis on which there shall be an oral examination. To be granted permission to write a thesis, students must satisfy the following criteria: (i) complete at least 4 graduate courses in philosophy, including the Departmental Seminar – 34-590, with a minimum average of 80%; (ii) pass the master's qualifying examination; (iii) secure the sponsorship of an academic supervisor for the proposed research project; (iv) submit to the Graduate Coordinator a research plan that was approved by the academic supervisor.

Note:

i. Students considering doctoral studies should consult with faculty members in the relevant fields to determine the optimal stream, coursework, major paper, or thesis.

ii. Students in stream C must submit to the Graduate Committee an acceptable thesis proposal by the end of their second full-time term.

2) All students proceeding to the degree must:

(a) include the Departmental Seminar (Philosophy 34-590) among their courses for the degree;

(b) pass the master's qualifying examination. Students will be assessed on the content of the Departmental Seminar using a variety of evaluative methods, including written and oral examinations.

3) M.A. Qualifying Year (M-1 admission): Students at the I Master's level are required to take 34-491 (Honours Seminar) (see section titled, [Philosophy Courses](#) in the Undergraduate Calendar).

4) Program Approval: Each student must have his or her projected program approved by the Graduate Coordinator.

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PHYSICS

THE MASTER OF SCIENCE DEGREE

Admission Requirements

The basic qualification for admission consists of a Bachelor's degree with adequate specialization in Physics, obtained with minimum cumulative and major averages of 70%. Students with deficiencies may be required to make up these deficiencies by registering in undergraduate courses or by following a program of supervised reading.

Applicants whose academic credentials are difficult to assess may be required to write the Graduate Record Examination (GRE) administered by the Educational Testing Service. Inquiries should be made at the time of application. Details of the examination may be obtained from the Educational Testing Service, Princeton, New Jersey, U.S.A., 08540.

Degree Requirements

(1) The requirements for the degree of Master of Science may be satisfied by pursuing a program of studies consisting of:
Option (a) at least 4 courses and a thesis; or
Option (b) at least 6 courses and a major paper; or
Option (c) not less than 8 courses.

(2) 64-550 (Advanced Quantum Theory I), 64-510 (Seminar for MSc Students) and at least one further physics course at the 500 level or higher is required of all candidates.

(3) Additional courses needed to fulfill the requirements in (1) above may be chosen from graduate courses in the Department of Physics. Alternatively, candidates may include in their program, with the permission of the Graduate Coordinator and with the approval with the Supervisor,

Option (a): one undergraduate course in physics (at the 400-level), or one course from another Department[†].
Option (b): *either* (i) up to two undergraduate courses in physics (at the 400-level), and one course from another department[†], *or* (ii) up to one undergraduate course in physics (at the 400-level), and two courses from another department[†],

Option (c): up to two undergraduate courses in physics (at the 400-level), and three courses from another department[†].

[†] normally at the 400 level or higher and from the Faculty of Science or the Faculty of Engineering.

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PHYSICS

THE DOCTOR OF PHILOSOPHY DEGREE

Admission Requirements

The basic qualification for admission consists of a Bachelor's degree with adequate specialization in Physics, obtained with minimum cumulative and major averages of 70%. Students with deficiencies may be required to make up these deficiencies by registering in undergraduate courses or by following a program of supervised reading.

Applicants whose academic credentials are difficult to assess may be required to write the Graduate Record Examination (GRE) administered by the Educational Testing Service. Inquiries should be made at the time of application. Details of the examination may be obtained from the Educational Testing Service, Princeton, New Jersey, U.S.A., 08540.

Degree Requirements

Period of Study: A minimum of three years in full-time graduate studies is required. Credit for one of the three years may be given for a Master's degree obtained in Physics at the University of Windsor or for graduate work carried out at another institution. Not more than seven years should elapse between registration and completion of the requirements for the degree; an extension of this period may be granted only on recommendation from the program coordinator and approval by the Faculty of Graduate Studies and Research.

Candidates with a Master's degree in Physics (or equivalent): a minimum of 4 graduate courses:

(1) 64-520: Classical Electrodynamics, 64-550: Advanced Quantum Theory I and 64-551: Advanced Quantum Theory II must be taken, if previous equivalent credit has not been obtained.

(2) At least one course chosen from: (a) 64-630: Statistical Physics I and (b) 64-650: Classical and Quantum Field Theory I is required.

(3) 64-610 (Seminar for PhD Students) will be required of all candidates.

(4) Candidates may include in their program, with the permission of the Graduate Coordinator and with the approval with the Supervisor, other graduate courses in Physics and up to one graduate-level course from another department (normally from the Faculty of Science or the Faculty of Engineering).

(5) The student may be required to take up to two additional courses, as stipulated by the Doctoral Committee.

Candidates who do not have a Master's degree in Physics (or equivalent): a minimum of 7 courses:

(1) 64-520: Classical Electrodynamics, 64-550: Advanced Quantum Theory I and 64-551: Advanced Quantum Theory II, or equivalent, are required.

(2) At least one course chosen from: (a) 64-630: Statistical Physics I and (b) 64-650: Classical and Quantum Field Theory I is required.

(3) 64-610 (Seminar for PhD Students) is required of all candidates. [Note: 64-510 (Seminar for MSc Students) cannot be taken for credit.]

(4) Candidates may include in their program, with the permission of the Graduate Coordinator and with the approval with the Supervisor, other graduate courses in Physics and up to:

(i) one undergraduate course in physics (at the 400-level) or one course from another department[†] (normally at the 400 level or higher), and

(ii) one graduate-level course from another department[†].

[†] normally from the Faculty of Science or the Faculty of Engineering.

(5) The student may be required to take up to two additional courses, as stipulated by the Doctoral Committee.

Doctoral Committee: Within one month after registration each student will be assigned to an advisory committee consisting of a research advisor and two other faculty members in Physics.

This committee will, from time to time, review the student's progress (see the section titled, The Degree of Doctor of Philosophy - Program Requirements).

For the defense of dissertation (final oral examination) the advisory committee will be supplemented by one professor from outside Physics and an external examiner who, as an expert in the field of physics in which the candidate's research is carried out, will appraise the dissertation and ordinarily will also be present at the final oral examination.

Dissertation: In order to qualify for the degree each candidate must present a dissertation embodying the results of an original investigation in a branch of physics. Graduate courses form an important but subsidiary part of the program.

The candidate, when requested, shall submit to the chief advisor from time to time portions of the dissertation and a complete draft on a date specified by the advisor, and place four typewritten copies of the completed dissertation in the hands of the advisor at least six weeks before Convocation. Rules governing binding, quality of paper, etc., of the dissertation can be found in Procedures to Follow in Preparing a Thesis or Dissertation (see the section titled, The Degree of Doctor of Philosophy - The Dissertation).

Examinations: In addition to the examinations in the courses, all candidates must pass qualifying examinations covering

the general field of physics at the level of the honours program given at this university. The examinations must be passed after the completion of the M.Sc. degree, not later than one year after registration as a graduate student proceeding to the Ph.D. Other examinations (written or oral) may be set at the discretion of the program coordinator.

Each candidate will, on recommendation of the advisory committee, submit to a final oral examination in defense of the dissertation.

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POLITICAL SCIENCE

THE MASTER OF ARTS DEGREE

Admission Requirements

The normal requirement for admission to the one-year M.A. program is an honours degree or combined honours degree in Political Science, or an honours degree in a related discipline, such as International Relations, with a 77% average. Honours graduates in fields other than these will be considered on the basis of their academic background and standing. Those with less than a four-year degree, or with minor deficiencies, will be required to take additional courses, or to enter a two-year program.

Program Requirements

Completion of the M.A. degree will follow one of three routes:

A. Major Paper

(1) Successful completion of 45-500 (Scope and Approaches to Political Science).

(2) Successful completion of five further graduate classes (one of which may be taken outside of the department subject to the approval of the graduate chair)

(3) Completion of a major paper. The major paper will be written under the direction of a committee normally composed of two Political Science faculty members. A successful oral defence of the major paper is required.

B. Thesis

1. Successful completion of 02-45-500

2. Successful completion of three further graduate classes (one of which may be taken outside of the department subject to the approval of the graduate chair)

3. Completion of a thesis. The thesis will be written under the direction of a committee composed of two Political Science faculty members plus a member outside Political Science, but from within the University. A successful oral defense of the thesis is required.

C. Internship

(1) Successful completion of 45-500 (Scope and Approaches to Political Science).

(2) Successful completion of five further graduate classes (one of which may be taken outside of the department subject to the approval of the graduate chair)

(3) Successful completion of an Internship (02-45-795), which includes:

One 6 month internship. This is graded on a pass/fail basis.

One 40 page Major Internship Paper (MRP) written on a topic relating to the student's internship placement. This will be graded on a pass/fail basis as with the existing major paper stream.

A poster presentation of the research paper held at a public event marking the culmination of the internship.

After successful completion of three graduate courses, the graduate committee will request applications from students interested in participating in the internship stream (C).

The committee will select the successful students. The Political Science Graduate Committee will evaluate the performance of the remaining students and recommend completion of the degree by route (A) or (B).

All students must successfully complete 02-45-500 in order to complete the degree. Any student securing a failing grade will normally be asked to withdraw from the program.

Additional Information that pertains to all program streams:

All students must successfully complete 45-500 in order to complete the degree.

Any student securing a failing grade will normally be asked to withdraw from the program.

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POLITICAL SCIENCE

UNIVERSITY OF MICHIGAN (DEARBORN) MASTER OF PUBLIC POLICY (MPP) (ARTICULATION AGREEMENT)

The articulation agreement will enable students in the [Political Science Masters program](#) to receive transfer credit for their graduate political science courses towards the University of Michigan (Dearborn campus) Master of Public Policy program.

Students will be admitted separately into the two programs, through a joint admissions committee, but will complete the degrees concurrently.

For additional information, contact the Faculty of Political Science.

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THE DOCTOR OF PHILOSOPHY DEGREE

[The first phase of the doctoral program involves the completion of the Master's degree in the first two years of the program.]

Fields Include:

[MA in Psychology \(Adult Clinical, MA in Child Clinical, MA in Clinical Neuropsychology Fields\)](#) and [PhD in Psychology \(Adult Clinical, PhD in Child Clinical, PhD in Clinical Neuropsychology Fields\)](#)

[MA in Psychology \(Applied Social Psychology\)](#) and [PhD in Psychology \(Applied Social Psychology Field\)](#)

In addition to the general requirements, the following requirements must be met by all students proceeding to the Ph.D. degree.

Admission Requirements

Applicants with a four year undergraduate psychology degree or its equivalent will be considered for admission.

Applicants will be assessed with respect to their academic qualifications including grades, Graduate Record Examination (GRE) scores, letters of recommendation, and career-related achievements. GRE scores (Verbal, Quantitative, Writing) are required of all students seeking admission to the Department of Psychology. In the event that an applicant does not have the required number of undergraduate courses, the GRE Advanced Test in Psychology may be required. Possession of the minimum academic requirements does not ensure acceptance. Applications for admission must be completed by December 1.

Program Requirements

1) *Master's degree*: The first phase of the doctoral program involves the completion of the Master's degree in the first two years of the program, the requirements for which include a thesis. Further advancement in the doctoral program depends on the quality of performance in fulfilling the requirements for the Master's degree.

2) *Course Work*: Students must complete successfully a minimum of twelve graduate courses after the honours B.A. or its equivalent. Requirements vary, however, according to areas of specialization. Up to six courses may be accepted for credit from another university. The course work includes a core curriculum involving a general statistical methodology course, a methodology course in the student's area of specialization, and a course in ethical and professional issues in psychology. All students are required to take at least one course that places considerable emphasis on cultural, cross-cultural, or multicultural issues. All students in the Clinical Program, and students in the Applied Social Program who are planning to become registered psychologists with the College of Psychologists of Ontario, must demonstrate competence in the four core areas of biological bases of behaviour, cognitive bases of behaviour, (or in the case of students in the Applied Social program, cultural bases of behaviour) social bases of behaviour, and the historical and philosophical foundations of psychology. The minimum passing grade in graduate courses is 70%. A student who fails one course may repeat it once at the discretion of the Head of the Department and the Dean of Graduate Studies and Research. The student may not repeat more than one course. If a student has failed two courses, a recommendation will normally be made to the Dean of Graduate Studies and Research that the student be required to withdraw from the program. Together with the above requirements, students must complete an internship. The clinical internship is approximately 2000 hours and the applied social internship is approximately 1000 hours.

3) *Academic Advisor*: Each student is assigned an academic advisor at the beginning of his or her first year of graduate studies.

4) *Doctoral Committee*: Research undertaken as part of a doctoral program is directed by a doctoral committee. The membership of the doctoral committee must be appointed by the Head of the Department and approved by the Executive Committee of the Faculty Council of Graduate Studies and Research. When the student is deemed ready to undertake such research, he or she proposes the name of a research advisor and, in consultation with the proposed advisor, the names of other members of the committee consisting of at least two other members of the Psychology Department and one extra-departmental member of faculty. For the defense of the dissertation, an external examiner will be selected by the doctoral committee, subject to the approval of the Department Head and the Dean of Graduate Studies and Research. The external examiner is from outside of the University of Windsor and is nationally or internationally recognized as having expertise in the area of psychology in which the candidate's research is carried out. The external examiner shall not participate in the direction of the research project, but will appraise the dissertation and ordinarily will be present at the final oral examination (see below, 6).

6) *Examinations*: In addition to examinations in courses, the student must meet the following requirements:

(a) *Comprehensive Examination*: After completion of all course requirements (with the exception of internship courses), the student must pass a comprehensive examination in his or her area of specialization. Successful completion of the examination admits the student to candidacy for the Ph.D. degree. If a student fails the comprehensive examination, he or she may retake the examination once only at the discretion of the Head of the Department and the Dean of Graduate Studies and Research.

(b) *Final Examination*: Each candidate will, on the recommendation of his or her doctoral committee, submit to a final oral examination in defense of the dissertation.

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SOCIAL WORK

THE MASTER OF SOCIAL WORK DEGREE

MSW Admission Requirements

To be considered for admission to any MSW programs, the School of Social Work requires applicants to have a minimum average of 73% or equivalent. Applicants also must have relevant work, volunteer, or practica experience; excellent reference letters; a strong personal statement; and evidence of successful completion of one undergraduate course in statistics and one in research methods both of which must be related to social sciences. If you have not completed one or both of the required courses, the coordinator of the program can provide you with options for accomplishing these if required prior to admission.

Regular Track Full-time M.S.W.

This program is open to students with an Honours degree in a related discipline and takes five (5) consecutive semesters (approximately two years) to complete. It includes a required Foundation Practicum in the first year of study and the completion of an Advanced Practice Internship (API) in the second year of study. The Foundation Practicum and the API may involve travel and/or weekend hours, and students are responsible for transportation to and from their field placement or internship location.

Students are required to complete a total of eleven (11) courses, one of which is a practicum in the Foundation year (first year of study): 47-503, 47-504, 47-523, 47-531, 47-532, 47-533, 47-534, 47-547, 47-550, 47-570, and, 47-571 (Foundation Year Practicum – 6.0 credit hours). Students are required to complete a total of seven (7) courses, one of which is an internship in the second year of study: 47-610, 47-611, 47-621, 47-622, 47-640, 47-680, and 47-681 (Advanced Practice Internship – 6.0 credit hours).

Advanced Standing M.S.W. *

*This program is available to students with a BSW and starts in May of each year in order for students to graduate at June Convocation.

This program takes three (3) consecutive semesters (one year) to complete and includes the completion of an Advanced Practice Internship (API). The API may involve travel and/or weekend hours, and students are responsible for transportation to and from their internship location. Students are required to complete a total of nine (9) courses, one of which is an Internship: 47-523, 47-547, 47-610, 47-611, 47-621, 47-622, 47-640, 47-680, and 47-681 (Advanced Practice Internship – 6.0 credit hours).

Master of Social Work for Working Professionals

Regular Track Full-time MSW for Working Professionals

This program is available to students who are working in a social service delivery position and who hold an Honours degree in a related discipline. This program takes eight (8) consecutive semesters (32 months) to complete and includes a required Foundation Practicum and an Advanced Practice Internship (API). The Foundation Practicum and the API may involve travel and/or weekend hours, and students are responsible for transportation to and from their field placement or internship location.

Students are required to complete a total of eleven (11) courses, one of which is a practicum in the Foundation level of study: 47-503, 47-504, 47-523, 47-531, 47-532, 47-533, 47-534, 47-547, 47-550, 47-570, and 47-571 (Foundation Practicum – 6.0 credit hours). Students are required to complete a total of nine (9) courses, one of which is an internship in the Advanced level of study: 47-610, 47-611, 47-621, 47-622, 47-640, 47-680, and 47-681 (Advanced Practice Internship – 6.0 credit hours).

Advanced Standing Full-time MSW for Working Professionals

This program is available to students who are working in a social service delivery position and who have completed a BSW degree from a Canadian Association for Social Work Education or Council on Social Work Education accredited program. The program takes four consecutive semesters (16 months) to complete and includes the completion of an Advanced Practice Internship (API). The API may involve travel and/or weekend hours, and students are responsible for transportation to and from their internship location.

Students are required to complete a total of nine (9) courses, one of which is an Internship: 47-523, 47-547, 47-610, 47-611, 47-621, 47-622, 47-640, 47-680, and 47-681 (Advanced Practice Internship – 6.0 credit hours).

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SOCIAL WORK

THE DOCTOR OF PHILOSOPHY DEGREE

Admission Requirements:

Admission criteria include the following:

1. Completion of an MSW with a minimum 77% average.
2. A statement of interest demonstrating a commitment to advanced scholarly study in research, teaching and leadership related to civic engagement in Social Work (this includes an identified area of interest and goals for addressing that interest in the Ph.D. program).
3. A curriculum vitae demonstrating experience in Social Work, experience in their field of study, and research experience or potential.
4. A sample of professional or academic writing.
5. Three letters of reference.
6. Applicants will be assessed on the basis of past academic achievement and demonstrated or potential capacity for doctoral level study. Applicants who do not meet the above criteria may be considered for admission with exceptional work experience, circumstances inhibiting performance, or applications deemed strong in most areas with one weak criterion.

Degree Requirements:

The proposed program is designed as a full-time doctoral program. All students complete a minimum of 7 three (3) credit courses during the two-year residency period, the courses are designed to give a full breadth of advanced research and practice knowledge in addition to a focus on pedagogy and leadership. In addition, a comprehensive proposal is due by April 15 of the first year. Once the comprehensive proposal is approved, the student is required to complete the comprehensive paper which is due by August 30 of the first year, and is expected to be reviewed by committee members by September 30th of the second year. The thesis proposal is then due at the end of the second term in the second year.

Courses:

47-720, 47-730, 47-740, 47-741, 47-743, 47-744, 47-795.

Comprehensive Paper

The comprehensive paper will include:

1. an identification of a substantive area of interest;
2. an identification of the lens through which the student approaches the topic;
3. an analysis and critique of the literature addressing the scope, relevance, and severity of the issue;
4. a description and critical analysis of the theoretical frameworks through which this issue has been addressed in the literature; and
5. an analysis and critique of the interventions, and if possible the intervention research, that has been conducted in relation to the substantive area; and
6. an analysis and critique of research studies conducted in this area with a focus on the implications of the research and the effectiveness of the methods used to inform practice and/or policy

The comprehensive proposal must be approved by the student's supervisor. The comprehensive paper must be approved by the student's supervisor and one other faculty member in the School of Social Work who typically will become the second reader on the thesis committee.

Once the comprehensive paper is approved, the student will proceed to Ph.D. candidate status. A supervisory committee must be established within one month after the comprehensive paper is approved. The supervisory committee must include at least three, and no more than five, faculty members who are appointed to the University of Windsor Faculty of Graduate Studies. This includes the supervisor. The committee is required to have one member who is external to the School of Social Work.

Progress reports

After the two-year residency period, all students will be required to demonstrate advancement in the program by completing an annual report to be submitted to the student's supervisor. This report will describe the accomplishments made over the previous year and outline the goals for the upcoming year.

Thesis evaluation procedures

Consistent with the Graduate Studies regulations, the student must successfully defend the thesis at an oral examination presided over by an Examination Committee. The committee consists of at least six members: the supervisory committee; an external member from outside the School of Social Work and within the University of Windsor; an external member outside the University of Windsor; and a representative of the Dean as approved by the Graduate Program Coordinator and the Faculty of Graduate Studies.

Language requirements

Proof of language proficiency is not required if English is the applicant's first language or if the applicant has completed at least two years of advanced full-time study at an accredited university in a country where English is the language of instruction. Where the above criteria are not met, a minimum TOEFL score of 600 (paper based) or 250 (computer based) or YELT score of Band 1 or equivalent will be required.

For more information, contact the School of Social Work.

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SOCIAL WORK AND JURIS DOCTOR (MSW/JD)

The MSW/JD program allows students who are interested in social justice issues at the intersection of law and social work to obtain both degrees a full year sooner than would be possible had they chosen to pursue the degrees independently. Applicants who hold a Bachelor of Social Work (BSW) degree may be able to complete the program in 3 years, while students without a BSW may be able to complete it in 4 years.

Admission Requirements

Applicants to the MSW/JD program must meet the independent admission criteria of the Faculty of Law and the School of Social Work. Once an applicant has met the minimum requirements of the Faculty of Law and the School of Social Work, a joint committee will convene to determine the applicant's suitability for the MSW/JD program.

Program Requirements

Students in the MSW/JD program must successfully complete the independent degree program requirements for the MSW and the JD. For more information, contact the School of Social Work (ext 6096) or the Faculty of Law (ext 2923, 2929).

For more information, contact the School of Social Work (ext 6096) or the Faculty of Law (ext 2923, 2929).

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY & PSYCHOLOGY

THE MASTER OF ARTS DEGREE

MA in Social Data Analysis

(Note: As of Fall 2014 there are no new admissions to this program.)

Private and public sector organizations are in constant need of institutional, market and population research. They regularly encounter data that cannot be easily summarized and put into practice. They require skilled individuals who can analyze information, draw conclusions and suggest practical implications and policies. This one-year, three semester course-based Master's program responds to this growing demand for highly qualified data analysts who can work with complex data sets, draw conclusions and make recommendations for policy.

Program Requirements for MA in Social Data Analysis

Admission Requirements:

- 1) Applicants to the program must hold an Honours Degree in one of social sciences or closely related discipline.
- 2) Minimum major and cumulative averages of 70%.
- 3) At least 2 semester length undergraduate statistics courses with a 77% minimum average in these courses.
- 5) Three reference letters

Degree Requirements:

(a) 46-511, 48-505, 48-507/48-508 (cross listed as 46-507/46-508), 48-794/48-795 (cross listed as 46-794/46-795), and two of 46-512, 46-513 or 48-605.
Students may substitute 46-513 for 48-605.

Program Sequencing:

Students will complete their 6 courses in term 1 and 2 and complete their Final Project (48-794/48-795 cross-listed as 46-794/46-795) during the Spring/Summer semesters.

Fall: 46-511, 48-505, 48-507 (cross listed as 46-507)

Winter: 48-508 (cross listed as 46-508), and two of 46-512, 46-513 or 48-605

IS: 48-794/48-795(cross listed as 46-794/46-795)

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY

THE MASTER OF ARTS DEGREE IN SOCIOLOGY

Admission Requirements

The requirement for admission to the M.A. candidate year of the program is an Honours degree in Sociology or a related field from an accredited university. Applicants without an Honours degree in Sociology or a related discipline may be required to take additional courses. Students transferring into Sociology from a non-related discipline and those with insufficient preparatory background may be required to take additional courses before proceeding into the candidate year.

Applicants will be considered on the basis of:

Obtaining a 77% minimum cumulative average in the final two years of study (full-time equivalent) of the 4-year undergraduate degree.

Strong recommendations based on faculty observation of student's performance, work experience, or community involvement demonstrating clear commitment to and understanding of sociological concerns.

Background preparation and graduate faculty resources that are available in the area of specialization indicated on the application

PROGRAM REQUIREMENTS

SOCIOLOGY MASTER OF ARTS – COURSE OPTION

Successful completion of seven graduate courses within 12 months (3 consecutive semesters):

- 48-600 OR 48-601

- 48-605 OR 48-606

- Three graduate courses which must be selected from 48-602, 48-620, 48-621, 48-625, 48-630, 48-640, 48-650, 48-655, 48-669 and/ or 48-680

- Two graduate level courses from any 48-6xx course *

SOCIOLOGY MASTER OF ARTS – THESIS OPTION

Successful completion of five graduate courses and a Thesis within 24 months (6 consecutive semesters):

- 48-600 OR 48-601

- 48-605 OR 48-616

- Two graduate level courses from any 48-6xx course *

- 48-690 and 48-797 Thesis Proposal and Thesis Oral Defenses

Thesis Stream Progress Requirements:

· Students are required to complete all five courses in two consecutive semesters; 02-48-690 should be taken during the second semester.

· MA thesis students must complete their thesis proposals by the end of Term 3. Proposals must be defended by September 30th of their second year in the program. Students who have not set the date for their thesis proposals by July 1st will automatically be moved into the course stream so they can register for courses in the Fall term.

*One of which may be replaced by a graduate course from another department, subject to the department's approval

Important Program Requirement Details

Students may not take more than three (3) courses in a single term.

Students will proceed towards completing the degree by achieving at least a 77% cumulative average in all courses.

The minimum passing grade in a graduate course is 70%.

Seminar courses require active class participation. Instructors may therefore take into account class participation in grading students, in accordance with Senate regulations.

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Possession of the minimum academic requirements does not ensure acceptance. Applications will be considered on the basis of:</p> <ul style="list-style-type: none"> • Application documents submitted • The availability of faculty to advise, supervise, and provide funding and research training in conjunction with their own research project • The diversity of subject areas represented in the applicant pool • Obtaining a 77% minimum cumulative average in the final two years of study (full- time equivalent)/MA degree <p><i>Degree Requirements</i> Successful completion of five graduate courses plus the Dissertation: 48-602 or 48-601 or 48-600; 48-615 or 48-616 Three graduate courses from any 48-6xx course*</p> <p>48-798 Dissertation Two comprehensive examinations: -A dissertation proposal, which includes an oral defence -A dissertation, which includes an oral defence</p> <p>*One of which may be replaced by a graduate course from another department, subject to the department's approval</p> <p>NOTE: A Ph.D. student who has previously completed a MA in Sociology (or equivalent) may not use previously taken courses (or equivalent) towards their PhD. The five required courses taken during the PhD must be courses they have not taken before.</p> <p><i>Comprehensive Examinations (48-798)</i> After successful completion of all course requirements, the student must demonstrate mastery of two established and distinct fields of sociological inquiry through satisfactory completion of two comprehensive examinations. Students will not be able to move on to the second comprehensive exam until the first comprehensive exam has been successfully completed. Students failing a comprehensive examination after a second attempt will be required to withdraw from the program. The required PhD comprehensive examinations consist of exams in two distinct fields in the discipline of Sociology. The student will complete one thematic area based comprehensive and one dissertation lead substantive area comprehensive.</p> <p><i>Dissertation Proposal with Oral Defence (48-798)</i> After successful completion of the comprehensive examination requirements, the student moves on to the dissertation proposal. The dissertation proposal should be a concise document of no more than 20 pages that discusses: the central research topic of the dissertation; the significance and advancement research literature; the theoretical framework guiding the research; proposed research methods; a plan and schedule for completion of the dissertation; the feasibility of the research project; and ethical issues raised by the research.</p> <p><i>Dissertation with Oral Defence (48-798)</i> After successful completion of the dissertation proposal requirements, the student continues on with the dissertation. The dissertation is normally a book- length manuscript that makes an original contribution to knowledge. The dissertation should display a sophisticated awareness of the theoretical, methodological, and practical choices made during the research process and the implications of the research.</p> <p><i>Important Program Requirement Details</i> Students may not take more than three (3) courses in a single term. Students will proceed towards completing the degree by achieving at least a 77% cumulative average in all courses. The minimum passing grade in a graduate course is 70%. Seminar courses require active class participation. Instructors may therefore take into account class participation in grading students, in accordance with Senate regulations.</p>
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SCHOOL OF CREATIVE ARTS

THE MASTER OF FINE ARTS DEGREE IN VISUAL ARTS

The program provides two years of advanced education and creative development in the student's chosen areas of research. The program functions to stress studio production and the exploration of ideas and technical skills within a critical framework. Areas of research within the MFA program are Painting/Drawing, Sculpture, Printmaking, and Integrated Media (Video, Sound, Photography and Digital Arts). Students with a BFA. degree from the University of Windsor are encouraged to seek their Master's degree elsewhere.

Admission Requirements

1) In addition to the requirements set forth in the section titled, Application Process and the section titled, The Master's Degree - Admission Requirements, for admission to the Faculty of Graduate Studies and Research, applicants for admission to the Master of Fine Arts program must satisfy the following particular requirements:

- (a) have an honours B.A. with a major in Visual Arts or Bachelor of Fine Arts degree from an approved college or university; an applicant with a general B.A. with a major in Visual Arts may be admitted with the stipulation that deficiencies will be made up;
- (b) present twenty slides of recent work for evaluation by the departmental graduate acceptance committee;
- (c) have attained at least a 70% cumulative average in undergraduate art courses;
- (d) have six courses in art history;
- (e) present transcripts of all university and/or college-level work;
- (f) present three letters of recommendation.

2) An applicant who has graduated from a recognized professional institution may be required to apply for entry into a special program prerequisite to admission into the M.F.A. program.

3) Students who are deficient in any of these requirements may be asked to register in appropriate undergraduate courses in order to satisfy the requirements.

4) Applications for admission to the Master of Fine Arts program should be complete by February 10 for Fall admission; applications received after that date may not be considered.

Degree Requirements

1) Ten courses are required:

- (a) four courses in Studio Practice (27-561, 27-562, 27-563, 27-564);
- (b) 28-660: Contemporary Issues;
- (c) 28:600: Directed Individual Studies Studies;
- (d) Graduate Seminars (27-596, 27-597, 27-598, 27-599);
- (e) Early in the second term of their first year, students must participate in a first year MFA. group exhibition. This exhibition will be evaluated by faculty members to determine the advisability of a student continuing in the program.

2) *Thesis (27-797)*: The thesis will consist of an exhibition of a body of original creative works within the candidate's area of research. The thesis will be planned with, and executed under the direction of the candidate's principal faculty advisor. This final exhibition should be regarded as the equivalent of the scholarly thesis of an academic discipline.

3) *Committees*:

(a) *Guidance Committee*: Each student will choose a guidance committee, approved by the Visual Arts Graduate Program Committee, at the beginning of the second term of his or her Master's program. This committee will meet with the student periodically throughout the time required to complete the MFA. program and to assess his/her work and progress through the program.

(b) *Thesis Defence Committee*: This committee will assess the student's thesis exhibition, conduct the oral examination, decide if the MFA. degree should be awarded and determine the thesis grade. The thesis committee will be constituted as follows: a member of the graduate faculty appointed by the Dean of Graduate Studies and Research serving as a non-voting chair, the student's principal advisor and two additional faculty members, one of whom will not have been a member of the student's guidance committee. In addition a professional artist or artist-educator not from the University of Windsor or the Windsor area will be chosen as an external member of the committee. The student will choose the last three members of this committee with the approval of the Visual Arts Graduate Program Committee and subject to the approval of the Executive Committee of the Faculty of Graduate Studies and Research.

4) *Examination and Thesis Requirements*:

- (a) a solo exhibition of the completed creative thesis acceptable to the student's thesis committee;
- (b) a written and photographic documentation of the thesis to be retained by Visual Arts;
- (c) a formal oral defense of the thesis before the student's thesis committee;
- (d) written support document given to each member of the Thesis Committee two weeks prior to the scheduled defense.

5) *Residence Requirements*: The MFA. program will require a minimum of two academic years (four terms). Transfer credits

will be evaluated and may be accepted.

Work on an MFA degree should ordinarily be completed within three consecutive years after a student's enrolment.

VISUAL ARTS: COURSES

VISUAL ARTS: PROGRAM

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BIOLOGICAL SCIENCES

PROGRAMS

[Biological Sciences \(MSc\)](#)

[Biological Sciences \(PhD\)](#)

Students may pursue one of the following fields within the MSc and PhD in Biological Sciences: 1) Molecular/Cellular Biology; 2) Ecology, Evolution, Environment, and Behaviour; and 3) Behaviour and Neuroscience.

BIOLOGICAL SCIENCES: COURSES

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ODETTE SCHOOL OF BUSINESS

PROGRAMS

[Business Administration \(MBA\)](#)

[Business Administration \(MBA\) \(Co-op\)](#)

[Business Administration \(MBA\) \(Fast-track\)](#)

[Business Administration \(MBA\) \(For Managers and Professionals\)](#)

[Business Administration/Bachelor of Laws \(Integrated MBA/JD\)](#)

[Master of Management \(MM\)](#)

[Master of Engineering Management](#) *(This program is offered jointly between the Odette School of Business and the Faculty of Engineering)*

ODETTE SCHOOL OF BUSINESS: [PROGRAM INFORMATION \(MBA\)](#)

ODETTE SCHOOL OF BUSINESS: [COURSES](#)

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CHEMISTRY AND BIOCHEMISTRY

PROGRAMS

[Chemistry and Biochemistry \(MSc\)](#)

[Medical Biotechnology \(MMB\)](#)

[Chemistry and Biochemistry \(PhD\)](#)

Facilities are provided for students wishing to proceed to the degrees of Master of Science and Doctor of Philosophy in Chemistry and Biochemistry. Additional requirements may be found in the [Chemistry and Biochemistry Graduate Handbook](#).

CHEMISTRY AND BIOCHEMISTRY: COURSES

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CIVIL AND ENVIRONMENTAL ENGINEERING

PROGRAMS

[Civil Engineering \(MAsc\)](#)

[Civil Engineering \(MEng\) \(with/without Co-op/Internship Option\)](#)

[Civil Engineering \(PhD\)](#)

[Environmental Engineering \(MAsc\)](#)

[Environmental Engineering \(MEng\) \(with/without Co-op/Internship Option\)](#)

[Environmental Engineering \(PhD\)](#)

CIVIL ENGINEERING

In the Civil Engineering program, research focuses on structural engineering (ACM, structural dynamics, fatigue damage assessment, steel, concrete technology, soil mechanics, and foundations) and water resources (hydraulics, hydrology, and hydrogeology).

ENVIRONMENTAL ENGINEERING

In the Environmental Engineering program, research focuses on air and water quality and modeling, wastewater and industrial waste treatment, and ground water contamination.

CIVIL AND ENVIRONMENTAL ENGINEERING: COURSES

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COMMUNICATION, MEDIA, AND FILM

PROGRAM

Communication and Social Justice (MA)

COMMUNICATION, MEDIA, AND FILM: COURSES

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COMPUTER SCIENCE

PROGRAMS

Applied Computing (MAC)

Computer Science (MSc) (with and without Co-op)

Computer Science (PhD)

COMPUTER SCIENCE: COURSES

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SCHOOL OF CREATIVE ARTS

PROGRAM

Film and Media Arts (MFA)

Visual Arts (MFA)

VISUAL ARTS: COURSES

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EARTH AND ENVIRONMENTAL SCIENCES

PROGRAMS

[Earth Sciences \(MSc\)](#)

[Earth Sciences \(PhD\)](#)

EARTH AND ENVIRONMENTAL SCIENCES: COURSES

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ECONOMICS

PROGRAM

Economics (MA)

Applied Economics and Policy (MAEP)

ECONOMICS: COURSES

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FACULTY OF EDUCATION

PROGRAMS

Education (MEd)

Education (MEd - International Cohort)

Educational Studies (PhD)

EDUCATION: COURSES

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ELECTRICAL AND COMPUTER ENGINEERING

PROGRAMS

[Electrical Engineering \(MAsc\)](#)

[Electrical and Computer Engineering \(MEng\) \(with/without Co-op/Internship Option\)](#)

[Electrical Engineering \(PhD\)](#)

ELECTRICAL ENGINEERING AREAS OF SPECIALIZATION

Research is carried out in the broadly defined area of Signals and Systems. Within the area of Signals and Systems such research topics as digital signal processing, microsystems, communications and computers are investigated.

ELECTRICAL AND COMPUTER ENGINEERING: [COURSES](#)

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ENGLISH LANGUAGE, LITERATURE AND CREATIVE WRITING

PROGRAMS

English (MA)

ENGLISH LANGUAGE, LITERATURE AND CREATIVE WRITING: COURSES

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FACULTY OF SCIENCE

GREAT LAKES INSTITUTE FOR ENVIRONMENTAL RESEARCH (GLIER) PROGRAMS

Environmental Science (MSc)

Environmental Science (PhD)

ENVIRONMENTAL SCIENCE: COURSES

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HISTORY

PROGRAM

History (MA)

HISTORY: COURSES

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**FACULTY OF HUMAN KINETICS
(KINESIOLOGY)**

PROGRAM

Human Kinetics (MHK)

Kinesiology (PhD)

KINESIOLOGY: COURSES

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MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING

PROGRAMS

[Engineering Materials \(MASC\)](#)

[Engineering Materials \(MEng\)](#)

[Engineering Materials \(PhD\)](#)

[Industrial Engineering \(MASC\)](#)

[Industrial Engineering \(MEng\) \(with/without Co-op Internship/Option\)](#)

[Industrial and Manufacturing Systems Engineering \(PhD\) \(Multi-Disciplinary Program\)](#)

[Mechanical Engineering \(MASC\)](#)

[Mechanical Engineering \(MEng\) \(with/without Co-op/Internship Option\)](#)

[Mechanical Engineering \(PhD\)](#)

[Automotive Engineering \(MASC/Laurea Magistrale\) \(International Masters in Automotive Engineering with Politecnico di Torino \(Dual Degree Program\)\)](#)

MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING AREAS OF SPECIALIZATION

ENGINEERING MATERIALS

Ph.D., M.A.Sc. and M.Eng. graduate programs in Engineering Materials are administered by Mechanical, Automotive and Materials Engineering upon the advice of its Graduate Studies Committee for Engineering Materials. Research is concentrated on the physical, mechanical, tribological, chemical and processing aspects of materials. The program hosts one NSERC/ Industrial Research Chair: i) Chair in Tribology of Light-weight Materials. Particular research topics include:

Material Design, Development: Aluminum alloys (wrought, cast, particulate, reinforced), structure refinement, nanocrystalline alloys, solidification and precipitation processing, metal hydrides for energy applications, ceramics and cementitious materials, metallic forms, materials for batteries and fuel cells, smart materials, computational materials science.

Material Processing: Surface coatings, surface modification technologies (PVD, CVD, thermal spraying) welding, machining, galvanizing and galvannealing of steels, steel fabrication, nanofabrication.

Mechanical Properties of Materials: Creep and fatigue behaviour, deformation mechanisms, computer simulation of deformation, corrosion, erosion, impact testing, crashworthiness evaluation.

Light Metals Casting Technology: Advanced foundry processes for lightweight castings for automotive engines; aluminum and magnesium alloys; new generation foundry materials, solidification modelling, die casting process control.

Tribology (Wear) Research: Friction and wear of metal matrix composites, coatings for tribological applications, development of wear resistant materials for automotive applications, micromechanical modeling of tribological processes.

INDUSTRIAL ENGINEERING

Ph.D., M.A.Sc. and M.Eng. graduate programs in Industrial Engineering are administered by Mechanical, Automotive and Materials Engineering.

MECHANICAL ENGINEERING

Ph.D., M.A.Sc. and M.Eng. graduate programs in Mechanical Engineering are administered by Mechanical, Automotive and Materials Engineering upon the advice of its Graduate Studies Committee for Mechanical Engineering. Ph.D., M.A.Sc. and M.Eng. programs are offered in the fields of Automotive, Machine Dynamics and Design, Thermo-Fluids. Prospective students should note that the **M.Eng. in Mechanical Engineering (Automotive Field)** (with or without co-op/internship) is specifically designed for a cohort of international students, particularly foreign-trained engineers. For other additional information on this program contact the Centre for Executive Education at www.uwindsor.ca/execed.

MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING: COURSES

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NURSING

PROGRAMS

Nursing (PhD)

Nursing (MScN)

Nursing (MN) - Advanced Clinical Practice and Leadership in Nursing Fields

Nursing (MN) - Primary Health Care Nurse Practitioner Field

Graduate Diploma - Advanced Practice Oncology/Palliative Care

Graduate Diploma - Primary Health Care Nurse Practitioner

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NURSING: COURSES

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PHILOSOPHY

PROGRAM

Philosophy (MA)

PHILOSOPHY: COURSES

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PHYSICS

PROGRAMS

Physics (MSc)

Physics (PhD)

PHYSICS: COURSES

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POLITICAL SCIENCE

PROGRAMS

Political Science (MA)

Master of Arts in Political Science and Master of Public Policy Articulation

POLITICAL SCIENCE: COURSES

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PSYCHOLOGY

PROGRAMS

Psychology (PhD and MA)

Social Data Analysis (MA) *(Note: As of Fall 2014 there are no new admissions to this program.)*

PSYCHOLOGY: COURSES

GRADUATE STUDIES FACULTY REGULATIONS

GENERAL INFORMATION

The graduate programs of study are Adult Clinical Psychology, Child Clinical Psychology, Clinical Neuropsychology, and Applied Social Psychology.

All graduate students in Psychology are required to comply with the most recent ethical principles, values, and standards of the Canadian Psychological Association and the American Psychological Association, and with the current standards for research with human subjects adopted by the University of Windsor.

Failure of a student to adhere to the principles, values, and standards defined above will constitute sufficient cause to warrant dismissal from the graduate program in Psychology.

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SOCIAL WORK

PROGRAM

Social Work (PhD)

Social Work (MSW)

Juris Doctor/Master of Social Work (JD/MSW) Joint Program

SOCIAL WORK: COURSES

MSW/JD: COURSES

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY

PROGRAMS

Criminology (MA) *(Thesis Option and Course Option)*

Sociology (MA) *(Thesis Option and Course Option)*

Social Data Analysis (MA) *(Note: As of Fall 2014 there are no new admissions to this program.)*

Sociology with Specialization in Social Justice (PhD)

SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY: COURSES

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(FAHSS) ARGUMENTATION COURSES:

Argumentation Studies

79-500. History and Theories of Argumentation

This course, offered in the Fall term each year, explores the major movements in argumentation theory, beginning with the Ancient Greeks and proceeding through the twentieth century, and part introduction to further research agendas in the field. The course involves in-depth readings and discussions of seminal texts in the field, including such figures as Aristotle, Toulmin, Perelman, Hamblin, Walton, and van Eemeren. There is intensive reading involved, and students will be expected to demonstrate (through discussion and papers) a thorough understanding of this core material. (6.0 credit)

79-501. Advanced Studies in Argumentation

This course, offered in the Winter term each year, will introduce students to different fields of current research in argumentation studies as conducted by members of the faculty. Themes may include 'Feminism and Argumentation', 'Argumentation in Cognitive Science and Artificial Intelligence', 'Advances in Multi-modal Argumentation,' among others. Reading lists will depend on the topics involved each year. (Prerequisite: 14-79-500 History and Theories of Argumentation) (6.0 credit)

79-798. Dissertation Research

Students work with a supervisor and committee to develop and implement an original research investigation, informed by the training in Argumentation Studies provided by the coursework and Qualifying Examination. The results will be embodied in a professionally organized and written dissertation conforming to the requirements outlined in the Graduate Calendar for the Argumentation Studies program and by the Faculty of Graduate Studies. The dissertation is expected to be of the highest quality and suitable for publication (Graded pass/fail). (Prerequisites: 79-500 and 79-501; passing Qualifying Exam.)

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BIOLOGICAL SCIENCES: COURSES

All courses listed will not necessarily be offered each year.

Biological Sciences provides three types of courses, each with a different primary purpose and format.

1) *Fundamentals Courses:* Fundamentals courses cover subject matter that is considered central to a comprehensive knowledge of principles and theories in the department's areas of research emphasis. The scope of these courses extends beyond that provided at the undergraduate level. These courses may entail formal lectures, laboratory instruction and/or directed readings and discussion, but the onus is on the course instructor to ensure that students are exposed to balanced and comprehensive coverage of the range of topics considered to represent the field. Because of their central importance to the Biological Sciences, these courses are offered on a regular, recurring basis.

2) *Special Topics Courses:* Special topics courses provide detailed expertise in theory and/or techniques in areas of researchers' expertise that are especially relevant to students' thesis research. Although no less rigorous than fundamentals courses, these courses may provide greater depth of information over a narrower subject range. The scope of these courses extends beyond that provided at the undergraduate level. These courses may involve a combination of lectures, laboratories, discussion, readings and/or student presentations under the guidance of the instructor. A Special Topics course will have an explicit subtitle indicating the theme of a particular offering. Some Special Topics courses will be offered each year. The themes will vary among years to reflect the expertise of the instructors available and the current needs of the graduate students.

3) *Selected Readings Courses:* The primary goal of the Selected Readings courses is to develop students' skill in objective, critical analysis of scholarly work among individuals with broadly similar research interests and backgrounds. An equally important aspect of these courses is to promote interaction among students and faculty and to help participants become aware of new research across a range of subdisciplines. The role of students in selecting and presenting relevant material is central to these courses.

55-516. Techniques in Molecular Biology

A course designed to introduce the student to a variety of biochemical, cellular, and molecular techniques. This course is composed of a series of topics from which students are required to participate in a minimum of four. The topics include: chromatography, electrophoresis, immunocytochemistry, electron microscopy, cell culture, cloning and nucleic acid analysis, computer-based protein and nucleic acid analysis, and radioisotope methods. Students should consult with their research advisors and supervisory committees in choosing the topics for study. (Prerequisite: consent of instructor.) (2 lecture hours, 4 laboratory hours a week for selected experiments during the year, both terms.) (One term course credit.) (Offered in alternative years.)

55-518. Experimental Design and Analysis in Biological Research

Discussion of philosophical and quantitative approaches used to investigate biological systems, with emphasis on design and implementation of efficient and unbiased experiments. Students will use expertise acquired in lectures and readings to constructively evaluate their own and others' research proposals through round table discussions and individual presentation. (Prerequisite/corequisite: 55-320, or consent of instructor.) (2 discussion hours a week.)

55-520. Selected Readings in the Biological Sciences

Current publications on common themes of potential significance in students' area of study will be chosen for round table oral presentation and discussion. Multiple sections, each with enrollment of 8-12 students will be offered in the fall term of each year as required. This course is intended for graduate students in Biological Sciences only. (2 discussion hours a week.)

55-521. Selected Readings in the Biological Sciences

Current publications on common themes of potential significance in students' area of study will be chosen for round table oral presentation and discussion. Multiple sections, each with enrollment of 8-12 students will be offered in the winter term of each year as required. This course is intended for graduate students in Biological Sciences only. (2 discussion hours a week.)

55-528. Molecular Biology of Growth and Development I

An analysis at the molecular level of the growth and development of prokaryotes, lower eukaryotes, and their plasmids. (Required: consent of instructor.) (2 discussion hours a week.) (Offered in alternate years.)

55-529. Molecular Biology of Growth and Development II

An analysis at the molecular level of the growth and development of plants and animals. (Required: consent of instructor.) (2 discussion hours a week.) (Offered in alternate years.)

55-570. Fundamental Topics in Population and Evolutionary Biology

Major topics may include the evolution of mating systems, population structure and demography, population genetics and life history variation, theory of optimal resource use. (Prerequisite/corequisite: 55-324, or consent of instructor.) (3 lecture/discussion hours a week.) (Offered in alternate years.)

55-581. Fundamental Topics in Community Biology

Major topics include niche and diversity theory, trophic complexity and community stability, assembly of guilds, ecosystem

structure and function, biogeography. (Prerequisite/corequisite: 55-325, or consent of instructor.) (3 lecture/discussion hours a week.) (Offered in alternate years.)

55-601. Special Topics in Molecular and Developmental Biology

This is a regularly offered course covering subjects that reflect current graduate program needs and departmental expertise in specific areas. The course addresses one or more theme subjects in any particular term. Students receive a course credit for each term in which they register for this course provided that a particular theme is not repeated. Where a theme parallels an undergraduate course listing, students may be required to attend some portion of the undergraduate course as a prerequisite or corequisite. Subjects that may be offered as special topics include but are not limited to the following: biology of cell transformation; electron microscopy; genetic engineering and its applications; advanced topics in immunochemistry; advanced topics in microbial physiology and ecology; advanced topics in physiology; plant hormones and development; virology. (Prerequisite: consent of instructor.) (2-3 discussion hours and/or up to 5 laboratory hours a week.)

55-602. Special Topics in Population and Environmental Biology

This is a regularly offered course covering subjects that reflect current graduate program needs and departmental expertise in specific areas. The course addresses one or more theme subjects in any particular term. Students receive a course credit for each term in which they register for this course provided that a particular theme is not repeated. Where a theme parallels an undergraduate course listing, students may be required to attend some portion of the undergraduate course as a prerequisite or corequisite. Subjects that may be offered as special topics include but are not limited to the following: animal behaviour; advanced topics in aquatic ecology; biogeography, conservation biology, ecotoxicology, quantitative ecology. (Prerequisite: consent of instructor.) (2-3 discussion hours and/or up to 5 laboratory hours a week.)

55-603. Special Topics in Biological Sciences I

Special Topics in the Biological Sciences courses may be used to introduce a new graduate offering, typically on a "trial" basis. Approved courses taken at Wayne State University or elsewhere, or courses offered by visiting professors may also fall into the category of Special Topics in the Biological Sciences. A limited number of these courses may be included in the program of graduate student.

55-604. Special Topics in Biological Sciences II

Special Topics in the Biological Sciences courses may be used to introduce a new graduate offering, typically on a "trial" basis. Approved courses taken at Wayne State University or elsewhere, or courses offered by visiting professors may also fall into the category of Special Topics in the Biological Sciences. A limited number of these courses may be included in the program of a graduate student.

55-797. Thesis Research

An original research project embodied into a concisely written thesis which conforms to the style and format of a recognized journal in the field of specialization. The student should register for this course during each term (including Summer) of residency at the University; however, this course may not be used for credit toward fulfilling the course requirements in the Master's program.

55-798. Dissertation Research

An original research investigation the results of which will be embodied in a concisely written dissertation conforming in style and format to a recognized journal in the field of specialization. The final paper should be of the highest quality possible and suitable for publication. The doctoral student should register for this course commencing the summer term of the first year of residency and subsequently for each term during which dissertation research will be carried out. In no case, however, may this course be used for credit toward fulfilling the course requirements in the Ph.D. program.

BEHAVIOUR AND NEUROSCIENCE XFFIELD

55-501. BCN Training Course

This short, intensive course examines specialized topics in Behaviour, Cognition and Neuroscience through collaborative presentations with leaders in the field. Students are required to understand the background of the specialized topic, and to participate in colloquia and laboratory experiments with visiting BCN scientists.

55-505. Sensory Ecology

This seminar/lecture course will examine interconnections between sensory biology and ecology as they relate to the evolution of signal reception. Special emphasis is placed on a comparative approach to understanding sensory neurobiology and the current state of the field of sensory ecology. (*Note: It is recommended that students taking this course have completed Principle Neuroscience (55-258) or equivalent.*)

55-510. Behavior and Physiology of Fishes

The goal of this course is to increase one's understanding of current research in the behaviour and physiology in fishes by synthesizing and evaluating current literature, leading class discussions, assessing presentations of others and by preparing a review paper based on research ideas presented in the course. (Prerequisite: Any two of the following undergraduate courses or their equivalents from other universities: 55-204, 55-210, 55-425 or 55-440.)

55-557. Comparative Cognition

Evidence of general and specialized cognitive processes in human and non-human organisms will be investigated. Topics to be covered include perception, attention, and memory, concept formation, ecological and evolutionary bases of cognitive processes. Current research on these and other topics will be reviewed and discussed in a seminar format. (Prerequisite: Any two of the following undergraduate courses or their equivalents from other universities: 46-353, 46-358 or 46-335.) (Also offered as 46-557; Cross-listed with 46-457.)

55-605. Advanced Behavioural Neurobiology

In depth case analyses will be conducted to show how animals have developed neural mechanisms to solve behavioral problems encountered in their specific environmental niches. Topics will cover sensory processes, motor strategies, and plastic changes of behavior. General principles in behavioral neurobiology will be discussed after examination of individual cases. Important research methods in behavioral neurobiology will also be introduced. (Co-requisite: 55-483.) (*Note: It is recommended that students taking this course have completed Principle Neuroscience (55-258) or equivalent.*)

55-610. Advanced Topics in Neurophysiology

This course emphasizes synaptic organization of the brain. It examines how physical stimuli are converted by neurons into sensations and how movement is controlled through integrative neuronal action. The mechanisms of learning and memory will be discussed at the neuronal and molecular levels. Important experimental approaches in contemporary neurophysiology will also be introduced. (*Note: It is recommended that students taking this course have completed Principle Neuroscience (55-258) or equivalent.*)

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ODETTE SCHOOL OF BUSINESS: COURSES

Courses below are listed according to the internal administrative units of the Odette School of Business. All courses listed will not necessarily be offered in a particular term or year. Special permission to enter courses without the stated prerequisites must be arranged with the Dean and the instructor involved.

ACCOUNTING (70-)

70-601. Advanced Topics in Financial Reporting

This course will advance the students knowledge in a number of topic areas of accounting including: Financial Statement Reporting, Accounting Policies and Transactions Analysis, Financial Report Preparation, Financial Statement Analysis, Audit and Assurance, Treasury and Risk Management, Financial Analysis/Corporate Finance, Corporate and Personal Tax. (Prerequisites: 70-457, 70-458, 70-459).

70-602. Advanced topics in Management Accounting

This course will advance the student's knowledge of how to apply forecasting and evaluation techniques and recommend improvements to operations, strategy, policy and assurance. Recommendations based on analysis of facts will also comply with existing regulatory and legal frameworks. (Prerequisites are 70-457 and 70-459)

70-603. Performance Management

This course develops students' ability to mobilize knowledge from various subject areas such as strategy, governance, risk management, management accounting and control to analyze, evaluate and improve overall organizational performance. This course will facilitate the development of technical and enabling skills required to prepare students for the changing role of professional accountants in organizations who are both strategic and financial leaders. (Co-requisite: 70-604 and is mandatory for those seeking a CPA for non-public accounting.

70-604. Advanced Corporate Finance

This course develops students' ability to mobilize knowledge from various subject areas such as strategy, governance, risk management, management accounting and control to analyze, evaluate and improve overall organizational performance. This course will facilitate the development of technical and enabling skills required to prepare students for the changing role of professional accountants in organizations who are both strategic and financial leaders. (Co-requisite: 70-603 and is mandatory for those seeking a Chartered Professional Accountant (CPA) for non-public accounting.

70-605. Advanced Audit and Assurance

This course equips Chartered Professional Accountant (CPA) candidates with the competencies necessary to perform both internal audit projects and external assurance engagements. (Co-requisite: 70-360.)

70-606. Taxation III

The course concentrates on advanced income tax topics, including income tax planning for individuals and corporations and income tax research. The use of partnerships and trusts in tax planning and the corporate reorganization provisions of the Income Tax Act are studied. Tax research is conducted using the Income Tax Act, tax treaties and court cases. (Co-requisite: 70-461 and mandatory for those seeking a Chartered Professional Accountant (CPA) for non-public accounting.

70-607. Integration and Team Building

This course further develops students' strategic leadership capabilities, problem solving, written and oral communication skills, ethical and professional behaviours, self-management and teamwork capabilities. Students are required to work in teams to analyze a complex business case and to present their findings to a panel of faculty members acting as senior executive managers / Board members. This course will prepare Chartered Professional Accountant (CPA) candidates for the Common Final Exam (CFE).

70-608. Integrative Case Analysis

This course prepares students for the final examination, the Common Final Exam (CFE). The complex and highly integrative cases, simulating real-life business issues will train students to draw on technical and enabling competencies acquired in previous courses to formulate a well-structured response within the allotted time.

70-650. Managerial Accounting and Analysis

Examines approaches to generating, analyzing and using accounting information in performing managerial functions such as planning, controlling, performance evaluation and decision making.

70-651. Reporting, Analyzing, and Using Accounting Information

Examines alternative approaches to generating, analyzing and using accounting information. It will emphasize the understanding and the application phases of accounting information by users. Topics include: Accounting entity-concepts of control and significant influence; accounting policy choice; internal control; elements in the consolidated financial statements, such as owners' equity, minority (non-controlling) interest and goodwill; profitability, liquidity and solvency analyses; working capital management; and business valuation.

70-659. Special Topics in Accounting

A reading and research seminar which deals with major concepts and important current problems in Accounting. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be

announced in the previous term.

MANAGEMENT AND LABOUR STUDIES (71)

71-600. Business Ethics and Sustainability

Students will critically examine existing structures, organizations, society, and perhaps, most importantly, themselves to see if these represent a means to freedom or domination, liberation or oppression, or some combination of both. Students will study the connection between our dominant paradigm of wealth maximization, social inequality, and environmental degradation. Through the use of experiential learning the course provides an opportunity for students to plan and implement informed and responsible action to improve current global systems within which business is conducted.

71-613. Leadership and Organizational Change

Provides an analytical framework to understand organizational transformation through (a) leadership and vision building, (b) strategic human resources planning (c) restructuring and redesigning and (d) organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

71-643. International Management

Focuses on the problems and issues that confront managers in the area of international business. Background materials, cases, and exercises will involve the students in the challenges facing the international manager. A major objective is to develop a sensitivity that will enhance the student's ability to operate in the complex environment of multicultural businesses.

71-646. Business Negotiation and Problem Solving

Highlights the role of effective negotiation for resolving conflict and sharing resources and power in complex organizations. Students will be exposed to various styles of negotiating, problem solving and bargaining strategies as well as communication approaches aimed at enhancing organizational performance.

71-647. Managing Diversity in Workplace

Addresses the dynamics of increasing diversity of the work force and the major challenges faced by organizations and their managers such as maintaining fairness and justice, making effective decisions for performance improvement, allowing flexibility and managing diversity in the global environment. The course also analyzes the legal frameworks in place which value and protect employee and employer rights related to gender, race, age, religion, sexual orientation, ability, and other dimensions of diversity.

71-648. Topics in Management and Labour Studies

A reading and research seminar which deals with major concepts and important current problems in the areas covered by Management and Labour Studies. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be announced in the previous term.

FINANCE (72-)

72-670. Investment Analysis and Management

Economic background to security analysis; types of corporate securities for investment; theory and mechanics of investment; general analysis and valuation procedures; valuation of fixed income securities and common stocks; procedures in analysis of government, industrial, financial and public utility securities; and portfolio management.

72-671. Portfolio Management

Objectives of individual and institutional portfolios. Security selection, diversification, marketability, risk and return in portfolio construction. Timing and formula plans, bond portfolio problems, performance measurement, trading problems, tax planning, supervision, quantitative techniques for portfolio management, and regulations.

72-672. Cases in Financial Management

An advanced case course in financial management. Financial concepts and principles of managing a business enterprise are illustrated. Planning for the acquisition and use of funds so as to maximize the value of the business is examined through the use of case analysis.

72-673. Topics in Finance

An in-depth study of topical issues in finance. A reading and research seminar dealing with major concepts and problems in the area of financial management. Precise topics to be covered during a term will vary according to current trends in the literature.

72-674. International Financial Management

A study of the problems facing the international financial manager. Topics include: international markets, spot and forward currency fluctuations, positioning corporate funds, investment decisions, hedging and exposure management.

MANAGEMENT SCIENCE (73-)

73-602. Special topics in Management Science

A reading and research seminar which deals with major concepts and important current problems in the areas of management science, operations management, or management information systems. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be announced in the previous term.

73-603. Management Science Models

Study of spreadsheet-based practical quantitative decision-making models relevant to major functional areas of business.

Topics include linear and non-linear programming models, network models, and simulation models for problems involving uncertainty.

73-604. Operations Management

Study of relevant topics recognized as important factors for successful management of business operations. Topics include: processes and their measurement in manufacturing and services, forecasting, aggregate planning, inventory management, quality control, and supply chain management.

73-606. Strategic Implementation for Technologies Management

Strategic management of technology and innovation in established firms. The overall course objectives are to help students gain competence in (1) understanding the basic framework for the relationships among a business strategy, an information systems strategy and an organizational strategy; (2) developing an awareness of the range, scope and complexity of the issues and problems related to the strategic management of technology and innovation; (3) developing a conceptual framework for assessing and auditing the innovative capabilities of a business organization and (4) developing insight concerning the skills necessary to be effective in managing the innovation process. The course will use SAP, an enterprise resource planning software, as a simulation tool to explore the strategic use of information systems in a large organization.

MARKETING (74-)

74-631. Consumer Behaviour

A study of analytical concepts and research techniques derived from the behavioural sciences or developed from consumer behaviour research. A significant objective of the course is the application of such concepts and techniques to the solution of marketing problems.

74-632. Marketing Research

An advanced course assuming familiarity with the conceptual research process, characteristics of basic data collection modes and measurement, hypothesis testing, regression analysis, and analysis of variance. Utilizing a discussion format, the course offers a review of current marketing research literature concerning: 1) examination of properties of familiar data collection and analysis techniques; 2) examples of their application; and 3) introduction to more advanced data collection and analysis methods.

74-635. International Marketing Strategy

A study of the problems faced by Canadian businesses when exploring and distributing to foreign markets. A significant objective of the course is to explore, through research findings, strategies that would improve Canada's international marketing efforts.

74-638. Special Topics in Marketing

This course is of varying content dealing with topical issues in marketing. The course might focus on a specific functional area in marketing or a particular environment for the application of marketing concepts. Administration of the course varies as appropriate with its content and might take on a literature survey, research project, experiential, or other format.

74-639. Marketing Strategy and Planning

An analysis of the formation of marketing strategies and plans. Topics covered will include business definitions, developing marketing objectives, selecting market targets, developing all aspects of the marketing mix, and evaluating marketing performance. Marketing decision models, portfolio techniques, generic strategies, PIMS, and related topics will also be covered.

BUSINESS STRATEGY AND ENTREPRENEURSHIP (75-)

75-611. Project Management I

Students will examine approaches to project management and apply project management principles to projects with industry partners. Project planning strategies for project implementation will be discussed relative to industry sectors. Problem solving, market research, critical thinking skills based on scientific inquiry in business will provide students with an understanding of project management competencies. Students will develop project management skills in their project teams with industry partners.

75-612. Project Management II

The course provides students with experience solving project management issues for industry partners in real time. Students complete project management tasks for projects focused on the mature stages of the industry/product life cycle, such as management of legacy products and services. The team will construct detailed project plans, including a critical appraisal of relevant literature on the issues which arise in the industry projects. The students will construct viable solutions to address issues arising in the project plan. The students will present their findings to the industry partner and the class.

75-680. Managing the International Enterprise

This survey course gives students a basic understanding of the international business environment and of the decisions that managers make in international firms. The course begins by considering the historical development of international business and the current global focus of international firms. It then examines the international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location. Finally, the course briefly examines the functional decisions made in international firms-financial, marketing, operational, human resources-and issues associated with international structure and control.

75-682. Manufacturing Strategy

Examines the use of manufacturing and operations as weapons in the firm's competitive arsenal. It addresses strategic

questions related to the choice of proper process technology, the determination of plant size and location, the extent of vertical integration and the continuous pursuit of quality and productivity.

75-690. Entrepreneurship Formation and Management

This course examines entrepreneurship as an economic and a business phenomenon with special emphasis on the process of new venture creation. Through a mix of seminars, case studies, and field research, students explore the topics of finding new venture ideas, developing business ideas and business concepts, conducting feasibility studies, developing business plans, preparing deal structures and financing strategies, launching new ventures, and initial entrepreneurial management beyond the start-up phase. Students are expected to undertake a new venture creation project culminating with a detailed business plan..

75-692. Special Topics in Strategy and Entrepreneurship

This course involves an investigation and discussion of contemporary issues in strategic management and entrepreneurship. The topics to be covered will vary from term to term according to current developments in the business world.

75-696. Enterprise Development Consulting

Students will perform business consulting and market research for local organizations, giving them opportunities to network while applying skills and knowledge learned in the classroom to real life business situations. Semester-long projects covering different business areas are performed in small supervised teams. Weekly class time is a round-table discussion format used for collaboration of ideas and strategy with the rest of the class. Students will be evaluated on participation along with formal reports and presentations regarding the projects. Highly motivated students from a variety of business-related disciplines will make-up the consulting team. (Prerequisites: Approval of instructor.) (Open to Semester 7 and above students only).

75-698. Strategic Management

This capstone course integrates the knowledge gained in prior courses and focuses it on the functions of top management of an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment. (Prerequisites: candidate-year standing and all other required courses.)

BUSINESS COURSES (76-)

76-501. Interpersonal Dynamics

This course provides students with the behavioural skills to be effective in organizations. Active listening, conflict resolution and running effective meetings, will be taught with a great deal of emphasis on the practice of these skills. The framework for this module will be the team environment, which many successful companies are moving toward. This module will help students prepare for the teamwork which will be required by all the concurrent modules.s.

76-502. Core Concepts of Accounting I

An introduction to the role and importance of accounting information in the decision-making process and how to use and interpret various types of accounting information found in financial statements and annual reports. Core concepts of financial accounting will be examined, including the determination of income and the recognition, measurement and reporting of assets, liabilities, and owners' equity. The impact of ethical, regulatory and environmental aspects on the interpretation and application of accounting information will be considered.

76-503. Introduction to Financial Management

This course introduces the concepts and principles of financial management of the business enterprise within the global financial environment. After an introduction to domestic and international financial markets and instruments, the module covers the concepts of value, risk, and efficient markets followed by an introduction to capital budgeting, financial analysis and planning, and short-term financial management.

76-504. Quantitative Techniques in Management

Provides students with a basic but solid background in the quantitative techniques used by successful business organizations. This module will focus on the important aspects of probability and statistics as they relate to the effective presentation of data and to decision-making under uncertainty; and on the use of mathematical modelling as it relates to problem-solving within an organization.

76-505. Marketing Management

This course introduces appropriate marketing management concepts and techniques that can be applied to private sector business as well as to not-for-profit organizations' marketing and communication activities. Emphasis will be on the marketing mix elements of product, price, place, and promotion.

76-506. Managing Employees

Familiarise students with the knowledge, roles, responsibilities and skills required of today's managers. Three approaches will be examined: systems, process, and behavioural. The contingency view of management as the process of organising resources to set and accomplish organizational goals will be emphasized.

76-510. Core Concepts of Accounting II

This is a continuation of 76-502. This course further examines the use and interpretation of accounting information within the context of business and business decision-making. It will explore some of the ways in which accounting information may be utilized for business planning and to solve common business management problems. Core concepts of managerial accounting such as financial statement analysis, tax considerations, cost-volume-profit analysis, budgeting, cost allocation, job order and process costing will be covered. As with 76-502, the impact of ethical, regulatory, and environmental aspects

on the interpretation and application of accounting information will be considered.

76-511. Research Methodology

This course provides students with a broad understanding of methodological issues in research with a specific focus on marketing. Students will develop an understanding of research issues and processes from a business discipline perspective through classroom lectures as well as a hands-on, practical research project. Both quantitative and qualitative methods of research will be discussed.

76-512. Financial Management

This course examines the firm's long-term financial decisions. It focuses on the sources and the mechanics of obtaining long-term financing, together with a discussion of strategic decisions involving capital structure and dividends. The module includes a broader study of financial markets and instruments, including options, with applications in financial management.

76-513. Human Resources Management

The course introduces the role of human resources activities in facilitating the achievement of organizational effectiveness. Students will examine the principles of human resources management and develop some skills they can apply in solving actual people problems at work. Particular attention is given to the roles of labour relations and trade unionism as they pertain to human resources activities. Students will be provided with exposure to both a management and labour perspectives to human resources issues.

76-514. Management Information Systems

Students will learn how to envision, design and evaluate computer-based solutions to typical business problems. The emphasis will be on the contemporary and emerging hardware/software tools, the managing of information, and information technology.

76-530. Applied Finance

The course covers the fundamental principles of financial management of business enterprises within the global financial environment. It also includes introduction to financial analysis, planning and models with applications for new ventures and corporations. There will also be specific focus on the entrepreneurial process, start-up finance, venture math, business valuation methods and new venture fundraising techniques. (Anti-requisites: 76-503 and 76-512)

76-531. Financial and Managerial Accounting

It is designed to provide engineers with a robust understanding of the core concepts and procedures of financial and management accounting which engineers need to enhance their capabilities as informed future managers and decision makers. It concentrates on financial reporting and interpretation to internal and external stakeholders of the organization. Issues of income determination, asset and liability recognition, measurement and reporting will be addressed. It also offers an introduction to management's use of internal accounting information for planning, managing, controlling and evaluation of business operations. Topics include cost concepts (including activity based costing), budgeting, cost-volume-profit analysis, standard costing, performance evaluation and product pricing. (Anti-requisites: 76-502 and 76-512)

76-540. Engineering Management Capstone

This is a jointly instructed and administered course between the Faculty of Engineering and the Odette School of Business. The course is the last course students take in the Masters of Engineering Management program and has mandatory prerequisites. The goal is to allow students to practice all business and management theory they learned in previous courses by completing one of: 1) an engineering management report 2) an engineering feasibility study, or 3) a new venture business plan. This course is entirely project-based. (Prerequisites: All 6 mandatory core courses within the MEM program) (2 semester, 6.0 credit course) (Cross-listed with Engineering 85-540)

76-610. Business Law

This course examines common law principles and statutes affecting the business administrator's decision-making process.

76-646. Dynamics of Business Negotiations

The course examines the role of effective negotiation for resolving conflict and sharing resources and power in complex organizations. Students will be exposed to various styles of negotiating, problem solving and bargaining strategies as well as communication approaches aimed at enhancing organizational performance.

76-660. Management Skills Development

This course is designed to provide students with the management skills required for providing feedback, dealing with problem employees, coaching, and problem-solving. It is a practical course with ample opportunity for students to practice the skills in different settings and receive feedback on their performance. (Required for, and open only to, Fast Track students)

76-661. Directed Study

Under faculty supervision, students undertake an in-depth, individualized program of study to pursue a topic of relevance to business and to develop, apply, and integrate the knowledge acquired in the program.

76-662. Advanced Business Agreements

This intensive seminar course provides learning experiences at the intersection of law and business. Through readings, mini lectures, and analysis of business agreements, students prepare for participation in class discussions to engage in active and collaborative learning. Discussions focus on real business agreements used as case studies to enhance experiential, interdisciplinary learning, where the diversity of the course learning community provides multiple perspectives to unpack different agreements.

76-673. Special Topics in Business

This course explores and applies theory to contemporary business issues. (Prerequisite: A minimum required grade of 80% and a minimum cumulative average of 75%.)

76-701. MBA Co-op Work Term I

76-702. MBA Co-op Work Term II

76-711. Fast-Track M.B.A Co-op Work Term

76-796. Major Paper (weight: 2 courses)

76-797. Thesis (weight: 4 courses)

BUSINESS COURSES (77-)

77-514. Management Information Systems

Learn how to envision, design and evaluate computer-based solutions to typical business problems. Emphasis will be on the contemporary and emerging hardware/software tools, the managing of information, and information technology.

77-606. Strategic Implementation for Technologies Management

Strategic management of technology and innovation in established firms. The overall course objectives are to help students gain competence in (1) understanding the basic framework for the relationships among a business strategy, an information systems strategy and an organizational strategy; (2) developing an awareness of the range, scope and complexity of the issues and problems related to the strategic management of technology and innovation; (3) developing a conceptual framework for assessing and auditing the innovative capabilities of a business organization and (4) developing insight concerning the skills necessary to be effective in managing the innovation process.

77-613. Leadership and Organizational Change

Provides an analytical framework to understand organizational transformation through (a) leadership and vision building, (b) strategic human resources planning (c) restructuring and redesigning and (d) organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

77-646. Business Negotiation and Problem Solving

Highlights the role of effective negotiation for resolving conflict and sharing resources and power in complex organizations. Students will be exposed to various styles of negotiating, problem solving and bargaining strategies as well as communication approaches aimed at enhancing organizational performance

77-651. Reporting, Analyzing, and Using Accounting Information

Examines alternative approaches to generating, analyzing and using accounting information. It will emphasize the understanding and the application phases of accounting information by users. Topics include: Accounting entity concepts of control and significant influence; accounting policy choice; internal control; elements in the consolidated financial statements, such as owners' equity, minority (non-controlling) interest and goodwill; profitability, liquidity and solvency analyses; working capital management; and business valuation.

77-672. Maximizing the Value of the Organization

An advanced case course in financial management. Financial concepts and principles of managing a business enterprise are illustrated. Planning for the acquisition and use of funds so as to maximize the value of the firm is examined through the use of case analysis.

77-680. Managing in the International Arena

Focuses on the problems and issues that confront managers in the area of international business. The course examines the international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location. A major objective is to develop a sensitivity that will enhance the student's ability to operate in the complex environment of international business.

77-690. Entrepreneurship: New Venture Formation and Management

Aiming at developing entrepreneurial thinking in students, this course examines entre- and intrapreneurship as an economic and a business phenomenon with special emphasis on the process of new venture creation. Students explore the topics of finding new venture ideas, developing business ideas and business concepts, conducting feasibility studies, developing business plans, preparing deal structures and financing strategies, launching new ventures, initial entrepreneurial management beyond the start-up phase and the successful development of such initiatives within a corporate environment.

77-698. Strategic Management

This is the capstone course of the M.B.A. program. It integrates the knowledge gained in prior courses and focuses it on the functions of top management of an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment.

MASTER OF MANAGEMENT (78-)

78-600. Business Communications

Building on an understanding of the communication process and barriers to communication, students will develop, through this course, the sensitivity and flexibility required to address the needs of different audiences. Throughout the course, practical skill building for leaders is stressed, and time is devoted to communication concepts and techniques, case studies outlining issues faced by communicators in organizations, and planning and organizing ideas for business writing and presenting. Through lectures, interactive class discussions, role play, individual and group presentations, as well as two written cases and a self-reflective paper, students emerge with the realization that becoming a highly effective communicator is a learned, active process, as well as a necessary and powerful skill base of any leader. (Co-requisites: 78-611 and 78-638.)

78-611. Accounting Concepts and Techniques

An examination of the core concepts of financial accounting, which includes the determination of income and the recognition, measurement and reporting of assets, liabilities, and owners' equity. Different methods of the utilization of accounting information for business planning and management problem solving will be explored. Core concepts of financial and managerial accounting such as financial statement analysis, tax considerations, cost-volume-profit analysis, budgeting, cost allocation, job order and process costing will be covered. The impact of ethical, regulatory, and environmental aspects on the interpretation and application of accounting information will be considered.

78-612. Finance in a Global Perspective

A study of concepts and principles of financial management of the business enterprise within the global financial environment. Emphasis will be placed on the contemporary and emerging hardware/software tools, information management, and information technology. Following an introduction of domestic and international financial markets and instruments, the concepts of value, risk, and efficient markets will be covered. Capital budgeting, financial analysis and planning, and short-term financial management will also be introduced. With these concepts in hand, the student will learn how to envision, design, and evaluate computer-based solutions for typical business problems.

78-613. Managing Employees

An analysis of the knowledge, roles, responsibilities, and skills required of today's managers. Three approaches will be examined: systems, process, and behavioural. An emphasis will be placed on the contingency view of management with respect to the process of organizing human resources to set and accomplish organizational goals.

78-614. Marketing

An introduction of marketing management concepts and techniques that can be applied to private sector business as well as to not-for-profit organizations' marketing and communication activities. Emphasis will be placed on the marketing mix elements of product, price, place, and promotion.

78-631. International Business

A survey course providing a discussion of the international business environment and the decisions made by managers in international firms. Historical development of international business and the current global focus of international firms will be considered. The international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions, and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location will be examined. Finally, the functional decisions made in international firms – financial, marketing, operational, human resources – and issues associated with international structure and control will be briefly examined.

78-632. Quantitative Studies

A focus on the important aspects of probability and statistics as they relate to the effective presentation of data and to decision making under uncertainty, and on the use of mathematical modelling as it relates to problem solving within an organization. A solid background in the quantitative techniques used by successful business organizations will be provided.

78-633. Introduction to Business Logistics Management

A discussion of major issues relating to distribution activities at a micro and macro level. The development of channel systems and the behavioural and legal aspects of channel relationships will be reviewed. Distribution systems will also be discussed and will include such topics as management transportation, inventory management, warehousing, materials handling, and customer order processing.

78-634. Leadership and Organizational Change

An exploration of an analytical framework to understand organizational transformation through leadership and vision building, strategic human resources planning, restructuring and redesigning, and organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

78-635. Purchasing and Procurement

A discussion of effective purchasing techniques and strategies to lower total costs and increase quality within the organization. The course will focus on developing, implementing, and using purchasing systems and policies that support the acquisition of materials. Quality assurance, sourcing of supplies, and inventory management will be included.

78-636. International Financial Reporting

An exploration of the international environment of financial reporting. Particular emphasis is placed on International Accounting and Financial Reporting Standards. The preparation and presentation of financial statements, including such matters as accounting for tax, foreign currency transactions, and interim financial reporting will be reviewed.

78-637. International Financial Management

A study of the problems encountered by an international financial manager. Topics to be discussed include: international

markets, spot and forward currency fluctuations, positioning corporate funds, investment decisions, hedging, and exposure management.

78-638. Human Resources Management

A study of the role of human resources activities in facilitating the achievement of organizational effectiveness. Exposure to both management and labour perspectives with regards to human resources issues will be provided by this course. Particular attention will be placed on the roles of labour relations and trade unionism as they pertain to human resources activities. Students will gain an understanding of the principles of human resources management and develop the skills required to solve people problems in the workplace.

78-651. Business Strategy

This is the capstone course of the Master of Management program. It integrates the knowledge gained in prior courses and focuses this knowledge on the functions of top management in an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment.

78-652. Marketing Strategy and Planning

An analysis of the formation of marketing strategies and marketing plans. Topics to be covered will include business definitions, developing marketing objectives, selecting market targets, developing all aspects of the marketing mix, and evaluating marketing performance. Marketing decision models, portfolio techniques, generic strategies, PIMS, and related topics will also be covered.

78-653. Manufacturing Strategy

An analysis of the use of manufacturing and operations as weapons in the firm's competitive arsenal. Strategic questions related to the choice of proper process technology, the determination of plant size and location, the extent of vertical integration, and the continuous pursuit of quality and productivity will be addressed.

78-654. Manufacturing Globalization (*Manufacturing stream capstone*)

The impact of international trade and of global technology, production, marketing, and social changes on the past development and future prospects of the manufacturing sector will be examined in this special seminar course.

78-655. Domestic Transportation and International Shipping

A study of the regulatory, economic, and management aspects of transportation. The needs and interests of the carriers, governments, and the shipping industry will also be studied. An evaluation of carrier alternatives for both passengers and the cargo in terms of their relative advantages and disadvantages will be discussed.

78-656. Quantitative Analysis for Logistics and Supply Chain Management

An introduction to the use of quantitative approaches in decision-making. Linear programming (model formulation and applications, computer solution, sensitivity analysis, and interpretation), transportation models, project management, PERT/CPM, and inventory control will be among the topics discussed.

78-657. Supply Chain Management (*Logistics and Supply Chain Management stream capstone*)

A special seminar course designed as a capstone for the Logistics and Supply Chain Management stream. An integrative perspective of supply chain strategy, supply chain finance, supply chain information systems, product design, relationship building and ERP will be provided.

78-661. Consolidated Financial Statements

An in-depth review of such matters as definitions of subsidiaries, associates, and joint ventures; equity accounting; exclusions from consolidations; and the preparation, presentation, and analysis of consolidated balance sheets and income statements.

78-662. Accounting Systems Control and Auditing

An exploration, from an international perspective, of accounting systems control and auditing. The framework and regulation of controls and audits, planning and risk, internal controls, audit evidence, group audits and reporting will be covered.

78-663. Corporate Governance (*International Accounting and Finance stream capstone*)

An analysis of matters of corporate governance and managerial responsibility to the organization's stakeholders with special reference to the regulatory framework, business ethics, and the consequences of failures in governance.

78-665. International Management

Focus is placed on the problems and issues that confront managers in the area of international business. A major objective will be to develop a sensitivity that will enhance the student's ability to operate in the complex environment of multi-cultural business. Background materials, cases, and exercises will involve the students in the challenges facing the international manager.

78-666. Managing for High Performance

An examination of the preparation needed to manage the unexpected in a time of organizational turbulence and change. Primary focus will be placed on the organization's approaches required to develop their staff and their structures so they can meet challenges with flexibility rather than rigidity.

78-667. Current Human Resource Trends (*Human Resources Management stream capstone*)

A reading and research seminar that examines major concepts and important current problems in international Human Resources Management. Issues such as executive and management compensation, implementation of international labour standards in developing societies, development of an effective workforce, and dealing with outsourcing of corporate

activities will be covered.

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COMMUNICATION, MEDIA, AND FILM: COURSES

40-500. Pro-Seminar

An introduction to themes of social justice and the common good; media and democratic communication. The course will also facilitate the development of intellectual skills and include an exploration of procedures and requirements relevant to graduate study and intellectual life. Students will produce proposals and literature reviews for their major research paper or thesis projects.

40-501. Critical Theories of Communication

A review of critical theories of communication in the context of social justice themes. Key topic areas include theories of commodification, ideology, cultural production and representation, art and politics, communication and democracy, information, and globalization.

40-502. Graduate Research Methods

This course provides an overview and applications of a range of contemporary research methods in communication studies. Both qualitative and quantitative approaches will be examined in this course, but the course may focus primarily on one or the other type of approach to communication research.

40-512. Communication and Social Movements

Examines the use of traditional and non-traditional forms of communication that have been used within, and by, a variety of social movements and social formations. The course draws upon a combination of new social movement theory and critical media and cultural studies. Areas of focus will include the following: an assessment of (i) the contribution of new communication technologies to social activism and social movements; (ii) the representations of social movements in the context of political/economic/social change; (iii) the diversity and importance of alternative media as a central component of movements for social justice.

40-513. History of Communication Thought and Technology

Examines the evolution of media technology from perspectives of dependency theory, political economy, and critical cultural studies. Communication thought from the Greeks to the present, with emphasis on Canadian and U.S. Communication thought and international communication from the perspective of social justice and the common good will be analyzed.

40-514. Political Economy of Communication

The course examines the historical roots of critical political economy in relation to media and communication studies and explores contemporary applications of, and current issues in, the political economy of communication. Students will read a series of books and documentary materials which help to bring to light the role played by mass media in power relations and the social construction of reality. The texts will be examined from the perspective of critical political economists (such as Noam Chomsky).

40-515. Media Representation and Reception

Any range of media modes and texts, such as documentary, experimental film, music-video, feature films, television, and the emerging digital formats, may be examined in terms of their aesthetics, poetics, history, and cultural politics. Theoretical approaches to representational analysis and/or audience reception will be presented for critical reflection.

40-518. City as Media

The seminar will explore theoretical approaches to the ways in which urban spaces, everyday life, and city stories are articulated and imagined through media, arts and technologies. Seminar participants will develop research papers and experience-based creative projects about Windsor and/or Detroit. Students will examine films, stories, sounds and other media objects that reflect the urban, but will also be encouraged to develop research methodologies that use old and new media to question and document the cities' urban and suburban life. In classroom seminars, a range of theoretical writings and media objects all oriented to the urban will be discussed. In research practice, students will work with techniques such as auto-ethnographies to develop creative documents around everyday urban life. (3 hour lecture.)

40-520. Directed Study

Normally reserved for students not writing a thesis. With approval of the graduate program director, a student may undertake to write an original paper on a specialized topic which will enhance his or her program of study. The course will involve directed supervision of readings and informal discussion with the student's course supervisor.

40-543. Advanced Film Theory and Criticism

Films are explored under the broad rubric of cultural studies; specific theoretical approaches employed to analyze cinema are examined. Case studies of genres as the emergent effective mode of understanding films are taken up. Films selected may belong to the silent or classical period to the contemporary. The readings provide tools to analyze formal aspects and critical interpretative frameworks applied to examine films. Writing assignments forge links between the written and the visual and between theory and film texts. (3 hrs/week: once a month, class will be extended due to in-class film screening.)

40-590. Selected Topics

Selected advanced topics in Communication Studies based on special faculty interests and opportunities afforded by the availability of visiting professors. Special topics courses are subject to Graduate Committee approval. (May be repeated for credit provided that the topics differ.) (3 lecture hours a week.)

40-796. Major Paper

(Credit Weight: 9.0)

40-797. Thesis

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CHEMISTRY AND BIOCHEMISTRY: COURSES

All of the courses listed will not necessarily be offered in any one year. Topics courses may be taken several times provided the course content is different. Where prerequisites are not stated, consent of the instructor is required.

Click here for [Master of Medical Biotechnology courses](#).

59-521. Special Topics in Analytical Chemistry
(Prerequisite: 59-321.) (2 lecture hours a week.)

59-531. Special Topics In Organic Chemistry

Topics may include polymer chemistry, natural product chemistry, physical organic chemistry, or design and execution of organic syntheses. (Prerequisite: 59-331 or consent of instructor.) (2 lecture hours a week.)

59-532. Dyes and Pigments - Design, Synthesis, and Properties

This course describes essential design criteria for organic dyes and pigments and common synthetic strategies for their preparation. Also covered are basic structure-property relations regarding their absorption and emission properties. This is an advanced organic chemistry course and requires a good understanding of intermediate organic chemistry and spectroscopic techniques. Prerequisite: Consent of instructor.(Cross-listed with 59-432)

59-535. Advanced Organic Chemistry

Physical organic chemistry. Includes molecular orbital theory, stereochemistry, thermodynamics, and reaction mechanisms. (Prerequisite: consent of instructor.) (2 lecture hours a week.)

59-541. Statistical Thermodynamics

A detailed picture of the current status of advanced experimental and theoretical research in modern reaction dynamics. Subjects to be discussed include transition state spectroscopy, coincidence imaging techniques, ion imaging applied to the study of chemical dynamics, nonlinear reaction dynamics in both stirred and reaction-diffusion media, theoretical dynamics treatment of chemical reactions. (2 lecture hours a week.)

59-542. Nuclear Magnetic Resonance Spectroscopy

Theory and applications of NMR in chemical problems, including the origin of the NMR phenomenon, Fourier transforms and spectral processing, spectrometer hardware, pulse sequences, NMR interactions, relaxation and chemical exchange, double-resonance experiments and two-dimensional NMR. (2 lecture hours a week.)

59-545. Special Topics in Physical Chemistry

(2 lecture hours a week.)

59-546. Advanced Topics in Spectroscopy

Electronic and vibrational spectroscopy of gases, liquids, and solids. Theory and practice of infrared and Raman spectroscopy. Theory and applications of electron spin resonance spectroscopy. (2 lecture hours a week.)

59-550. Special Topics in Inorganic Chemistry

A variety of subjects in inorganic chemistry are covered at the discretion of the instructor. The subjects covered may include: main group chemistry, transition metal chemistry, organometallic chemistry, inorganic materials, and group theory. (3 lecture hours a week.)

59-552. Topics in Inorganic Chemistry and Organometallic Chemistry

Topics to be arranged by the instructor, based primarily upon new developments in the field as illustrated by the current research interests of the faculty, as well as by a study of the current literature. (2 lecture hours a week.)

59-553. X-ray Crystallography

Theoretical and experimental aspects of single crystal X-ray diffraction methods for the determination of molecular structures. (2 lecture hours a week.)

59-564. Advanced DNA Science

An advanced lecture and seminar course dealing with DNA science. The lectures cover the biochemistry of DNA and RNA at the molecular levels, the current research topics and their implications for the future research. The course also contains a seminar component in which a number of selected topics will be discussed and presented by and among participants. (Prerequisites: 59-468 or equivalent, or consent of instructor.) (2 lecture hours a week.)

59-565. Membrane Biochemistry

The structure and function of artificial and natural membranes. Special consideration will be given to the identification and function of membrane proteins. (Prerequisites: 59-360 and 59-361 or 59-362 and 59-363, or equivalent.) (2 lecture hours a week.)

59-570. Advanced Quantum Chemistry

Perturbation and variation theories. Theories of many electron atoms and general theories of chemical bonds in diatomic and polyatomic molecules. (Prerequisite: 59-341 or equivalent.) (3 lecture hours a week.)

59-573. Self Organization by Molecular Design

Self-organization is a ubiquitous phenomenon in nature (e.g., cell membranes, vesicles, and iridescent surfaces) and technology (e.g., block-copolymers, liquid crystals, and surfactants). This course will provide a basic understanding of the driving forces for self-organization and how the formation of specific self-organized structures (e.g., layers, micelles, tubes, columns, and cubic arrangements) can be programmed into molecules by rational design. The course will also provide an introduction to variable temperature polarized optical microscopy, thermal analysis (DSC and TGA), and variable temperature powder X-ray diffraction as important characterization techniques for these materials. (Prerequisite: 59-230 or equivalent.) (Also offered as 59-473.)

59-575. Organic Nanomaterials

This course examines the fundamental concepts, preparation strategies and properties of organic/carbon-rich nanomaterials at the nanoscale, and their applications in various areas of modern chemistry (materials, electronics, pharmaceutical, medicine, etc.). A special emphasis is also put on methods and techniques utilized in materials science to characterize organic nanostructures. (Prerequisite for students in graduate course: 59-331 and 59-351) (Crosslisted with 59-475)

59-581. Analytical Toxicology

Analysis of drugs and other toxic substances in biological fluids. The metabolism of drugs as well as the symptomology of poisoning of common therapeutic drugs and the more common industrial chemicals will be discussed. (Prerequisites: 59-360 and 59-361 or 59-362 and 59-363, or consent of instructor.) (2 lecture hours a week.)

59-600. Directed Special Studies

A special course of studies with content and direction approved by the student's research advisor and supervisory committee. Although there may be no formal lecture requirements, the course will be equivalent to three one-hour lectures a week for one term. The student will be required (a) to produce a critical review which will be assessed by his or her supervisory committee; the presentation and standard of the review must be appropriate for publication in a scientific journal; (b) to spend one term working in an agreed industrial setting; the quality of work will be assessed by the supervisory committee. This work may be related to but not part of the research undertaken in 59-797 or 59-798. (Prerequisite: approval of the Program Committee.)

The course cannot be repeated for credit under (a) above. Under normal circumstances, M.Sc. students may take this course only once; Ph.D. students may register under (b) above for two terms of this industrial experience.

59-620. Analytical Spectroscopy of Surfaces

Surface spectroscopic techniques and their application to the analysis of chemisorbed and physisorbed species and monomolecular layers. (Prerequisite: 59-321 or equivalent.) (2 lecture hours a week.)

59-630. Synthetic Methods in Organic Chemistry

A study of some important organic reactions with emphasis on their practical application in synthesis. (Prerequisites: 59-330 and 59-331, or consent of instructor.) (2 lecture hours a week.)

59-631. Advanced Topics in Organic Syntheses

The design, execution, and methodology of total syntheses of complex molecules will be discussed. Emphasis will be placed on both retrosynthetic pathways and execution. (Prerequisites: 59-330 and 59-331, or consent of instructor.) (2 lecture hours a week.)

59-633. Current Topics in Organic Chemistry

Topics to be arranged by the instructor, based primarily upon new developments in the field as illustrated by the current research interests of the faculty, as well as by a study of the current literature. (Prerequisites: 59-331 or consent of instructor.) (2 lecture hours a week.)

59-634. Advanced Topics in Organic Chemistry

Special topics in organic chemistry will be described. Some of these may include natural product chemistry, organometallic chemistry or heterocyclic chemistry. (Prerequisite: consent of instructor.) (2 lecture hours a week.)

59-636. Advanced Topics in Organic Materials Chemistry

Synthetic approaches as well as physical properties of organic materials such as conducting structures, liquid crystals, dyes, and light emitters are covered. An in-depth understanding of structure-property relationships is the main goal.

59-651. Organometallic Chemistry

A detailed study of selected advanced topics in organometallic chemistry. Typical subjects include (at the discretion of the instructors) main group organometallic chemistry; thermochemical methods in organometallic chemistry; catalysis by organometallics; detailed structural studies. (2 or 3 lecture hours a week.)

59-653. Advanced Topics in Organometallic Chemistry

Topics to be arranged by the instructor, based primarily upon new developments in the field as illustrated by the current research interests of the faculty, as well as by a study of the current literature. (2 lecture hours a week.)

59-655. Selected Topics in Inorganic Chemistry

The chemistry and properties of inorganic materials. Typical topics include: methods of synthesis, methods of characterization, and applications of inorganic materials. (2 lecture hours a week.)

59-660. Protein Chemistry I

Protein chemistry; chemical modification, protein folding, post-translational modification, lipoproteins, and glycoproteins. (Prerequisite: 59-365 or equivalent.) (2 lecture hours a week.)

59-661. Protein Chemistry II

Biophysical chemistry; advanced kinetic techniques, pre-steady state, perturbation based methods, review of instrumentation, and examples of how these techniques are currently used to solve biochemical problems. (Prerequisite: 59-660.) (2 lecture hours a week.)

59-663. Special Topics in Biochemistry

(Prerequisites: 59-360 and 59-361, or 59-362 and 59-363, or equivalent.) (2 lecture hours a week.)

59-671. Special Topics in Theoretical Chemistry

Topics to be selected by registrants but will generally be molecular orbital calculations for organic and inorganic chemists. (2 lecture hours a week.)

59-680. Strategic Management of Biotech Innovations

The course will provide an overview of the principles underlying the strategic management of innovation with a focus on the biotechnology sector. Topics will include: (i) Sources, types and patterns of innovation (ii) Timing of entry and approaches to improve timing options, (iii) Budget allocation for sustainable R&D projects, (iv) Collaboration strategies, (v) Ways to protect innovations, (vi) Managing new product development teams and (vii) Strategic launching of new products. The course will emphasize concepts and strategies necessary to the development of managerial skills and the appropriate knowledge to identify, evaluate, and manage new biotechnology-based innovations. (Enrolment restricted to MMB students.)

59-684. Cell Death and Diseases

A detailed biochemical study of physiological (apoptosis) and pathological (necrotic) cell death in mammalian systems. Role of physiological cell death (apoptosis) during development and tissue homeostasis, immune system and cancer. Various inducers of cell death and mechanism of apoptotic cell death. Role of cell death in disease development: viral infections, stroke, and neurodegenerative disorders, oxidative stress, cell death and aging, Therapeutic opportunities: identification of new targets for drug development based on the biochemistry of cell death. Developing new therapeutic approaches e.g. combinatorial treatment for systemic diseases, new vaccine approaches and gene therapy. (2 lecture hours per week.)

59-686. Advanced Bioanalytical Topics

(Prerequisite: 59-360 or 59-362, or equivalent.) (2 lecture hours a week.)

59-710. The Research Proposal

This course focuses on the development and presentation of a research proposal, as well as the cultivation of a wide base of knowledge of the chemical and biochemical literature. Techniques of research proposal composition, with particular reference to subject area, budgetary considerations, and written and oral presentation techniques will be discussed. The student will be required to develop and defend his or her own research proposal in chemistry and/or biochemistry. The subject of this proposal must not be from the research work undertaken for the Ph.D. thesis. A written proposal will be submitted to the student's advisory committee and will be followed by an oral presentation and defense of the proposal. The advisory committee will evaluate the originality, the significance, the clarity of the written and oral presentation, and the student's knowledge of the area in the defense. (Prerequisite: registration in the Ph.D. program. The oral presentation and proposal defense will take place during the term of registration.)

59-795. Seminar

59-797. Master's Thesis

59-798. Doctoral Dissertation

MASTER OF MEDICAL BIOTECHNOLOGY (MMB) - COURSES

59-670. Protein Structure and Function

This course will review and examine the principles of protein structure and how it applies to protein function. Moreover, how protein function is controlled and functional genomics will also be considered. Methodologies used in protein structure determination including mass spectrometry and its applications will also be highlighted. The laboratory section of the course will focus on web based computational programs as they apply to protein structure and function. (Enrolment restricted to MMB students.)

59-672. Proteomics and Biological Mass Spectrometry

This course will focus on the theory and applications of biological mass spectrometry with particular emphasis on its use in proteome platforms. The most common types of ionization methods and mass analyzers will be thoroughly presented including data interpretation. A major part of the course will cover the applications of this technique in identifying multi-protein complexes, mapping post-translational modifications, and quantitative proteomics. Finally, various techniques that are commonly interfaced with the mass spectrometer will be introduced in order to emphasize proper sample preparation and stimulate discussion on applying mass spectrometry to graduate student's own projects. (Enrolment restricted to MMB students.)

59-673. Drugs: From Discovery to Market

This course will introduce students to the relevant concepts and applications of organic synthesis and chemical characterization that lead to the discovery and rational design of therapeutic agents. In addition, the course will cover the fundamentals of the clinical trials process and best regulatory practise's in pharmaceutical industries. (Enrolment restricted to MMB students.)

59-674. Clinical Biochemistry

Clinical Biochemistry is concerned with the analysis and testing of bodily fluids and tissues. This field is fundamental to patient care and contributes significantly to the diagnosis, treatment, monitoring and prognosis of disease processes. This course is designed to introduce students to the field by covering areas including quality control in clinical testing, automation, clinical enzymology and biomarker discovery. In addition, the course will focus on the design, testing and commercialization of specific clinical tests for: liver function, abnormalities in lipid metabolism, diabetes and related metabolic disorders, fertility/reproduction, cancer and therapeutic drug monitoring. Upon completion of the course the students will get a broad exposure of the current state of the technology for the analysis of clinical samples as well as learning the basic principles in design and testing of clinical assays for a wide range of analytes. (Enrolment restricted to MMB students.)

59-675. Biochemistry and Cell Biology of Lipids and Membranes

This course focuses on the biochemistry and cell biology of lipids and their role in cellular signaling, with a particular emphasis on the experimental basis of current knowledge. Topics covered include lipid biochemistry, membrane biophysics, the biochemistry and metabolism of small molecules such as steroids and leukotrienes, and an integrative assessment of the role of lipids and membranes in cellular processes such as protein trafficking and intracellular signaling. (Enrolment restricted to MMB students.)

59-676. Human Physiology and Mechanisms of Disease

This course will cover the field of physiology as it relates to the further understanding, diagnostics, treatment, and human disease-mechanisms of disease. The course is taught from a holistic approach that provides key insights into cellular physiology and associated molecular aspects of biology related to human disease. The course will outline the principles and practice of cell and molecular physiology, pathological pathways, molecular pathogenesis, and molecular mechanisms of disease. It will be followed by investigations and discussion on the practice of molecular medicine and the translational aspects of molecular pathology: molecular diagnostics, molecular assessment, and personalized medicine. Students will be engaged in presentations and discussions of current and future industry trends, medical and research discoveries that are translational by enhancing the identification, diagnosis, and treatment of human diseases. Topics will include: molecular and cellular mechanisms of cancer; inflammation and immunology; cell death and regulation; stem cell and developmental biology; neurobiology; and gene regulation. (Enrolment restricted to MMB students.)

59-677. Biotechnology Laboratory

This intensive laboratory course will primarily simulate the discovery and rapid characterization of genes and gene products (i.e. proteins). Laboratory experiments will include cutting edge biotechnology techniques and traditional biochemical methodology. Students will be introduced to techniques including nucleic acid isolation and amplification (i.e. PCR), regulation of gene expression, cloning, protein isolation and purification, enzyme functional assays and characterization (2-D electrophoresis, mass spectrometry). (Enrolment restricted to MMB students.) (Equivalent to 2 courses.)

59-690. Biotechnology Entrepreneurship

Entrepreneurship in Biotechnology will provide students an introduction to the complexities and unique problems facing the biotechnology industry. Students will be exposed to the topics most critical for successfully founding, financing and operating a life science company, and will be expected to perform many of the same tasks that founders would normally undertake. Discussions with life-science entrepreneurs, evaluation of existing biotechnology firms, case studies based on recent companies and hands-on work developing entrepreneurial endeavors all will be utilized. (Enrolment restricted to MMB students.) (Equivalent to 2 courses.)

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COMPUTER SCIENCE: COURSES

Not all of the courses listed below will necessarily be offered in any one year. A component of certain courses will be offered in conjunction with an advanced undergraduate course; in such cases the undergraduate course work will comprise one half of the graduate course.

All courses are restricted to students enrolled in the Master's II Computer Science program who have all undergraduate qualifying courses and who have approval from the instructor and Computer Science program graduate committee.

Note: Certain courses listed below require more than one term to complete. Unless such courses are officially graded as "In Progress" (IP), regulations for incomplete grades will apply. See Faculty Regulations - Grading and Dropping Courses.

To remove any suggestion that the word "engineering" in the context of courses in Computer Science may be taken to cover the meaning of "engineering" as used in the context of courses in Professional Engineering, it is hereby acknowledged that Software Engineering is a collection of principles, models, methods, and techniques for the development, maintenance, evolution and reuse of software that meets functional, performance and quality requirements in an economic and competitive manner.

60-510. Literature Review and Survey

The purpose of this course is to prepare students for conducting the specific research on which their thesis will be based. Students are required to complete a thorough literature search on the general area in which they intend to conduct research and to undertake extensive supervised reading. Students must submit a comprehensive survey of relevant research, together with an annotated bibliography and references of important papers, theses, books, and conference proceedings. The bibliography should include names and current addresses of scientists working in the student's chosen area.

60-511. Advanced Software Engineering

Development and maintenance of software systems that satisfy their specifications. Topics include integrating informal and formal software design methodologies, software reuse, and software reliability.

60-512. Software Engineering for Distributed Systems

This course introduces to the students both formal and informal techniques used in software specification, verification and testing. The concentration is put on advanced methods and techniques in dealing with large-scale distributed concurrent systems. The aim of the course is to provide graduate students the opportunity of obtaining strong background and skills in developing complex software systems for their future work in industry.

60-513. Topics in Software Engineering

Some advanced selected topics in software engineering will be discussed in this course. Topics include software quality engineering, formal methods in software verification, and reverse engineering of software.

60-515. Middleware and Web Engineering

This course introduces software engineering concepts, principles and techniques in middleware and web-based systems. Selected topics include, but are not limited to: architecture design; web modelling in UML; testing techniques in web applications; software monitoring with CORBA interceptors; distributed object systems using CORBA; formal methods in message-oriented middleware.

60-535. Distributed Query Processing

This course will cover topics such as algorithms and techniques for query optimization in distributed databases; methods for evaluating algorithms and experimental procedures. Each student will be required to survey a topic in the area and present a report. Students will also be required to implement algorithms and comparatively evaluate techniques.

60-536. Multimedia Databases

This course focuses on the study of basic and advanced database techniques used to manage multimedia objects in multimedia database systems. Topics covered include: motivation for multimedia databases; fundamental database implementation techniques; characteristics of multimedia applications; multidimensional access structures; image databases; movie databases; further media types such as text and audio; multimedia databases; models and languages; storage techniques; and multimedia presentations.

60-537. Database Management Systems

Current developments in selected aspects of database management. Topics covered may include data models, database languages, database logics, database machines, and transaction management.

60-538. Information Retrieval Systems

Fundamental principles and advanced topics in the design of information retrieval systems. Theoretical as well as practical aspects will be discussed.

60-539. Emerging Non-traditional Database Systems

Course focuses on the study of one or more advanced, new and non-traditional database system(s) like data warehousing and mining, video database systems, mobile database systems, and distributed object-oriented database systems. Topics discussed include system architecture, components, features, implementation, applications and research issues. Both theoretical and practical contributions to further improve the system under study remain part of the course objective.

60-540. Foundations of Programming Languages

Current developments in the theory and practice of programming language design and implementation. Various languages will be considered and may include imperative, applicative, logic, constraint, object-oriented, and equational languages.

60-549. Virtual Reality

This course introduces the fundamental concepts, advanced techniques, and most recent practices of virtual reality research and applications. Topics include: web-based virtual interfaces design, object and behaviour modelling, animation and physical simulation, 3D human-computer interaction, real-time rendering of multi-sensory feedback, and virtual reality tools and applications. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-550. 3D Animation and Data Visualization

Introduction to visualization methods, especially in the context of 3D modeling and 3D animation; 3D geometric modeling, 3D computer animation; forward/inverse kinematics and rigid body dynamic techniques for animation. Students will learn interactive modeling/animation tools and their use to produce motion for animations.

60-551. Visual Processing

This course introduces fundamental aspects of visual processing. Topics include: image formatting, image processing, image acquisition, camera geometry, camera calibration, feature detection, 3D reconstruction, camera motion computation, feature matching, feature tracking, object recognition and vision for robotics.

60-552. Computer Graphics

Current developments in computer graphics. Topics covered will include hardware, software, interfaces, graphics standards, data structures, rendering algorithms, and visualization.

60-554. Advanced Algorithms

Methodology for developing efficient algorithms. Advanced data structures. Intractable computational problems and approximation algorithms.

60-555. Parallel Computation

Introduction to fundamental issues in parallel computation. Basic parallel computing platforms. Models of parallel computation such as shared data and message passing. Data parallel and other abstractions. Cost models and debugging. Programming for performance. Scalability. Workload balancing. Meta-computing in grid environments. Libraries and compilers. Parallel algorithms for numeric and non-numeric problems.

60-556. Parallel Runtime Systems

Introduction to fundamental issues in parallel runtime systems. Thread systems and communication libraries. VSM, I/O and checkpointing. Scheduling and load distribution, synchronization, dynamic memory management, representation. Interface to user and computer architecture. Multiple-strategy systems and configuration. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-557. Computational Geometry and Its Applications

This focus of this course is on the algorithmic issues in geometry and its various applications. Topics include: basic geometric algorithms pertaining to construction of convex hull, Voronoi diagram, triangulations, and other constructions of a point set; construction of the arrangement of a set of lines and its connection with the Voronoi diagram; applications of fundamental algorithms in areas such as computer graphics, robotics and geographical information processing.

60-558. Topics in Bioinformatics

The purpose of this course is to present a representative sample of computational problems in molecular biology, bioinformatics, genomics and proteomics and efficient algorithms to solve them. Topics may include: molecular biology, sequence alignment, genomics database, protein structure protein interaction, phylogenetic analysis, RNA structure, gene regulation, functional genomics, microarrays. Student will be required to investigate selected problems/methods in computational biology and bioinformatics. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-559. Machine Learning and Optimization

Focusing on several central learning problems, this course presents important machine learning techniques, such as supervised, semi-supervised, and unsupervised learning, and probabilistic model building; topics include decision trees, neural networks, Bayesian learning, instance based learning, and reinforcement learning. Optimization topics include: simulated annealing, tabu search or evolutionary algorithms, gradient methods, constraint optimization, ant-colony optimization, and other heuristic search methods. Efficiencies and limitations of each of these will be discussed and the correlation between the different approaches will be highlighted. (Prerequisites – B.Sc. [Hons, Computer Science] or with the permission of the instructor.)

60-560. Advanced Computer Architecture

Current developments in computer architecture covering advanced concepts in sequential and parallel architectures. Topics include memory hierarchy, homogeneous and heterogeneous architectures, shared-memory (SMP and DSM) and distributed-memory machines (Beowulf cluster to high-end parallel machines), dataflow and multi-threaded architectures, ILP and VLIW, pipelining, and vector machines. Systolic arrays and application/language specific architectures. Networks. Programming models for parallel machines. Programming for performance on different architectures.

60-561. Artificial Neural Networks

This course introduces the fundamentals of Artificial Neural Networks. Standard neural network architectures are discussed along with their associated set of learning algorithms. Application classes of neural networks are also presented. Topics include: supervised and unsupervised learning, associative learning, competitive learning, probably approximately correct

learning, adaptive learning, pattern recognition, linear separability, gradient-descent and optimization. Students will be required to investigate selected architectural and/or learning models of some neural networks. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-562. Computational Grid Systems

Introduction to computational grid system goals; issues in requirements acquisition and design, specification and development; computing, networking and institutional infrastructure development; relationship to cluster and super-computing approaches; mechanisms and approaches to account management; grid adaptation of programming model; information service provision and delivery; measurement and analysis of end-to-end performance of parallel and distributed applications; analysis and monitoring tools; issues related to remote access and transparency; resource scheduling and management; and, security issues in authentication, authorization and data integrity. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-564. Security and Privacy on the Internet

This course introduces the issues of security in public distributed networks. Topics include: security planning, policies and procedures, threats and strategies, security services and mechanisms, digital rights; topics in Internet related to security and privacy; secure protocols, DES, AES; public key algorithms; VPN; Internet sniffing and scanning tools; intrusion detection, intrusion analysis and tools; viruses and enterprise anti-virus tools; other applications such as digital cash, code signing and anonymous e-mail.

60-567. Advanced Computer Networks

This course will cover developments in modern communication networks. Topics may include: link-level design issues; network routing; network optimization and resource allocation; wireless networks and mobile IP; ATM technology; switching hardware; optical communications; and fault-tolerant networks.

60-568. Advanced Internet Systems

This course covers the internet design philosophy and its protocols, such as IPv4, IPv6, TCP and RTP/RTCP. Topics include emerging Internet multimedia services, Quality of Service (QoS), scheduling and policing mechanisms, routing, resource reservation, reliable multicast, flow and congestion control, integrated services, differentiated services, and adaptive applications. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-569 Semantic Web

The Semantic Web is an extension of the current world wide web in which information is given well-defined, machine-understandable meaning, thus enabling computers and people to work in cooperation. This course introduces both theoretical and practical aspects in semantic web. Topics will include: languages and representation issues in semantic web; cooperative software agents; web service technology; and information integration theory and practice.

60-570. Introduction to Artificial Intelligence

This course covers fundamental concepts in Artificial Intelligence including problem solving, knowledge representation and reasoning, planning, learning and natural language understanding. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-572. Topics in Artificial Intelligence

Students will study in depth selected fundamental topics in artificial Intelligence. The focus will be on theories, techniques and algorithms. (Prerequisite: 60-570 or permission of the instructor.)

60-573. Natural Language Processing and Understanding

This course covers the basic linguistic, logical and AI approaches to the development of natural language understanding systems. Topics covered include: syntactic/parsing strategies, formal semantics, pragmatics and the resolution of various types of ambiguities. Inference strategies involved in the resolution of ambiguities at the pragmatic level include a detailed discussion of the representation of and reasoning with commonsense knowledge. The course also includes the implementation of natural language interfaces and the application of linguistic approaches to the development of intelligent text retrieval systems. (Prerequisite: 60-570 or permission of the instructor.)

60-574. Pattern Recognition

This course is a general introduction to Pattern Recognition. Topics may include: Bayesian learning and classification, estimation, distance-based classifiers, linear and nonlinear methods, support vector machines, kernels, dimensionality reduction, feature extraction and selection, clustering, classifier evaluation. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-575. Knowledge Representation and Reasoning

This course covers advanced topics in knowledge representation and reasoning including Non-monotonic logic, Temporal and spatial representation and reasoning, Probabilistic approaches, Belief and decision networks, and an overview of the applications of these formalisms to diagnosis, navigation and decision making. (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-576. Advanced Search Methods

This course covers advanced search methods including, for example, gradient-descent family of search methods, hill climbing, simulated annealing, evolutionary search, tabu search, hybrid techniques, adaptive techniques, constraint satisfaction search, forward checking, consistency enforcement and adversarial search (two player games). (Prerequisite: B.Sc. (Hons., Computer Science) or permission of instructor.)

60-579. Topics in Applied Artificial Intelligence

Topics in artificial intelligence focussing on intelligent systems and applications. Topics will be selected from areas such as

intelligent agents, intelligent tutoring systems, knowledge acquisition, intelligent scheduling, embedded intelligence, constraints satisfaction techniques, and knowledge discovery. (Prerequisite: 60-570 or permission of the instructor.)

60-588. Advanced Programming Languages

Current developments in the design, application, and implementation of pure lazy functional programming languages.

60-590. Directed Special Studies

With approval of the graduate program coordinator, a student may undertake to write an original paper on a specialized topic which would enhance his or her program of study. The course will involve directed supervised reading and informal discussion with the graduate supervisor. The work undertaken in fulfilling the requirements for this course will not be counted directly for credit in the evaluation of 60-797 (M.Sc. Thesis).

60-592. Selected Topics

Selected advanced topics in computer science.

60-611. Advanced Software Engineering Topics

This course addresses current practices in medium to large-scale software development projects. A comprehensive overview of important design patterns is provided, with emphasis on practical aspects of software analysis and design methodology, implementation techniques and system development paradigms, as well as software testing and verification practices. Strong technical communication and process documentation, including those associated with standard and agile practices, are a particular focus of the course. (This course is restricted to students in the Master of Applied Computing program.)

60-615. Advanced Database Topics

This course will introduce students to advanced topics in database design and information retrieval. Topics covered may include DBMS three-schema level architectures, data models (e.g., relational, object-oriented model), query languages (e.g. Oracle SQL, PL/SQL), file organization and indexing, transaction management, concurrency control, security and recovery procedures, information retrieval on the internet, and other advanced topics (e.g. online analytical processing -- OLAP, data warehouses and data mining).

60-634. Internet Applications and Distributed Systems

This course will introduce students to the latest tools and technologies for developing internet applications. Topics covered may include a review of client/server model and applications, multi-tier software architecture, content management systems, dynamic server-side applications, principles of parallel programming and distributed systems and techniques for solving complex problems using distributed systems. (This course is restricted to students in the Master of Applied Computing program.)

60-654. Advanced Computing Concepts

This course covers advanced topics in principles and applications of algorithm design and analysis, programming techniques, advanced data structures, languages, compilers and translators, regular expressions, grammars, computing and intractability. Cases studies and applications in current programming languages are explored in class and labs. (This course is restricted to students in the Master of Applied Computing program.)

60-656. Advanced Systems Programming

This course explores advanced topics in software development techniques for systems programming in the context of the Unix environments for different platforms, ranging from handheld devices to mainframes. Topics include; overview of Unix/Linux and Android operating systems, Shell programming, process control and communication, multi-threading, internet client/server application and service development.

60-667. Networking and Data Security

This course will introduce students to the fundamental concepts of computer networks, with an emphasis on network security. Topics will cover fundamental principles and protocols of computer networks, types of security threats and vulnerabilities and a variety of techniques for addressing security issues, such as security protocols, firewalls, intrusion detection/prevention. (This course is restricted to students in the Master of Applied Computing program.)

60-699. Project/Internship

This course will provide supervised experience in completing an approved software project. The focus will be on the application of technical knowledge and skills to a specific project and development of other transferable skills. Students may have the opportunity to complete their project in an approved career-related setting. (6.0 credit course.)

60-701. Work Term

The Work Term is offered on a Pass/Non-Pass basis. It provides the opportunity for students to enhance academic learning with valuable industrial experience, and to develop transferable skills in an applied setting. Students need departmental permission to enrol in the work term, and must have successfully completed a minimum of one-semester full-time study in the graduate program. (Pre-requisite: Departmental permission).

60-797. M.Sc. Thesis

60-798. Doctoral Dissertation Research

An original research investigation, the results of which will be embodied in a concisely written dissertation conforming in style and format to a recognized journal in the field of specification. The dissertation should be of the highest quality possible and suitable for publication. In no case may this course be used for credit toward fulfilling the course requirements in the Ph.D. program.

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EARTH AND ENVIRONMENTAL SCIENCES: COURSES

All courses listed will not necessarily be offered in any one year.

61-530. Crustal Fluids

Physical and chemical architecture of crustal fluid flow systems. Sources of fluids, fluid geochemistry, fluid-mineral equilibria and interactions, fluid inclusions, controls and mechanisms of fluid flow. The role of fluids in selected geological processes will be investigated. (3 lecture/seminar hours a week.)

61-531. Fluid Flow in Porous Media

Evolution and dynamics of fluids in porous media: theory for groundwater flow; multiphase flow; fluid-mineral equilibria and interactions; chemical transport and reactive flows. The role of fluids in selected low temperature environments will be investigated. (3 lecture/seminar hours a week.)

61-532. Numerical Simulation of Subsurface Fluid Migration

Numerical modelling theory, methods and implementation into computer software for subsurface fluid flow and mass transport; finite difference method; finite element method; integral equation method; conceptual model design and sensitivity analysis; applications to exploration, environmental and engineering issues. (3 lecture/seminar hours a week.)

61-544. Sedimentology of Detrital Deposits

Hydrodynamic significance of primary sedimentary structures, post-depositional modification of sediments; biostratification and trace fossils; sedimentary environments; sedimentological methods in economic geology. (3 lecture hours a week.)

61-545. Advanced Topics in Igneous Petrology and Global Tectonics

Petrochemistry of igneous rocks in important geotectonic settings and implications for mantle and crustal processes. Precambrian greenstone belt magmatism and crustal evolution. Major and trace element geochemistry and stable and radiogenic isotopic systematics of igneous rocks. (Prerequisite: 61-565 or consent of instructor.) (3 lecture and/or seminar hours a week.)

61-548. Advanced Topics in Environmental Geochemistry

An investigation into the effects of near-surface geochemical processes and activities on the migration of chemicals in the environment. Topics to be covered include current research in: geomicrobiology, analytical techniques, colloid chemistry, contaminant transport, and bioavailability. (3 lecture and/or seminar hours a week.) (Prerequisite: 61-565 or consent of instructor.)

61-549. Advanced Topics in Sedimentology and Sedimentary Geochemistry

Principles of facies models as derived from modern environments and ancient successions; geochemistry and mineralogy of sedimentary rocks and natural waters; chemistry and mineralogy of weathering; geochemical facies analysis; fractionation of elements and isotopes during sedimentation; chemical diagenesis; organic matter and mineral diagenesis; geochemical evolution of sedimentary rocks through geologic history. (Prerequisite: 61-565 or consent of instructor.) (3 lecture hours a week.)

61-555. Advanced Topics in Geophysics

Recent advances in selected geophysical topics. Subjects may include paleomagnetism and environmental magnetism, tectonophysics, modern analytical methods or exploration geophysics. Lectures and seminars on fundamentals and selected case histories. (Prerequisite: consent of the instructor.) (3 lecture and/or seminar hours per week.)

61-556. Applied Geophysical Techniques

The theory, methodology and application of selected geophysical techniques are studied through the design and implementation of a class project. Surveyed techniques may include: magnetic, gravitational, ground penetrating radar, induced polarization and others. (Prerequisite: consent of instructor.) (3 lecture and/or project hours a week.)

61-559. Underground Storage

Exploitation of subsurface space for storage of industrial products and wastes. Possible environmental impact of poorly planned underground storage. Economics of subsurface vs. surface storage. Emphasis on Canadian case histories. (3 lecture hours a week.)

61-560. Advanced Topics in Mineral Deposit Geology and Geochemistry

Discussion of current genetic models for selected types of mineral deposits. Ore-forming processes. Selected topics in hydrothermal geochemistry. (Prerequisite: 61-565 or consent of instructor.) (3 lecture and/or seminar hours a week.)

61-564. Research Methods in Geochemistry

Sampling of geological materials. Sampling statistics. Modern analytical methods in geochemistry theory and selected applications. Data analysis. (Prerequisite: consent of instructor.) (3 lecture and/or project hours a week.)

61-565. Advanced Topics in Geochemistry

A discussion of key concepts in geochemistry. Topics may include aqueous complexation and solubility, mineral stability, radiogenic and stable isotopes, fluid phase equilibria, trace elements, thermodynamics, and kinetics. (Prerequisite: consent of instructor.) (3 lecture and/or seminar hours a week.)

61-574. Advanced Topics in Geoinformatics

Selected analytical and processing techniques in geographical information systems (GIS), remote sensing (RS), environmental modelling, and spatial decision support systems (SDSS). Spatial data acquisition methods and database integration. Application examples and technical issues. (Prerequisite: consent of the instructor.) (3 seminar hours per week.)

61-575. Advanced Integration of Remote Sensing and GIS Techniques

Lectures, readings and practical projects will focus on image rectification, restoration, registration, and integration of digital photographic, multispectral scanner data, radar image data and ancillary data in a GIS environment. Multitemporal data merging, change detection procedures, and multi-source image classification decision rules will also be emphasized. (Prerequisite: 61-574 or consent of instructor.) (3 lecture, seminar, and/or project hours a week.)

61-576. Environmental Modelling and Spatial Simulation

The modelling process; integrating environmental models and GIS; spatial heterogeneity and representative areal units; measurement scales vs. process scales; sensitivity and uncertainty analysis; model complexity; effects of input data quality; simulation model experiments; technical and conceptual limits of environmental modelling. Students will complete a small research project. (Prerequisite: 61-574, or consent of instructor.) (3 seminar hours a week, plus project.)

61-580. Graduate Seminar

Discussion of current topics in the earth sciences in seminars given by students, faculty members, and visiting speakers. Students are expected to participate in discussions and present a seminar. (Students must register in this course in the Fall and Winter terms of full-time registration in the M.Sc. program and in the first two years of the Ph.D. program.) (1 hour a week.)

61-582. Master's Thesis Proposal

Preparation of a written report containing: a thorough review of the literature relevant to the proposed research topic; an outline of the proposed research including a discussion of the expected contributions to the subject area and how these relate to previous work; a description of the relevant methods; and the expected timetable to completion. The student shall be examined by his or her advisory committee on the content of the proposal and related background knowledge, and shall present the proposal in a public lecture.

61-590. Special Topics

(May be taken for credit more than once provided that the topics are different.)

61-700. Doctoral Research Proposal

Preparation of a written research proposal containing: a thorough review of the literature relevant to the proposed research topic(s); an outline of the proposed research including a discussion of the expected contributions to the subject area and how these relate to previous work; a description of the relevant methods; and the expected timetable for completion. The proposal shall be presented in a public lecture. The student shall be examined by his or her advisory committee on the content of the proposal. The student must demonstrate an understanding of the context of the research project in the light of published research on the topic(s) presented, an understanding of the objectives and the methods to be used, and be able to articulate the contribution that the research will make to the advancement of knowledge. (Prerequisite: registration in the Ph.D. program.)

61-797. Master's Thesis

61-798. Doctoral Dissertation

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ECONOMICS: COURSES

All courses listed will not necessarily be offered in every term. Courses are normally three hours a week.

41-501. Microeconomic Theory I

An intensive review of the theory of the firm and consumer theory.

41-502. Macroeconomics Theory I

An intensive review of theories of the determination of aggregate output, employment and price level.

41-503. Microeconomic Theory II

Additional topics in microeconomic theory.

41-504. Macroeconomic Theory II

Additional topics in macroeconomic theory.

41-510. Theory of International Economics

An introduction to the problem of international trade of goods and services, and the related issues of exchange rate determination and balance of payment; Domestic policies under alternative exchange rate regimes; Money and exchange rates in models with sticky or flexible prices.

41-516. Labour Economics I

The demand and supply analysis; human capital; trade unions and collective bargaining; wage structures; labour mobility.

41-531. Industrial Organization

A theoretical and empirical analysis of firms and markets.

41-541. Econometric Theory I

The general linear model, selected single equation problems, and an introduction to simultaneous equations methods.

41-542. Econometric Theory II

Additional topics in econometric theory (Prerequisite: 41-541.)

41-543. Applied Econometrics

The specification, estimation and testing of economic models. Emphasis will be on the classical linear regression model, the implications or violations of its basic assumptions and diagnostic testing. (This course is not intended for students who take 41-541.)

41-550. Monetary Theory

A survey of recent developments in the theory of money and monetary control of an economy, in addition to selected topics.

41-580. Models of Strategic Behaviour

A review of game theory showing how strategic reasoning can be used as a tool in decision theory. Topics include solution concepts for Normal form and Extensive form games, plus applications.

41-581. Mathematical Economics

The formal properties of selected economic models. Includes an examination of the problems of existence, uniqueness and stability of solutions.

41-582. Selected Topics in Economic Theory

An examination of the most recent literature on one or two selected topics in theory.

41-590. Regional Economics

Theoretical and policy issues relating to large regions, including, for example, distribution of wealth, distribution of productive resources, and migration.

41-591. Urban Economics

Theoretical and policy issues relating to urban areas, including, for example, urban growth and land use.

41-594. Special Studies in Economics

Research and reading course in a selected field approved by the Department.

41-796. Major Paper

APPLIED ECONOMICS AND POLICY (MAEP) COURSES

41-601. Applied Microeconomics

This course offers a systematic presentation of consumer theory, theory of the firm, and market equilibrium. Topics covered include preferences and utility, exchange, production, pricing, market structures, and welfare economics. These concepts are then applied to various policy issues including price and quantity regulation, taxation of labor and capital, income

distribution, and the minimum wage.

41-602. Applied Macroeconomics

This course provides a systematic overview of the theory of aggregate output and employment, the rate of interest, and price level determination. Coverage includes the theories of consumption and investment, the demand and supply of money, inflation, unemployment, and economic growth. These topics are discussed in the context of contemporary empirical work on aggregative relationships. Finally, the theory developed is applied to various policy issues such as a zero inflation rule, full employment legislation, and a balanced budget amendment.

41-603. Mathematics for Applied Economics

This course focuses on the mathematical methodology to be used in economic analysis. Topics covered include differential calculus and their importance in economics, linear algebra and its applications, optimization, Taylor series and linear approximation. Particular emphasis is placed on learning about how to use these methods in order to analyze economic phenomena.

** This course will be cross-listed with undergraduate course (41-306), with more advanced expectations set for students enrolled under the graduate number.

41-604. Applied Econometrics 1

In this course, students will perform applied econometric analysis and use various econometric methods. Topics include probability and sampling, distribution theory, hypothesis testing, estimation, and analysis of variance

41-605. Applied Econometrics 2

This is a continuation of 41-604. Students will use statistical methods to analyze economic data, including empirically testing some economic theories and making predictions. Students will perform applied econometric analysis and use advanced econometric methods. (Prerequisite: 41-604.)

41-606. Business Communication

This course aims to enhance students' communications skills and ability within a Canadian academic and employment context, including the opportunity to enhance their academic and occupational communication skills throughout a variety of relevant mediums.

41-607. Research Project in Economic Policy and Seminar

This course is intended to develop independent research and presentation skills. With the guidance of the Instructor, students will choose a research economic topic, pose a specific question to be addressed and investigate the question. Students will be expected to conduct a formal literature survey which will form the basis for their investigation. The resulting paper can be theoretical, empirical or qualitative in nature. Students will be assessed on the basis of classroom discussions, classroom presentations and written assignment. (Prerequisites: 41-601, 41-602, 41-605.)

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EDUCATION: COURSES

Not all courses will necessarily be offered each year. All 600-level courses are restricted to students in the joint Ph.D. program.

80-502. Learning-Centred Teaching in Higher Education: Principles and Practice

This course offers the opportunity to explore, apply, and evaluate principles and theories of learning-centred practice in contexts typical of higher education. Analysis and reflection on teaching practice constitutes a central theme of learning in the course. The course is of particular interest to teaching assistants and members of the professoriate from across the disciplines and professional fields, but prior teaching experience in higher education is not a prerequisite.

80-503. The Psychology of Learning and Teaching

This course will provide students with an in depth view of psychological theory and research towards the understanding of learning and teaching. While both behavioural and cognitive perspectives will be discussed, the emphasis will be upon cognitive theory and application. Topics will include behaviourism, behaviour modification, information processing, metacognition, cognitive behaviour modification, cognitive strategy training, motivation and individual differences.

80-510. Statistics in Education

This course will deal with the following: descriptive and inferential statistical procedures; commonly used one- and two-sample tests; an introduction to analysis variance and corresponding research designs.

80-515. Comparative and International Education

The course is designed to introduce students, who are registered in both the Educational Administration and Curriculum stream of the M.Ed program, to important educational issues from a comparative and international perspective. Within this framework, the similarities and differences between Canadian education and educational practices in other countries of the world are examined. Key questions that guide the direction of the course include, although are not limited to the following: what can we learn from the educational, teaching and learning practices of other countries? What are the processes involved in educational policy formulation from an international perspective? What are the emerging global trends in education and how does globalization impact on education and teaching/learning practices in Canada? In addition, various international frameworks for promoting peaceful educational/school environments such as peace education, global, and intercultural education are explored. The local, national and global impact of the educational policies of international agencies such as the UN, UNESCO, the World Bank, and CIDA are also analyzed.

80-524. Fundamentals of Curriculum Theory and Development

A survey of the major theories of curriculum that have influenced education. An outline of the techniques employed in curriculum development, including sources of influence and control, specification of outcomes, selection and coordination of activities, strategies, resources and evaluation.

80-527. Research in Education

An overview of educational research methods: e.g., the interpretation of research literature, the identification and use of data bases, the design of research proposals and the application of specific methods to research projects.

80-529. Theories of Educational Administration

This course will examine current knowledge in educational administration. Theory, research, and the practice of leadership within the educational system will be the main foci. Emphasis will be placed on administrative problems, such as staff development, team building, and motivation.

80-530. Qualitative Methods in Educational Research

This course will examine the concepts and methods involved in carrying out educational research through naturalistic observation, participant observation, case studies, and other qualitative approaches.

80-531. Supervision of the Instructional Process

A practice-oriented course designed to develop administrative competency in the supervision of instruction. The focus will be threefold: (1) awareness and recognition of specific technical skills, (2) the development of competence in interpersonal and group skills, and (3) a general examination of supervisory approaches.

80-532. Organization and Administration of the School

This course will consider and analyze the many variables impacting upon school administrators as they organize their schools. The effects of administrative theory, past and present, will be considered.

80-533. Survey Design and Research

This course will provide students with an overview of survey research and questionnaire design. Students will critique existing survey research, develop a working knowledge of survey research design, critique samples of survey questionnaires, and design a questionnaire based on a chosen research topic.

80-534. Individual Reading

The Individual Reading course is intended to permit students with special interests in, and knowledge of, particular areas of education not covered in sufficient depth in available courses to pursue those interests through independent, supervised study. (Permission of an advisor and of a subcommittee of the Graduate Studies Committee is required.)

80-535. Organizational Behaviour in Educational Institutions

A study of theory and research in the socio-behavioral sciences which concerns the behaviour of individuals and groups in educational settings. Attention will be given to the implications of such theory and research for administration in educational institutions.

80-536. Introduction to Educational Policy Analysis

This course focuses on a critical and disciplined examination of education policy issues drawing on a variety of theoretical orientations such as positivist, pluralist, post-positivist, poststructuralist and others. These perspectives provide different lenses to view current and past education reform and restructuring policies in Ontario and other jurisdictions in Canada, Australia, New Zealand, Finland, U.S.A, and the U.K. It reviews current theoretical approaches to the nature, development, and implementation of educational policy at all levels. The course critiques policy-makers' approaches to reform, and restructuring, and the potential short and long term impacts of these changes on the philosophy, content and practices in the public education arena. By thinking about what sort of people and voices inhabit the texts of policy, the course enables participants to think about how we engage with the social and collective identities of our research subjects in an attempt to capture the complex interplay of identities and interests, and coalitions, conflicts and uneasy 'settlements' within the processes and enactments of policy.

80-537. Language Arts in the Elementary School

This course will examine issues in language arts instruction in the light of current language theories. The focus is on current research and its practical application, with special emphasis on methods of instruction, teacher strategies, student activities and evaluation practices.

80-538. The Arts and Education

This course explores how the arts influence the construction of meaning in society, both within and beyond the classroom. Representation, through images, music, and text, traditionally serve to preserve cultural memory, but can also reflect changing social mores, challenge established ideas, and trigger new ways of thinking. Readings will include current research in the arts and education, and class activities will include the production and interpretation of images and artefacts.

80-539. Second Language Teaching: Theories and Applications

This course reviews current thinking on the nature of language, communication and second-language learning and examines implications for teaching methods and curriculum design.

80-540. Language, Culture, and Society

The New London Group (1996, 2000), an international group of literacy experts, coined the term "multiliteracies." In their manifesto, they suggested that literacy needs to focus on ensuring that people of diverse linguistic and cultural backgrounds be able to integrate in all societies without losing what is unique to their identities, and for accents and dialects to be recognized as a part of the English language (that there is no one true standard English). It is a matter of equity that we find genuine ways to embrace diversity. The other thrust of the New London Group's theory is that multiliteracies provide a better way to define literacy because it acknowledges the role that technologies, multimodalities, semiotics, and media play in literacy and how meaning is constructed and communicated. A multiliteracies theoretical framework has implications for systemic as well as individual changes in both schools and broader societies. This course will trace some of the historical roots of multiliteracies in critical theory as well as analyze how multiliteracies are developing in practical and theoretical terms in the current world.

80-541. The Social Science Curriculum

An examination of trends and development of social science curricula. Curriculum theory will be applied to one or more of the social sciences within the context of provincial guidelines and the academic and professional qualifications of the students.

80-542. Language System Analysis

This course is a broad introduction to the analytic study of human languages. It surveys language systems such as: phonology, morphology, syntax, semantics, and pragmatics. It explains how those systems interact with each other synchronically in discourse and diachronically in creating language families. Students have an opportunity to examine the universal features of all languages and their relationship to linguistic variety. Topics in historical linguistics, sociolinguistics, psycholinguistics, and neurolinguistics are explored. Various writing systems used in world languages are also discussed.

80-543. Special Education and Language Acquisition

The relationship between language acquisition, perceived learning dis/abilities, and special education support has been the subject of ongoing debate. Key topics linked to this debate include: language impairment, needs assessment, access to support, method of support, program design, and disproportional representation. These matters have significant implications for language learners, educators, and program developers alike. Those involved in teaching-learning an additional language, whatever that language might be, face a number of important questions, including: What is language impairment? How should the needs of language learners be assessed? Who should access support? What should that support look like? What should inclusion look like in a language learning setting? Why have language learners been disproportionately represented in some special education programs? As these questions indicate, language learning is complicated, and is intertwined with a number of social justice issues. In this course, students will critically examine a range of current research, and draw conclusions about the discourse on the relationship between language acquisition, perceived learning dis/abilities, and special education support.

80-545. Teaching for Sustainability: An Introduction to Environmental Education

This course will engage students in an analysis and investigation of the philosophical and pedagogical underpinnings of EE, and the pragmatic relevance of learning for sustainability. To this end students will get an opportunity to critically discuss, analyze, and evaluate a variety of perspectives around the environmental debate and assist them in articulating, clarifying,

and/or refining their own assumptions and position about the environment and implications for sustainability. Fundamental questions to be answered include, what is the rationale for teaching and learning for sustainability and what are the core principles and competencies that should drive this pursuit? Secondly, what pedagogical constructs are useful in effective teaching and learning for sustainability? Students will engage in investigations of real world environmental issues, and problem-solving, and experiential learning through field-trips.

80-547. Learning in Science

This course will consider current research and theory in the promotion of science as a process and product. Included will be a critical survey of recent issues in science education. The focus will be on their implications for curriculum and practice at the classroom level. An examination of some of the major difficulties in the design, development, implementation, and evaluation of science curricula.

80-550. Issues in Education

This course will examine current issues affecting contemporary Canadian education. Specific course content and instructors will be published in advance.

80-551. Information and Communication Technologies (ICT) for Teaching and Learning

This course explores how Information and Communication Technologies (ICT) can support teaching and learning within an educational context. It analyzes principles, strategies and related issues regarding the design of innovative educational technologies and creative learning environments. This course will include discussions based on assigned readings as well as hands-on learning activities. Students will gain an understanding of how various Information and Communication Technologies (ICT) enhance a student-centered approach to learning.

80-552. Curriculum Developments in Mathematics Education

This course will examine recent developments in curriculum, instruction, and evaluation in elementary and secondary mathematics education. Trends will be discussed in light of recent research findings, technological advances, and social goals. International comparisons will be made.

80-553. The Teaching and Learning of Mathematics

This course will examine research into students' learning and the teaching of mathematics. First, the motivational aspects of teaching and learning will be considered, including those related to the topic "Women in Mathematics." Second, specific mathematical topics will be dealt with, selected according to the interests of students.

80-554. Fundamentals of Instructional Design

This course will consider current principles, research, theory and practice in the design, development, implementation and evaluation of instruction within various learning and teaching settings.

80-555. Strategies for the Implementation of Change in Education

Procedures for dissemination, adoption, implementation, and integration of changes for teachers, administrators, and leaders of professional organizations. Attention will be given to theoretical models and their applications, change agency, and modification of organizational climate and structure.

80-556. Approaches to Literacy Development

This course will consider current research and theory in the development of reading and writing abilities, and will examine some aspects of assessing literacy development.

80-557. The English Language Arts

This course will examine current theories and issues in the English Language Arts with particular focus on their implications for curriculum and practice in the intermediate and senior divisions. Current issues at the local or provincial level, determined by the group, may be examined in detail.

80-558. Psychology of Learning Problems

This course will review current theories of learning disabilities and learning problems. Various approaches to diagnosis and remediation will be presented. Students will be expected to discuss case study examples during the course, and to develop a particular interest area to great depth.

80-559. The Recent History of Education in Ontario

This course examines major developments in Ontario education from the 1950s to the present day. Beginning with the postwar Hope Commission Report, and extending to the current attempts at reform, the Ontario school system for primary and secondary education has undergone a series of dramatic changes over the past half century. These changes will be investigated in the context of their historical evolution, and contemporary relevance.

80-560. Politics of Education

This course will examine the administration of education from a political perspective. Both the legal and extra-legal factors that influence educational outcomes will be examined. Their roles will be viewed in terms of comparative forms of educational administration. Finally, several administrative decisions will be analyzed using the perspectives gained throughout the course.

80-561. Legal Aspects of Education

This course will focus on legislation and court decisions dealing specifically with the educational process. Both the historical and philosophical basis of these and the practical application of the same in a contemporary setting will form the primary emphasis for the course.

80-562. Educational Finance

This course will be concerned with educational finance in Canada, with particular emphasis on Ontario. It will examine such topics as equity, accountability, efficiency, and adequacy of educational revenues and expenditures. Provincial grant systems will be analyzed within the contexts of political governance and the economics of education.

80-565. Sociological Aspects of Education

This course will examine the school and its occupants and their relationship to the contemporary social order. Analysis of topics such as student culture, learning and social class, roles within the school setting will occur. The focus will be on theoretical positions, representative research findings and representative research methods.

80-566. Interpersonal Relationships in Education

This course will analyze the importance and dynamics of interpersonal behaviour. Students will be given the opportunity to examine and develop their own skills in this area. Emphasis will also be placed upon a practical orientation toward utilizing these skills in the educational environment.

80-572. Theory and Practice in Early Childhood Education

An examination of theory and current practice in Early Childhood Education. The emphasis will be on the translation of theory into sound educational practice. Organization and management of Early Childhood programs will be of concern as well as teaching procedures.

80-591. Special Topics in Education

Selected advanced topics in Education based on new developments in particular areas, special faculty interests, and opportunities afforded by the availability of visiting professors. Special topics are subject to Graduate Committee approval and may be taken more than once provided the topics are different.

80-591(32). Special Topics: Language Assessment

This course introduces participants to international principles and practice of assessing language ability and engages participants in the debate on how to measure language fluency. A variety of national and global methods of language assessment will be critically discussed in this course. Participants will also compare and evaluate research that explores this subject as they justify their own analyses of language assessment research.

80-602. Doctoral Seminar I

In Core Seminar 1, the history and philosophical foundations of education are examined through the three fields of study. As well, students are introduced to qualitative methods of research in education, encompassing interview, phenomenological, ethnographic, constructivist, and case study approaches to data collection, analysis, and interpretation.

80-604. Doctoral Seminar 2

In Core Seminar 2 students examine research, theories, and issues in the fields of study via a specific theme which is identified annually. For example, the theme might be bullying, or caring education, or gender issues. As well, students are introduced to quantitative methods of research in education, encompassing true experiments, quasi experiments, and correlational studies.

80-621. Educational Leadership and Policy Studies

This course introduces students to the origins and intellectual traditions of theories that influence how we organize education. Students develop an understanding of sociological paradigms that have influenced educational systems over time, and develop perspectives that enable them to think critically and creatively about contemporary and future issues in educational leadership, policy, and organizations.

80-631. Socio/Cultural/Political Contexts of Education

This course centres around a critical examination of cultural, historical, and theoretical perspectives in education. Bodies of knowledge related to understanding the complexities of sociocultural influences in education are the main focus. Power relations at play and how they are negotiated in everyday practice are considered. Using the sociocultural framework developed in the course, students also investigate their specific areas of interest (for example, curriculum theory and practice).

80-641. Cognition and Learning

This course provides an analysis of epistemological theories through a critical examination of foundational and current research and a reflection on historical and philosophical orientations as they relate to contemporary issues in cognition and learning.

80-651. The Specialized Elective

The content for this course must relate to the students dissertation topic and field of study. The course may be selected from the graduate studies calendar of courses from one of the participating universities, or it may be taken as a directed study. A directed study takes place under the supervision of a faculty member with appropriate expertise. Usually, the student completes a sustained program of study relating to a topic of current theoretical and/or empirical interest leading to the production of a substantial research paper. Directed studies are intended for students with special interests which cannot be satisfied by calendar courses.

80-669. Research Proposal Colloquium

In this course students examine theory and research in relation to their intended dissertation topic. Students develop a topic idea in the form of a dissertation proposal, defining a research question and a theoretical base for intended study. Students examine research questions in relation to varied methodologies, so that a diverse examination of research frameworks takes place through WebCT based discourse.

80-680. Comprehensive Portfolio

(3 course equivalencies.)

80-793. Educational Research Internship

Candidates pursuing the course-based option as part of the International stream, under the guidance of the course instructor, field experience coordinator, and research partners in the field, will engage in a collaborative process leading to the production of a final paper on an issue or topic of inquiry of relevance to the research partners in the educational field. This course will present students with authentic assessment tasks that situates their on-going inquiries in a context that enables them to apply and further critique what has been learned previously. Students will engage in matters pertaining to research, program review, policy development, and so on, as appropriate. The spectrum of projects may, for example, address questions aimed at the improvement of literacy and numeracy skills, student motivation, curriculum integration, and leadership development. The final paper will be grounded in relevant research and show evidence of knowledge, skills of inquiry, reflection and problem-solving acquired through the other courses. It will normally be taken following completion of the other course-work. (Prerequisites: 80-515; 80-551; 80-529 OR 80-524; 80-527; 80-510 OR 80-530; 80-565; 80-535; 80-536; 80-566.)

80-794. Thesis Proposal

Candidates pursuing a Masters thesis, under the guidance of the thesis supervisor, internal thesis reader, and other faculty where appropriate, will engage in the preparation and defence of a Masters thesis proposal. (Before registering for the Thesis Proposal (80-794), students must have completed all required courses in their program. The Thesis Proposal may be completed concurrently with one elective in the final semester of coursework.) Thesis stream students must enrol in 80-794 (Thesis Proposal) and do so for each subsequent term until the thesis proposal has successfully been defended.

80-795. Final Project Seminar

Candidates pursuing the course-based option, under the guidance of the instructor and in consultation with other faculty where appropriate, will engage in a collaborative process leading to the production of a final project on an issue or topic of inquiry of relevance to professional practice. The final project will be grounded in relevant research and show evidence of knowledge, skills of inquiry, reflection and problem-solving acquired through the other courses. It will normally be taken following completion of the other course-work.

80-796. Major Paper

Conducted under the guidance of at least two members of the Faculty, a major paper may analyze and evaluate a substantial body of scholarly literature or describe or interpret a research project undertaken by the student. The major paper is subject to an oral examination (see section titled, The Master's Degree - Thesis or Major Paper, and the section titled [Education - The Master of Education Degree - Program Requirements](#).)

80-797. Thesis

(See section titled, The Master's Degree - Thesis or Major Paper, and the section titled [Education - Joint Doctor of Philosophy in Educational Studies](#).) Students may enrol concurrently in the Thesis Proposal (80-794) and the Thesis (80-797) if all course work is complete. If students register for the Thesis Proposal (80-794) and the Thesis (80-797) concurrently, then only upon completion of the thesis proposal; may thesis stream students begin their Thesis. They must enrol in 80-797 (Thesis) for each subsequent term until the successful completion and deposition of the thesis.

80-798. Doctoral Dissertation

(See section titled, The Degree of Doctor of Philosophy - The Dissertation, and the section titled [Education - Joint Doctor of Philosophy in Educational Studies](#).) (10 course equivalencies.)

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ENGINEERING: COURSES

85-519. Engineering Technical Communications

Engineering Technical Communications will prepare Master of Engineering (MEng) students to communicate technical information clearly and concisely, in written, oral, and graphical form. Students will work through a logical thought process for organizing advanced concepts as well as practice technical writing styles to effectively write and organize advanced technical papers for presentation and publication. Students will also work in teams to prepare written technical papers and will present this information as part of a major project. (Open to Masters of Engineering students, excluding students in the MEng Auto Program. Open to engineering MAsc/PhD students on permission of the department/faculty as a qualifying course only. Will not count for credit towards MAsc/PhD degree.)

85-540. Engineering Management Capstone

This is a jointly instructed and administered course between the Faculty of Engineering and the Odette School of Business. The course is the last course students take in the Masters of Engineering Management program and has mandatory prerequisites. The goal is to allow students to practice all business and management theory they learned in previous courses by completing one of: 1) an engineering management report 2) an engineering feasibility study, or 3) a new venture business plan. This course is entirely project-based. (Prerequisites: All 6 mandatory core courses within the MEM program) (2 semester, 6.0 credit course) (Cross-listed with Business 76-540)

85-545. Engineering Mathematics

The course will cover topics in advanced modern engineering mathematics not addressed in earlier courses and considered to be crucial for more advanced engineering courses at the graduate level. These topics include: Fourier series and Fourier transforms, with applications in the frequency domain modelling, solution of partial differential equations with applications in continuum mechanicals and electromagnetism, solution of integral equations with applications in acoustics and aerodynamics. (Open to Masters of Engineering students, excluding students in the MEng Auto Program. Open to engineering MAsc/PhD students on permission of the department/faculty as a qualifying course only. Will not count for credit towards MAsc/PhD degree.)

85-550. Engineering Project Management

This course will expose students to principles, concepts, and tools utilized in project management activities. This course will include topics such as defining project scope, and time, cost, risk, procurement and stakeholder management. The students will be engaged in working on a major project to develop proficiency in project management activities and tools. (Open to Masters of Engineering and Masters of Engineering Management students, excluding students in the MEng Auto Program. Open to engineering MAsc/PhD students on permission of the department/faculty as a qualifying course only. Will not count for credit towards MAsc/PhD degree.)

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CIVIL AND ENVIRONMENTAL ENGINEERING: COURSES

CIVIL ENGINEERING

Courses offered by Civil Engineering at the graduate level are listed below. Students may take courses other than Civil Engineering with permission of the Head of the Department and the advisor.

All courses listed will not necessarily be offered in any given year.

87-500. Theory of Elasticity and Plasticity

Analysis of stress and strain; elastic and plastic stress-strain relations; general equations of elasticity; yield criteria; applications to elastoplastic problems, including rotating disks, thick-walled tubes, reinforced disks, torsion of various shaped bars; stress concentration. (3 lecture hours a week.)

87-501. Finite Element Methods for Solids and Structures

Structural idealization; stress analysis of 2-D and 3-D solids; error estimation and mesh adaptivity; elastic formulations and uses of beam, plate and shell elements; nonlinear formulations; structural stability; introduction to finite element methods in structural design optimization. (3 lecture hours a week.)

87-502. Analysis and Design of Shell Structures

General theory of thin shells. Membrane stresses in shells of revolution and shells of double curvature. Bending stresses in shells of revolution, cylindrical shells and folded plates. Design of cylindrical shell roofs. (Prerequisite: 87-500 or equivalent.) (3 lecture hours a week.)

87-505. Theory of Stability

This course is designed to give an insight into the basic phenomenon of structural stability. Elastic and plastic flexural-buckling of columns with axial and eccentric loads is studied. Energy and numerical methods are used. Stability functions are introduced and used to study trusses and rectangular frames, with and without sidesway. Some discussion of torsional and torsional-flexural buckling, lateral buckling of beams. (3 lecture hours a week.)

87-511. Prestressed Concrete

Materials, principles of prestressing systems; prestressing losses; analytical treatment of the effect of shrinkage, creep of concrete, and cable friction on stresses; analysis and design of statically determinate and indeterminate structures; design codes; research background; introduction to prefabricated concrete structures. (3 lecture hours a week.)

87-513. Structural Dynamics

Formulation of equations of motion; single degree-of-freedom systems: free vibration response and response to harmonic, periodic, impulse, and general dynamic loading; analysis of non-linear structural response; multi degree-of-freedom systems: equations of motion, structural property matrices, undamped free vibration, Raleigh's method, forced vibration response, practical vibration analysis; continuous systems: partial differential equations of motion, analysis of undamped free vibration, analysis of dynamic response, wave propagation analysis. (3 lecture hours a week.)

87-514. FRP Reinforced Concrete Structure

Advanced composite materials - constituents and products; structural applications, reinforced concrete members, prestressed concrete members, applications with chopped fibres, repair and rehabilitation; innovative applications. (3 lecture hours a week.)

87-519. Advances in Soil Mechanics and Geotechnical Applications

Consolidation and improvement methods; compressibility of soils and application of new modification techniques; frost action in soils; design of gravity, cantilever and mechanically stabilized retaining walls; recent advances in the bearing capacity of foundations on reinforced soils; pile foundations and pile groups; machine foundations on piles. (3 lecture hours a week.)

87-521. Hydrology

Analysis and synthesis of the hydrograph. Streamflow routing. The hydrograph as a function of drainage characteristics; estimation of runoff from meteorological data. Snowmelt. Flow in rivers with an ice cover. Infiltration theory. Sea water intrusion in coastal aquifers. Application of hydrologic techniques including statistical methods. (3 lecture hours a week.)

87-522. River Mechanics

Theory and analysis of uniform, gradually varied, rapidly varied and steady and unsteady flow in open channels; fluvial processes; design of channels; design of hydraulic control structures. (3 lecture hours a week.)

87-523. Ground Water Contamination

Introduction of Darcy's equation and governing equation; construction of flownets, flow quantification, and ground water resource evaluation; contaminant hydrogeology, mass transport equations, reaction, and adsorption; introduction to biodegradation and natural attenuation; simulation of ground water flow and transport. (3 lecture hours a week.)

87-524. Advanced Hydromechanics

Properties of scalar and vector fields; gradient, divergence and curl. Flow visualization. Flow kinematics: continuity equation, potential flow, stream function. Flow dynamics: transport theorems, integral and differential equations of motion. Boundary-

layer theory. Turbulent flow and turbulence models. (3 lecture hours a week.)

87-526. Sediment Transport

Regime approach; turbulence theories; suspended sediment; tractive force method; bedforms and bedload transport; the Einstein method; modified Einstein method; reservoir siltation; recent developments; design of mobile bed channels; design of sedimentation basins; channel degradation. (3 lecture hours a week.)

87-590. Special Topics In Civil Engineering

Selected advanced topics in the field of civil engineering. (3 lecture hours a week.)

87-595. Graduate Seminar

Presentations by graduate students, faculty and visiting scientists on current research topics. This course will provide students the opportunity to recognize new developments and technology in the field, to critique others' findings and to construct and present their ideas and results. Full time graduate students are required to register in every semester offered and give a presentation in the semester prior to thesis defence. All graduate students are expected to attend each and every seminar and no less than 75% of all seminars. This course will be graded on a PASS/FAIL basis (1 lecture hour a week) (Also offered as 93-595)

87-796. Major Paper

87-797. Thesis

87-798. Dissertation

ENVIRONMENTAL ENGINEERING

Courses offered by Environmental Engineering at the graduate level are listed below. Students may take courses other than Environmental Engineering with permission of the Head of the Department and the advisor.

All courses listed will not necessarily be offered in any given year.

93-530. Water Pollution Control

Water quality criteria; methods of wastewater disposal and their effects on ecology; theory and design of different unit operations and processes for water purification; theory and design of different design operations and processes of wastewater treatment; reuse and recycling of wastewater. (3 lecture hours a week.)

93-531. Advanced Water Pollution Control

Discussion on recent advances in the design of water and wastewater treatment plants and new developments in water pollution control practices. (Prerequisite: 93-530 or equivalent.) (3 lecture hours a week.)

93-533. Solid Waste Management

A study of municipal and industrial solid wastes, quantities, composition, methods of disposal or reclamation; economic viability of the various methods related to the quantities involved. (3 lecture hours a week.)

93-534. Environmental Separation Processes

Application of the principles of surface chemistry to separation processes involving phase equilibria, ion exchange, membrane separation, adsorption, absorption, flocculation, spherical agglomeration, sedimentation, filtration, and centrifugation. (3 lecture hours a week.)

93-535. Water Quality Management

Water quality criteria; methods of wastewater disposal and their effects on ecology; stoichiometry, reaction kinetics and material balance; movement of contaminants in water bodies; modelling of water quality in natural systems. (3 lecture hours a week.)

93-537. Kinetics

Basic concepts of chemical reaction kinetics; characterization of chemical and biochemical systems; reactor flow models and consideration of non-ideality. (3 lecture hours a week.)

93-538. Biological Treatment of Wastewater

Wastewater characteristics; biological kinetics; flow and loading variation; wastewater treatment processes; mass balances; aeration; sedimentation; lagoons; fixed-film processes; sludge characteristics. (3 lecture hours a week.)

93-539. Industrial Wastewater Treatment

Sources and characteristics of industrial wastewater; pretreatment and primary treatment; physical and chemical treatment; biological treatment; waste minimization; treatment of wastes from various industries. (3 lecture hours a week.)

93-540. Numerical Modeling of Heat and Mass Transfer and Flow in Porous Media

Introduction to finite difference and finite element approaches for simulation of the diffusion and the advection-dispersion equations; development of finite difference formulation of 1-D and 2-D transient heat transfer, nonlinear conductance and source/sinks; 1-D and 2-D mass transport with reaction; 1-D and 2-D heat transfer with finite element approach. (3 lecture hours a week.)

93-541. Air Pollution from Mobile Sources

Air pollutants; emissions from vehicles; testing vehicles for emissions; combustion thermodynamics; thermodynamics and kinetics of pollutant formation; measures to reduce emissions; modeling. (3 lecture hours a week.)

93-542. Air Pollution Modelling

Air quality standards; emission inventory, source estimation; development of transport models; models with chemical reactions. (3 lecture hours a week.)

93-543. Occupational Hygiene and Pollution Prevention

This course touches on an area of Environmental Engineering not currently covered in detail by other courses: the indoor environment. As well, students are introduced to the definition and methodology of pollution prevention (P2) in industrial settings. Topics include: environmental stressors, provincial and federal regulations, toxicology of contaminants, surveys of workplaces, measurements of airborne contaminants, engineering controls and steps in pollution prevention. (3 lecture hours a week.)

93-550. Sustainability: Principles and Practices

This course examines the evaluation, design, and management of products, processes, or projects to achieve sustainability. The main topics include: assessing and scoping environmental effects from engineering and other technical activities; eco-balance approaches; life cycle assessment; design-for-environment principles; and decision making for environmental and sustainability objectives. The course will discuss typical examples (e.g., automobiles, infrastructure, electronics), and also draw upon the industrial and research experience and knowledge of the class attendees. Class-based projects will focus on understanding, interpreting, and implementing the knowledge acquired. (Not open to students who attended 93-532, Engineering and the Environment, since 2002.) (3 lecture hours per week.)

93-590. Special Topics In Environmental Engineering

Selected advanced topics in the field of environmental engineering. (3 hours a week.)

Current topics include:

Air Pollution Control;

Transport Phenomena;

Environmental Law and Policy

Atmospheric Chemistry and Physics of Air Pollution.

93-595. Graduate Seminar

Presentations by graduate students, faculty and visiting scientists on current research topics. This course will provide students the opportunity to recognize new developments and technology in the field, to critique others' findings and to construct and present their ideas and results. Full time graduate students are required to register in every semester offered and give a presentation in the semester prior to thesis defence. All graduate students are expected to attend each and every seminar and no less than 75% of all seminars. This course will be graded on a PASS/FAIL basis (1 lecture hour a week) (Also offered as 87-595)

93-796. Major Paper

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ELECTRICAL AND COMPUTER ENGINEERING: COURSES

The graduate course offerings in Electrical Engineering are designed to complement the areas of specialization. Course requirements for the Ph.D., M.A.Sc., and M.Eng. degrees in Electrical Engineering will be selected from the courses listed below and related courses in other programs.

Graduate students will be associated with one of the areas of research. Their program of studies will be formulated in consultation with the graduate advisors and approved by the Chair of the Program Graduate Committee coordinator. Only a selected number of the courses listed below will be available each year. The current list will be provided by the Coordinator of Graduate Studies in Electrical Engineering.

NOTE: Graduate Student Status is required for all graduate courses in the Department of Electrical and Computer Engineering.

88-514. Advanced Power Systems

Synchronous machine models are developed from the voltage and flux linkage differential equations. Applying the developed models, numerical simulations are performed to determine the dynamic performances of synchronous machines. (3 lecture hours per week.)

88-521. Digital Signal Processing

Discrete Signals, discrete system models, z-transforms, Time Domain and Frequency Domain Analysis of Digital Filters, sampling theorem, Design and Realization of FIR and IIR filters, DFT and FFT, Stability and Stabilization of IIR Filters, Design of FIR and IIR Digital Filters Using Non-Linear Optimization Technique, Discrete Hilbert Transform, Sectioned and Fast Convolution, zero padding, digital signal processing applications. (3 lecture hours a week.)

88-522. Applied Time Signals Analysis and Processing

Continuous and discrete signals; sampling theory and practice; filtering, interpolation, coding, statistical concepts, transform methods; power density estimation, correlation functions, convolution. (3 lecture hours a week.)

88-523. System Theory

Continuous and discrete time systems, state formulation techniques, controllability and observability concepts, and system simulation. (3 lecture hours a week.)

88-524. Stochastic Processes

Development and applications of probability models in the analysis of stochastic systems; review of probability, random variables and stochastic processes; correlation functions applications to filtering, prediction, estimation and system identification. (3 lecture hours a week.)

88-525. 2-Dimensional Digital Signal Processing

Fundamentals of 2-D Signals and Transforms; Z, Fourier, discrete Fourier, etc., 2-D FFT, Design Techniques for 2-D FIR and IIR Digital Filters using Transformation and Optimization Techniques. Stability and Stabilization of 2-D Filters, Homomorphic Filtering, Reconstruction of Signals from their Projections. (3 lecture hours a week.)

88-527. Speech Processing

Production, perception, and acoustic-phonetic characteristics of speech signal; auditory models; linear prediction of speech; cepstral analysis; speech recognition; speech synthesis; spoken language processing; human-computer communications. (3 lecture hours a week.)

88-528. Image Processing

This course presents digital and hybrid representation of images, fundamentals of colour, 2-D systems, 2-D filter design and 2-D filtering of digital images, image enhancement techniques: homomorphic filtering, histogram equalization and modification techniques, median and statistical filtering, 2-D FFT algorithms, properties of digital images. Projects are given as a means of learning practical applications of the field. (3 lecture hours per week.)

88-529. Discrete Transforms and Number Theoretical Methods

Introduction to orthogonal transforms, DFT, DCT, DHT; implementation methods; fast algorithms, FFT, WFT; polynomial transforms; finite rings and fields; number theoretic techniques; residue number systems; conversion and computation; finite polynomial rings; VLSI implementation consideration. (3 lecture hours a week.)

88-531. VLSI Design

Overview of VLSI designs, CAD tools, application, technology; review of properties of silicon, solid state physics and devices; SPICE models; analog simulation; IC technology; target CMOS process; static CMOS logic; principles of standard cell CMOS design; dynamic characteristics of static CMOS logic; dynamic logic; system level considerations; hardware description languages; silicone compilers. (3 lecture hours a week.)

88-533. Computational Intelligence

Models of the human brain and sensory systems. Neural networks and learning algorithms. Fuzzy sets, fuzzy logic, and fuzzy systems. Evolutionary computation. Advanced topics in computational intelligence. (3 lecture hours a week.)

88-535. Nonlinear Systems

Introduction to the analysis and design of nonlinear control systems, mathematical preliminaries, second-order systems (including Lyapunov stability, center manifold theorem, input-output-stability) perturbation theory; control design for nonlinear systems. (3 lecture hours a week.)

88-536. Automotive Control Systems

Introduction to automotive control systems; engine operation and dynamics; engine management and control; robust engine control; hybrid powertrain modelling and control; estimation of vehicle parameters and models; vehicle control system; automotive electronics. (Crosslisted with 92-545.)(3 lecture hours a week.)

88-541. Low Power CMOS Design

This course is designed to prepare students for advanced VLSI design where low power dissipation is of critical concern. Topics will include: Introduction to low power techniques for CMOS circuit design; design levels of abstraction; sources of power dissipation, capacitance analysis, and power estimation; simulation-based and probability-based power estimation; low-level and high-level power optimization; advanced techniques for modern IC fabrication, and low power design tools from an industrial perspective; recent advances in low power CMOS design (3 lecture hours per week plus project.)

88-550. Adaptive Signal Processing

This course presents topics on optimum linear filtering (Wiener filter, linear prediction, and Kalman filtering), constrained linear estimation, Newton's method, steepest-descent method, stochastic-gradient algorithms: least-mean-squares (LMS) algorithms, affine projection algorithms (APA), recursive least-squares (RLS) algorithms. Comparative performance analysis of adaptive filters: steady state error, tracking error, convergence rate; finite precision effects. The students are introduced to applications on adaptive noise cancellation, interference canceling, and system identification. (3 lecture hours a week.)

88-551. Advanced Digital Signal Processing

Review of discrete-time systems and digital filters. Multirate systems including decimators, interpolators, polyphase decomposition, Nyquist filters, two-channel, and M-channel filter banks. Adaptive equalization including equalization techniques for digital receivers, linear and non-linear equalizers, adaptive algorithms, and blind equalization. Analysis of finite wordlength effects including coefficient quantization, arithmetic round-off errors, dynamic range scaling, and low-sensitivity digital filter structures. (3 lecture hours a week.)

88-552. Advanced Topics in Microelectromechanical Systems (MEMS)

Review of advanced topics related to the theory and modeling of MEMS design and fabrication techniques. Topics to be covered include: advanced micromachining techniques, smart microelectromechanical sensing and actuation techniques, microfluidics, photonic MEMS, advanced materials, device modeling, MEMS design case studies, system integration, micropackaging, MEMS design methodology, and reliability issues related to MEMS devices. Emphasis is on theory, lumped element modeling, 3-D multi-domain finite element analysis, static and dynamic device behavior study using industry standard MEMS modeling tools, simulation of fabrication processes using actual fabrication process parameters, and design verification. (3 lecture hours a week.)

88-553. Analysis of Electrical Machines

This course is concerned with understanding and modeling of induction, reluctance and permanent magnet synchronous generators used in wind power application. In addition, numerical analysis and a review of the basic characteristics used in wind power application. In addition, numerical analysis and a review of the basic characteristics of the above-mentioned electrical machines will be performed. (3 lecture hours a week.)

88-554. Automotive Sensor Systems

This course describes topics on sensors, optics & lighting, image representation, feature extraction, image analysis, image classification, 3D imaging techniques, GPS, radar, lidar 3D range imaging, intelligent and night vision, sensor integration and fusion. The students will apply their theoretical knowledge to solve a practical problem by completing a course mini-project. (3 lecture hours a week.)

88-555. Computer Arithmetic

This course presents a detailed description of general class of fixed-radix number systems, floating-point representation, algorithms and architectures for sequential and fast computation of multiplication, division and square root extraction, elementary functions, logarithmic and residue number systems, finite field arithmetic operations, error control in arithmetic processors. Course assignments and mini-projects on practical aspects of the course are required. (3 lecture hours a week.)

88-556. Computer Networks

This course will cover concepts and protocols which enable heterogeneous computer networks to work with each other, including transport (TCP, UDP), network (IP, IPng), routing (RIP, OSPF), network management (SNMP, SNMPv2, RMON), and other important protocols like ARP, ICMP, DNS, BOOTP, DHCP and HTTP. Advanced topics like Mobile IP, real-time and reservation protocols (RTP, RSVP), IP multicast (IGMP, MBONE) and network security will also be examined. Emphasis will be on broad coverage, as well as hands-on programming experiences. Local area networks, performance of queueing, multiple access schemes, IEEE802 standards, wireless LANs and wireless personal area networks will also be covered. (3 lecture hours a week.)

88-557. Multiuser Detection

This course presents an introduction to multiple-access communication systems: time-division multiple access (TDMA), frequency-division multiple access (FDMA), and code-division multiple access (CDMA); linear receivers for synchronous and asynchronous CDMA systems, blind multiuser detection (direct methods and subspace methods), linear decorrelating and minimum mean-square-error (MMSE) detectors, group-blind multiuser detection in multipath channels, adaptive multiuser detection, space-time multiuser detection, and turbo multiuser detection. Practical applications are demonstrated through course assignments. (3 lecture hours a week.)

88-558. Network Security

The course presents a concise discussion on the discipline of cryptography- covering algorithms and protocols underlying network security applications, encryption, hash functions, digital signatures, and key exchange. Internet security vulnerabilities, firewalls and their limitations, cryptographic technology and services, PPP and data layer security, IPSec and key management for network layer security, TLS, SSH and transport layer security, secure e-mail, secure infrastructure protocols, Kerberos authentication, secure RPC, remote authentication, authorization and tunneling protocols, virtual private networks, secure remote access, multicast security are covered. Practical applications are covered through assignments. (3 lecture hours a week.)

88-559. Physical Design Automation for VLSI and FPGAs

Introduction to backend CAD flow for VLSI and FPGAs; algorithms and CAD tools for technology mapping, floor planning, partitioning, placement and routing; exposure to timing analysis and timing-driven layout; assignments will involve use of academic and/or industrial CAD tools as well as development of simple CAD tools for specific layout tasks. (3 lecture hours a week.) (Prerequisites: consent of the instructor.)

88-560. Reconfigurable Computing

History and evolution of reconfigurable computing (RC) systems; FPGA-based and multi-FPGA systems, CAD mapping tools, run-time reconfiguration, study of recent RC systems from academia and industry targeting a wide range of applications. Literature review and paper presentation on specific topics is also required. The course may require a mix of project and assignments. (3 lecture hours a week.)

88-561. Statistical Communication Theory

This course describes the fundamentals of Statistical Communications in detail. The topics covered include: hypothesis testing, Bayes and the Neyman-Pearson criteria, minimum variance unbiased estimation, Cramer-Rao bound, sufficient statistics, maximum likelihood estimation, minimum MSE and maximum a posteriori estimation, linear MMSE estimation, detection of signals in white/colored noise, detection of signals with unknown parameters, composite hypothesis testing, generalized likelihood ratio test, sequential detection, and Wald's test. Applications of digital communications, radar/sonar signal processing, seismology, and biomedical engineering are discussed. (3 lecture hours a week.)

88-562. VLSI Implementation of Digital Signal Processing Systems

The course provides a concise discussion on the various aspects of implementations for DSP algorithms. The course begins with an overview of DSP algorithms. Topics discussed are: implementation platforms, pipelining and parallel processing, systolic architecture, finite wordlength effects in digital filters, pipelined and parallel filters and adaptive filters, and bit-level arithmetic architectures. (3 lecture hours a week.)

88-563. Wireless Communication Systems

Overview of mobile communications, the characterization and modeling of time-variant fading and/or dispersive channels, digital communication system performance over fading dispersive channels, diversity reception, optimum receiver, trellis-coded modulation, (fundamentals, performance evaluation and applications to mobile communications), spread spectrum systems, and code division multiple access (CDMA), TDMA, FDMA, multiple access schemes, CSMA, Aloha. Concepts on wireless ad hoc networks will also be introduced, MAC, routing, QoS protocols for these networks will be covered. (3 lecture hours a week.)

88-564. RF Integrated Circuit Design

Design of RF integrated circuits for communications systems, matching networks, low noise amplifiers (LNAs), mixers, tuned amplifiers, oscillator design, phase locked loops (PLLs), frequency synthesizers, RF power amplifiers, coupling networks.(3 lecture hours a week.) (Credit cannot be obtained for both 88-564 and it if offered under 88-590 as a Special Topics course.)

88-565. Introduction to Nanoelectronic Design

The purpose of this graduate course is to study the emerging nanotechnologies with focus on single-electron tunneling (SET) device and circuit design. It covers various aspects of SET-based nanoelectronic design, including quantum phenomena with nanodevices, I-V characteristics of SET transistors, SET inverters, SIMON simulator, SET-based threshold logic design, hybrid SET-MOS architectures, reliability issues of SET circuits, and SET-based multiple valued logic and memory design. Assigned readings of recent advances in this area (including the instructor's recent research progress) will be actively discussed. The course projects/presentations are usually required. The students are expected to use SIMON tool and/or Cadence tools for circuit simulation. The students should have some background in digital logic design and CMOS integrated circuit design.(3 lecture hours a week.) (Credit cannot be obtained for both 88-565 and it if offered under 88-590 as a Special Topics course.)

88-566. Data Security and Cryptography

This is an introductory course on the techniques, algorithms, architectures and tools of data security and cryptography. Firstly, the theoretical aspects of data security and cryptographic algorithms and protocols are reviewed. Then we show how these techniques can be integrated to provide solutions to particular data and communication security problems. This course contents are of use to computer and communication engineers who are interested in embedding security services into an information system, and thus, providing integrity, confidentiality and authenticity of the data and the communicating parties. Main contents: classical cryptography techniques; mathematical foundations; secret key cryptography; public key cryptography; authentication and digital signature; network cryptographic protocols.(3 lecture hours a week.) (Credit cannot be obtained for both 88-566 and it if offered under 88-590 as a Special Topics course.)

88-567. Advanced Analog Integrated Circuit Design

MOS Models for Analog Design, Electronic Noise, Bandgap References, Operational Transconductance Amplifier (OTA) Design, Output Stages, Comparator Design, Sample and Hold Circuits, Analog-to-Digital (A/D) and Digital-to-Analog (D/A) Convertors. (3 lecture hours a week.) (Credit cannot be obtained for both 88-567 and it if offered under 88-590 as a Special

Topics course.)

88-590. Special Topics

Selected advanced topics in a field of research in the Electrical Engineering. (May be repeated more than once for credit if the topics are different.) (3 lecture hours a week.)

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88-798. Dissertation

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MECHANICAL, AUTOMOTIVE AND MATERIALS ENGINEERING: COURSES

ENGINEERING MATERIALS

Course requirements for the Ph.D. and M.A.Sc. programs in Engineering Materials will be selected from the courses listed below and related courses in other programs. A student's course program will be formulated in consultation with the Graduate Studies Committee for Engineering Materials and requires approval of the research advisor and Chair of the Program Graduate Committee. Students will take no more than 2 of the 4 required courses from their supervisor(s).

All courses listed will not necessarily be offered in any given year.

89-501. Advanced Crystallography

Application of X-ray diffraction principles to the study of materials, application of Fourier series, single crystal techniques, studies of preferred orientation, imperfections. (3 lecture hours a week.)

89-502. Phase Transformations

Phenomenological treatment of transformation processes; diffusion controlled and diffusionless (martensitic) transformations; application of thermodynamic and phenomenological rate laws to transformations: nucleation, recrystallization, precipitation, spinoidal decomposition, ordering, eutectoid decomposition, etc. (3 lecture hours a week.)

89-505. Strengthening Mechanisms in Materials

Dislocation-particle interactions, strengthening by dislocation substructures, particle and fiber reinforcement, strong microstructures from the melt, strong microstructures from the solid. (3 lecture hours a week.)

89-506. Microscopy of Materials

The theoretical and technical aspects of the study of microstructure and composition of materials, optical microscopy, electron microscopy (scanning and transmission) including electron diffraction and image analysis principles, electron microanalysis, x-ray topography, field-ion microscopy, relationship of observed microstructures to the macroscopic properties of materials. (2 lecture, 2 laboratory hours a week.)

89-507. Fracture Mechanics

The fracture mechanics approach to design; physical significance of fracture toughness; measurement of fracture mechanics parameters; non-destructive inspection techniques; principles of fracture-safe design; the relation between the microscopic and macroscopic aspects of plane-strain fracture; fracture of specific metallic and nonmetallic materials. (3 lecture hours a week.)

89-510. Solidification Fundamentals

Fundamental principles of solidification theory including thermodynamics, kinetics, solid-liquid interface morphology and growth mechanics. Solidification mechanisms of pure metals. Heat flow phenomena in casting and crystal growth. Effect on solidification heat transfer of process variables, casting and mold properties, metal and mold temperatures. Students will apply the fundamentals of thermodynamics and kinetics to materials processes such as casting and welding. (3 lecture hours a week.)

89-511. Casting: Modeling and Simulation

Review of casting fundamentals. Techniques for mathematical model formulation. Development of general numerical method based on control volume finite difference scheme to predict mold filling, heat transfer, and solidification phenomena. Treatment of gates, runners, risers, and overflow. Mesh generation for full casting. Applications using commercial casting-simulation software. Students will apply their knowledge of engineering mathematics and transport phenomena to the processes of manufacturing light weight automotive components. (3 lecture hours a week.)

89-512. Metal Casting Technology

Introduction and historical overview of casting. Casting processes, mould design and materials, metallurgical simulation. Metallurgical considerations, liquid metal treatment, heat treatment, casting defects and their prevention. Discussion of challenges faced by today's foundries. (3 lecture hours a week.)

89-513. Tribology: Materials and Manufacturing Aspects

This course will prepare students to perform experimental and analytical work on the materials and manufacturing aspects of tribology. Fundamental equations of wear, wear testing methods; micromechanisms of wear, modeling of surface contacts, frictional heating during sliding contact; tribology of internal combustion engines, friction and wear during machining operations; wear control via surface coatings, coatings for cutting tools. (3 lecture hours a week.)

89-590. Special Topics in Materials

Selected advanced topics in the fields of engineered materials and materials Engineering. (3 lecture hours a week.)

Current topics include:

Creep of Metals and Alloys
Microscopy of Materials II
Wear of Materials
Composite Materials

Fatigue of Metals and Alloys
Polymers
Ceramics
Welding
Materials Degradation
Polymer Injection Molding
Thin Films and Coatings
Computational Contact Mechanics in Tribology

89-797. Thesis

89-798. Dissertation

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

Students may take courses from outside Industrial and Manufacturing Systems Engineering with permission of the Chair of the Graduate Program and the advisor.

All courses listed will not necessarily be offered in any given year.

91-500. Optimization

Classical theory of optimization. Kuhn-Tucker conditions. Unconstrained optimization; gradient methods, conjugate gradient methods, variable metric methods, search techniques. Constrained optimization. Approximation methods, projection methods, reduced gradient methods; penalty function methods; computational algorithms. Recent advances in optimization. Use of computer software packages. (Prerequisite: 91-312 or equivalent.) (3 lecture hours a week.)

91-501. Industrial Experimentation and Applied Statistics

Distributions of functions of variables, estimations and tests of hypotheses, power of tests, non-parametric tests, sampling techniques, analysis of variance, randomized blocks. Latin squares and factorial experiments. (Prerequisite: 91-327 or equivalent.) (3 lecture hours a week.)

91-502. Manufacturing Systems Simulation

Discrete-event system simulation. Random number generation. Stochastic variate generation. Input parameters; identification and estimation. Output analysis. Static and dynamic output analysis; initial and final conditions; measures of performance and their variance estimation; confidence interval. Design of experiments. Various sampling techniques. Single and multifactor designs. Fractional designs. Response surfaces. Regeneration method for simulation analysis; Monte Carlo optimization. (3 lecture hours a week.)

91-503. Production and Inventory Control Systems

Analysis of production-inventory systems. Inventory systems; deterministic, single-item and multi-item models; quantity discounts; stochastic, single-period models; periodic review and continuous review models. Production planning. Static demand models; product mix and process selection problems; multi-stage planning problems. Dynamic demand models; multi product and multistage models. Operations scheduling; job shop scheduling; line balancing. New directions in production systems research. (Prerequisite: 91-413 or equivalent.) (3 lecture hours a week.)

91-504. Advanced Operations Research I

Theory and computational techniques for solving linear and integer programming problems. Theoretical foundations of the simplex algorithm. Duality and sensitivity analysis. Network flow methods. Integer programming problems. Branch and bound methods, implicit enumeration methods, cutting plane methods. Interior point methods and other recent developments. (Prerequisite: 91-312 or equivalent.) (3 lecture hours a week.)

91-505. Advanced Operations Research II

Probabilistic O.R. models. Markovian decision process. Queueing theory. Single channel and multichannel queueing systems. Queues with general arrival and service patterns. Bulk queues and priority queues. Applications of queueing models. Probabilistic dynamic programming. (Prerequisite: 91-412 or equivalent.) (3 lecture hours a week.)

91-506. Computer-Aided Modeling of Complex Surfaces

This course provides an understanding of complex surfaces and their applications, design, mathematical modeling and manipulation techniques. It provides a mathematical foundation of sculptured surfaces, with emphasis on NURBS. Topics include: Geometric modeling, Curves and surfaces representation, B-Spline basis functions, Rational B-Splines curves, and surfaces, Construction of NURBS surfaces, Development of prototype complex surfaces using CAD software and MATLAB, and Introduction of reverse engineering of complex surfaces, modeling, manipulation and prototyping. (Prerequisite: 06-91-311 and 91-315, or equivalent.) (3.0 Lecture hours per week)

91-507. Advances in Industrial Ergonomics

Ergonomics and work design; human workload measurement in industry; visual display terminals at the workplace; signal detection and visual inspection; user-computer interaction; human factors aspects of flexible manufacturing systems; effects of individual and combined environmental stressors on human performance. (3 lecture hours a week.)

91-508. Reliability Engineering

Basic reliability distributions. Constant failure rate models-exponential reliability function, Poisson process. Time dependent failure models-the Weibull, normal, log-normal distributions. State-dependent systems-Markov analysis. System reliability-system structure function. Reliability growth testing-non-parametric methods, censored testing and accelerated life-testing. Design for reliability-specification, reliability allocation, failure analysis, system safety. Maintainability and availability.

(Prerequisite: 91-327) (3 lecture hours a week.)

91-509. Computer-Integrated Manufacturing

Development of CIM; the CIM pyramid-key functions. System integration; standards for communications-MAP. Data base as the hub of CIM-types of data base. Role of simulation and support systems-decision support systems and expert systems. Sensor technology, robot vision, and group technology. Impact of CIM. Factory of the future. (3 lecture hours a week.)

91-510. Advanced Engineering Economy

Principles and methods for engineering analysis of industrial projects and operations. Criteria for economic decisions, project investment analysis, gain and loss estimating and techniques for economic optimization under constraint are included. Emphasis is placed on the construction and use of analytical models in the solution of engineering economy problems. Elements of risk and uncertainty are included through use of probabilistic techniques. (Prerequisite: 85-313 or equivalent.) (3 lecture hours a week.)

91-511. Stochastic Processes

Stochastic processes. The Poisson process-relationship to exponential, Erlang and uniform probability distributions. Markov chains-basic limit theorem. Continuous time Markov chains - birth-and-death processes, time-dependent probabilities, limiting probabilities, relationship to the exponential distribution, uniformization. Renewal theory-limit theorems, renewal reward processes, regenerative processes, computing the renewal function. Brownian motion and stationary processes. (Prerequisite: Statistics 91-412 or equivalent.) (3 lecture hours a week.)

91-512. Manufacturing Systems Paradigms

Manufacturing systems paradigms (including DML, Batch, Cells, FMS & RMS), components, characteristics, automation, operation, planning and control. Changeability and mass customization. Integrated products/systems design, process planning, GT & CIM. Special topics: Assembly, Robotics, Inspection, Quality and Cost. (3 lecture hours a week)

91-514. Engineering Design, Methodology & Applications

Engineering Design is a creative, iterative and often open-ended process subject to constraints. Topics include: design creativity & problem solving, engineering conceptual design & embodiment design, practices for product realization design theories and methodologies, parametric design, probabilistic design, industrial design, design and manufacturing integration, concurrent Engineering, materials selection in design, design for x (e.g. manufacturing, assembly), engineering design communication. Significant time is devoted to the applications of design theories and methodologies and to a product/process design realization. (3 lecture hours a week.)

91-515. Artificial Intelligence Applications in Manufacturing

The objective of this course is to teach graduate students how artificial intelligence techniques can be applied to manufacturing operations. Detailed topics to be discussed in this course include: basic knowledge representation methods and problem solving techniques; different search algorithms; introduction to AI high level languages; introduction to the CLIPS shell; AI application in Design; AI application in Operation Management; AI application in Diagnosis; and, AI application in Control. (3 lecture hours a week.)

91-516. Computer-Aided Design (CAD)

This course will focus on computer-aided methods and applications. The lectures present basic and generic principles and tools, supplemented with significant hands-on practice and engineering applications. Various topics are studied and practiced using CAD/CAE software, such as Engineering design and the role of CAD, geometric modelling systems, representation of curves and surfaces, surface modelling, solid modelling and applications, parametric representations, assembly modelling, computer-aided engineering (CAE) and applications, distributed collaborative design, and digital mock-up. (Prerequisite: 91-311 or equivalent.) (2 lecture hours a week and 2 laboratory hours a week.)

91-517. Automotive Assembly Work Measurement

A Graduate study of manufacturing driven product designs, assembled in a human orientated workplace. Learn the science of work measurement to continuously evaluate existing designs against internal and external better practices and utilize insights gained from hands-on product teardowns in the development of innovative patentable ideas & product redesign proposals that support the lean enterprises balance scorecard. (3 lecture hours a week)

91-518. Manufacturing Systems: Modelling, Analysis and Performance Measures

This course is specifically oriented toward performance issues that arise in Automated Manufacturing Systems (AMS). The main goal of this course is to introduce efficient analytical modeling tools. Examples related to serial manufacturing systems, and Flexible Manufacturing Systems will be presented to illustrate the theory and applications of these modeling tools. The reliability and maintainability techniques are also presented and integrated in the design, the analysis and the modeling of AMS. (Pre-requisites: 91-312)(3 Lecture Hours Per Week)

91-519. Work Organization: Analysis and Design

Introduction to the applications of organization theory for the analysis and design of work organizations (industrial enterprises). Assessment and improvement of organizations through integration of social and technical systems in order to achieve organizational purpose. Fundamentals of organization structure. Classical organization theories. Group decision processes (group and individual). Organizational culture and ethics. Organizations and manufacturing technology. Management of knowledge workers. Information and communication technologies in program in organizations. Innovation and creativity, change management. Organizational accidents and errors, risk management. Impact of globalization and international environment on organizational strategies. (Pre-requisite: Graduate Standing in Engineering or Business) (3 Lecture Hours Per Week)

91-520. Engineering Applications in Health Care

Introduction to the broad range of current technological and organizational issues in health care. Overview of health care

industry. Instrumentation for medical diagnostics (biomedical sensors, medical imaging). Medical diagnostics and decision making. Information technology in health care (information systems, electronic medical records). Principles of evidence-based medicine. Medical studies and statistics. Prosthetics and orthotics. Lab automation and surgical robotics. Manufacturing in health care. Health care facilities planning and design. Quality management in health care. (Prerequisites: graduate standing in engineering, business, nursing or human kinetics; 3 lecture hours a week).

91-521. Sustainable Manufacturing

The objective of this course is to introduce students to how the environment has been affected by the activities of the manufacturing industry and how this type of impact could be measured and reduced. Students will learn to identify design and manufacturing issues related to the environment. Topics discussed in this course include sustainable development, sustainability, environmentally conscious design and manufacturing concepts and practices, recycling and reuse, material selection and compatibility, de-manufacturing and re-manufacturing, life-cycle assessment, and ISO 14000. (3 Lecture Hours Per Week)

91-522. Supply Chain Management and Logistics

This course covers the major issues associated with the management of Supply Chain and Logistics, covering both technical and managerial issues with emphasis on the analytical decision support methods and tools. Topics include supply chain network design, inventory models and theories, transportation and logistics planning, outsourcing and pricing, and case study. (Pre-requisite: 91-312 or 91-391, or equivalent) (3 Lecture Hours Per Week)

91-523. Product Innovation and Design Management

This course covers the critical factors affecting product development and innovation and identifies the common characteristics of successful new products drawing upon best industrial practice. The aim is to provide students with an understanding of the managerial and technical processes commonly involved in product development and innovation. Three main themes will be covered throughout this course: Product Design and Innovation; Idea Generation Techniques; Design and Innovation Project Management. (3 Lecture Hours Per Week)

91-524. Advanced Topics in Discrete Optimization

This course is concerned with topics in discrete optimization, particularly in integer programming theory and techniques. Topics include: Analysis of algorithms, modeling and applications of discrete optimization, dynamic programming, branch and cut, Lagrangian duality, modern meta-heuristic methods, introductions to nonlinear integer programming and stochastic (integer) programming, software for solving discrete program, advances in discrete optimization. (Pre-requisite: 06-91-312 or equivalent.) (3 Lecture Hours Per Week)

91-590. Special Topics

Selected advanced topics in the field of Industrial Engineering. (3 lecture hours a week.)

91-595. MASc Graduate Seminar

The MASc Graduate Seminar is a series of presentations by graduate students, faculty and invited speakers on engineering and research related topics and technical communication. All full-time and part-time students are required to register in it throughout their program, attend no less than 75% of all seminars, and give a presentation (normally in the final year of their degree). This course will be graded on a Pass/Fail basis. (1 lecture hour a week.)

91-695. PhD Graduate Seminar

The PhD Graduate Seminar is a series of presentations by graduate students, faculty and invited speakers on engineering and research related topics and technical communication. All full-time and part-time students are required to register in it throughout their program, and give 2 presentations. Students are required to attend no less than 75% of all seminars. This seminar course will be graded on a Pass/Fail basis. (1 lecture hour/week).

91-796. Major Paper

91-797. Thesis

91-798. Dissertation

MECHANICAL ENGINEERING

Course requirements for the Ph.D., M.A.Sc. and M.Eng. programs in Mechanical Engineering will be selected from the courses listed below and related courses in other programs. A student's course program will be formulated in consultation with the advisor and requires approval of the Graduate Studies Committee for Mechanical Engineering and the Chair of the Program Graduate Committee.

With the permission of the advisor and Department Head (and under consultation with the Graduate Coordinator), Mechanical Engineering courses with numbers greater than 449 only and related to the graduate field of study may be taken for graduate credit for students enrolled in the M.A.Sc. and M.Eng. programs. Not more than one undergraduate course (numbered greater than 449 only) shall count as credit towards the course requirements for the M.A.Sc. or M.Eng. degree. These courses are not available for course credit towards the Ph.D. degree.

In the case of M.Eng. students, the Chair of the Graduate Committee assumes the role of the advisor.

92-503. Turbulent Flow

General turbulence theories, wall turbulence and free turbulence. (3 lecture hours a week.)

92-506. Thermal Systems Design

Advanced systems design requiring the application of economics, heat transfer, simulation and optimization. (3 lecture hours a week.)

92-507. Experimental Techniques in Flow Measurements

A course covering the theory of flow and velocity measurement. Emphasis will be placed on hot wire instruments and turbulence measurements. (3 lecture hours a week.)

92-509. Multiphase, Multicomponent Flows

A thorough treatment of the basic techniques for analyzing one-dimensional multi-phase, multicomponent flows in order to predict flow regimes, pressure drop, etc. Practical applications in fluidization, sedimentation and boiling heat transfer. (3 lecture hours a week.)

92-516. Industrial and Motor Vehicle Noise

Hearing damage risk criteria and in-plant noise regulations; determination of permissible exposure levels due to continuous and intermittent noise. Measurement of machine noise and standard procedures. Fundamentals of noise control. Characteristics and levels of motor vehicle and traffic noise; motor vehicle noise control legislation and standard procedures for measurement. (3 lecture hours a week.)

92-517. Automotive Applications for Noise, Vibration and Harshness Evaluation

This course introduces the automotive applications and tools for the evaluation of noise, vibration and harshness. It includes reviews of measurement techniques presently used in the automotive industry to measure various aspects of noise, including the concept of sound quality, vibration and the quantification of the term harshness. The course consists of a review of papers which are to be presented to the class. Participants perform critical reviews on the presentations. Three lecture hours per week. Course evaluation is based on weekly reports, presentations of reviews of papers and critical reviews by participants. (3 lecture hours a week.)

92-530. Combustion Engineering

An introductory graduate course on combustion engineering, covering a broad range of topics of importance to the field including chemical thermodynamics and kinetics, flames and combustion rates, and detonation of gaseous mixtures. The emphasis is on the understanding of the combustion processes involved in practical systems. (Antirequisite: 92-590-01.) (3 lecture hours a week.)

92-531. Numerical Heat Transfer and Fluid Flow

This course is concerned with the ability of using numerical methods to predict heat transfer, fluid flow and related processes. The course consists of an introduction to Computational Fluid Dynamics, descriptions of the general governing differential equations, discretization methods for the differential equations, numerical simulation of conductive heat transfer, numerical treatment of convection and diffusion and calculations of flow fields. (Antirequisite: 92-590-02.) (3 lecture hours a week.)

92-532. Modeling of Thermo-fluid Systems

This course will cover the basic types of mathematical models that are used to describe Thermo-fluid systems. Lumped as well as distributed parameter models will be considered with analytical as well as numerical methods of solution. Modern solution tools such as Simulink, Maple, Fluent and Wave will be utilized whenever appropriate. The topics to be considered may include but are not limited to: two-phase flow, transient flow, turbulence, non-newtonian flow, boiling, evaporation, condensation and fluid-structure interaction. (Antirequisite: 92-590-07.) (3 lecture hours a week.)

92-533. Turbulent Reacting Flows

This course will cover the following topics: experimental investigation of flames, thermodynamics of combustion processes, transport phenomena, chemical kinetics, reactions mechanism, laminar premixed and diffusion flames, the Navier-Stokes equations for the reacting flows, turbulent premixed and non-premixed flames, low temperature oxidation and engine knock, and pollutants formation. (Antirequisite: 92-590-08.) (3 lecture hours a week.)

92-534. Introduction to Computational Fluid Dynamics

This course is intended to provide basic knowledge required to initiate research or applications in computational fluid dynamics. Topics include: numerical methods for model hyperbolic, parabolic and elliptic equations; analysis of difference schemes; numerical stability; explicit and implicit methods; artificial viscosity; linearization techniques; approximate factorization; preconditioning, iterative solutions, successive over-relaxation (SOR), successive line over-relaxation (SLOR), alternating direction implicit (ADI); two-dimensional structured grid generation; introduction to finite volume method. (Antirequisite: 62-577.) (3 lecture hours a week.)

92-535. Advanced Topics in Computational Fluid Dynamics

This course is a continuation of 92-534. Advanced topics in computational fluid dynamics (CFD) will be discussed, including: structured and unstructured grid generation on surfaces and three-dimensional; Navier-Stokes and Euler solvers; applications of finite volume method; turbulence modeling; current issues in CFD. Students will carry out project work using one or more commercial CFD packages. (Prerequisite: 92-534.) (Antirequisite: 62-587.) (3 lecture hours a week.)

92-536. Fundamentals Of Clean Engine Technology

This course focusses on the understanding of fuel properties, combustion processes, exhaust emissions, and pollution prevention in diesel and other lean-burn IC engines. Introduction to Stirling and other external combustion engines.

92-540. Applied Finite Element Analysis

This course focuses on the modeling aspects of the finite element method using three well known commercial Finite Element Analysis (FEA) software packages known as DYNA, IDEAS and ANSYS. A variety of stress analysis problems in two and three dimensions are studied and the accuracy of the simulations are assessed through comparison with available

theoretical and experimental results. Both static and dynamic situations are covered. The students are expected to prepare a final report summarizing their work and an oral presentation. (Antirequisite: 92-590-03.) (3 lecture hours a week.)

92-541. Introduction to Vibration Measurement and Modal Analysis

This course is concerned with basic concepts of modal theory, basic modal parameter analysis, single degree of freedom methods, introduction to frequency response functions, general modal analysis and multiple degree of freedom and global methods. The accuracy of Fast Fourier Transforms (FFT) and windowing, FFT analysis options, zoom, coherence and quality assessment, relationship to finite element modeling will also be considered. In addition, basic measurement techniques, calibration techniques, transient and steady state excitation techniques, general frequency response function interpretation, case study (laboratory experiment) and validation of measured and analyzed data are studied. (Antirequisite: 92-590-04) (3 lecture hours a week.)

92-542. Advanced Topics in Mechanical Design

The topics discussed in the course will be selected from the following: design and analysis of mechanical details such as welded and bonded joints, minimum constraint design, fluid power systems, mobile hydraulic systems, project planning, optimization, decision making methodology, ISO/QS9000 quality methods, concurrent engineering, design reports, design reviews, design for manufacture and assembly, design for quality, configuration design, design for minimum cost, parametric design, developing size ranges for families of products, geometric dimensioning and tolerancing, Taguchi methods, manufacturability and serviceability considerations and product warranties. (Antirequisite: 92-590-05.) (3 lecture hours a week.)

92-543. Product Design and Development

This course covers the process of new product creation including topics selected from: the product development team; the product development cycle; conceptual development; models including technology push products; platform products; process-intensive products and customized products; needs analysis - identifying the customer and their needs; establishing product specifications; concept generation; concept selection; product architecture; industrial design and ergonomics; prototyping; economics of the development process and project management. (Antirequisite: 92-590-06.) (3 lecture hours a week.)

92-544. Finite Element Methods for Crashworthiness and Impact Analysis

The topics include a brief history on the use of numerical tools in automotive/impact field, Explicit and Implicit time integration techniques, Shell and Solid finite element formulations for impact analyses - advantages and disadvantages, Zero Energy Modes (Hourglassing) and Hourglass control, Material modeling for large displacement problems, Finite element modeling for contact, Mesh Adaptivity, Arbitrary Lagrangian and Eulerian Meshes for large deformation problems, Use of implicit integration techniques for impact problems, Quasistatic simulations as well as the development of finite element models for impact analyses. (Antirequisite: 92-590-12.) (3 lecture hours a week.)

92-545. Automotive Control Systems

This course will address advanced control design techniques for automotive systems. The interdisciplinary goal of this course is to present the application of control system design to engine operation and vehicle mechanics as well as the approaches for parameter/model identification and estimation of automotive systems. For graduate students in electrical engineering, this course will make it possible for them to access automotive models and to understand engine dynamics, both for the purposes of applying control design techniques. For graduate students in mechanical engineering, this course will provide a chance for them to learn how to apply advanced control design strategies to automotive systems. It is expected that, after taking this course, graduate students from both engineering fields will be able to address automotive control problems from interdisciplinary point of views and to complement expertise in their own areas. (Prerequisite: 92-412.) (Antirequisite: 92-590-22) (Cross-listed with 88-536.) (3 lecture hours a week.)

92-590. Directed Special Studies

A special course of studies with content and direction approved by the student's chief advisor. Although there may not be formal lectures, the course will carry the weight of three lecture hours.

92-593. Introduction to Finite Element Analysis

This course covers the fundamentals of the Finite Element Analysis (FEA) with emphasis on solid mechanics and stress analysis. The subject of finite elements is treated using variational principles such as the principle of virtual work and total potential energy. The course deals with a variety of structural components such as springs, axially loaded bars, beams under bending, two-dimensional/axially symmetric/three-dimensional continuum elements and their formulation is static and dynamic analysis. In addition to three hours of lecture, a two-hour computer lab is mandatory where the students use different commercial FEA software. (Antirequisite: 62-593) (3 lecture hours a week and 2 laboratory hours a week.)

92-595. MASc Graduate Seminar:

MASc Graduate Seminar is a series of presentations by graduate students, faculty and invited speakers on engineering related topics, including but not limited to research, development, commercialization, management and leadership. All full-time and part-time MASc students are required to complete 36 hours of graduate seminar classes and give one seminar presentation in the MASc Graduate Seminar course during each of his/her graduate degree programs in Mechanical Engineering. Part-time students who are not able to take the MASc Graduate Seminar course have to take an additional 3-credit graduate course approved by his/her degree supervisor(s), if necessary, to fulfill the overall credit requirement for the degree. This seminar course will be graded on a pass/fail basis. (1 lecture hour/week)

92-695. PhD Graduate Seminar

PhD Graduate Seminar is a series of presentations by graduate students, faculty and invited speakers on engineering related topics, including but not limited to research, development, commercialization, management and leadership. All full-time and part-time PhD students are required to complete 36 hours of graduate seminar classes and give two seminar

presentations in the PhD Graduate Seminar course during each of his/her graduate degree programs in Mechanical Engineering. Part-time students who are not able to take the PhD Graduate Seminar course have to take an additional 3-credit graduate course approved by his/her degree supervisor(s), if necessary, to fulfill the overall credit requirement for the degree. This seminar course will be graded on a pass/fail basis. (1 lecture hour/week)

92-796. Major Paper

92-797. Thesis

92-798. Dissertation

MECHANICAL ENGINEERING (AUTOMOTIVE FIELD)

85-500. Special Topics in Automotive Engineering

Selected advanced topics in the field of automotive engineering.

85-511. Bluff Body Aerodynamics

Atmospheric boundary layers. Flow around bluff bodies, separation and wakes. Lift and drag, pressure and force coefficients. Streamlined bodies, bluff bodies. Flow over flat plates and walls, rectangular prismatic shapes, circular cylinders. Fluctuating forces and pressures on bluff bodies. Wind tunnel testing, similarity requirements, wind tunnel techniques. Vehicle aerodynamics, drag and lift of passenger cars, cross wind stability, wind tunnel and road testing. Architectural aerodynamics, design wind speed, flow in and around building, wind-induced response of low-rise buildings, tall buildings, and large roof and sports stadium. Aerodynamics of Wind Turbines. (Pre-requisite: Undergraduate level Engineering Mechanics, Fluid Mechanics.)

85-529. Automotive Paint and Industrial Coatings

This course covers: functionality and application methods of automotive coating layers, concepts in polymer chemistry and suspensions, automotive coatings formulation, application of coatings by dip and spray processes, curing of coatings after application, appearance measurement and durability testing. Concepts of adhesion, corrosion resistance and surface pretreatment will also be covered. Powder coating and coating plastics. Each student will complete a literature review of a topic in coatings. (Anti-requisite: 93-590 Pollution Prevention in Manufacturing.)

85-591. Engineering Venture Formation

Designed for students who choose entrepreneurship as a career option, this course is an in-depth study of the process of drawing the blueprints for a new enterprise including: developing business ideas, developing business concepts, conducting feasibility studies, choosing a legal form or business, writing business plans, identifying and approaching sources of money, raising funds, and putting together a package of resources to start an enterprise. (Anti-requisites: 75-491.)

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Programs	ENGLISH: COURSES
Programs (Listed Alphabetically)	All graduate courses are seminars. Enrolment is limited in these courses, because considerable contribution is expected from each member of the seminar. For such courses, the corresponding undergraduate survey course, or an acceptable equivalent, is ordinarily a prerequisite. This condition may be waived only by agreement of both the program coordinator and the professor offering the seminar. The specific topics of individual courses may vary, depending upon the interests and needs of professors and students. It is thus impossible to list in detail the many topics that may from time to time be offered. The schedule below lists only the major periods or forms of literature in which special topics courses may be available.
Programs (Listed by Department)	Special topics courses having the same course number may be taken more than once providing the course content is different and with the permission of both the program coordinator and the professor offering the course. More than one seminar or course numbered in sequence in any of the listed areas may be offered in a given term.
Programs (Listed by Faculty)	In the Fall term each year, the Department of English publishes a Graduate Handbook giving complete information as to specific topics of the courses to be offered in the upcoming academic year, with texts, reading assignments, and other details about requirements of the course, wherever possible. Students are welcome to write to or call the office for a copy of this handbook.
Graduate Diploma Programs	Not all of the following areas will necessarily be represented by course offerings in any one year.
Courses	26-500. Scholarship and the Profession
Alphabetical by Department	26-501. Tutorials
Admission Information	26-505. The English Language and Linguistics
Application Information	26-510. Literature of the Old English Period
Awards and Financial Aid	26-515. Literature of the Middle English Period
Registration	26-520. Literature of the Renaissance
Academic Regulations	26-525. Renaissance Drama
Faculty Regulations	26-530. Literature of the Restoration Period
Additional Degrees	26-535. Literature of the Eighteenth Century
Exam and Grading Procedures	26-540. Literature of the Romantic Period
Authorship and Plagiarism	26-545. Literature of the Victorian Period
Graduation	26-550. Literature of the Twentieth Century
Faculty of Graduate Studies	26-555. Literature of the United States
Graduate Faculty Designation	26-560. Literature of Canada
Calendars	26-565. Post-Colonial Literature
Undergraduate Calendar	26-570. Literary Genres: Poetry
Previous Calendars	26-575. Literary Genres: Drama
Course Numbering System	26-580. Literary Genres: Fiction
Research Institutes	26-585. Literary Genres: Criticism/Cultural Studies
Statement of Responsibility	26-591. Creative Writing Seminar A
Statistics Canada Disclaimer	The Creative Writing Seminar A is the capstone in Windsor's English program in Creative Writing. Its aim is to assist you, who have been chosen to participate in it as highly talented serious students, to become writers of distinction. The seminar will be run primarily as a workshop, where we read and discuss work-in-progress. There will also be occasional assigned reading and writing exercises, and guest speakers, for your challenge and inspiration.
Notice of Disclosure, Confidentiality and Use of Personal Data	26-592. Creative Writing Seminar B
Main University Secretariat	The Creative Writing Seminar B is a continuation of Seminar A as the capstone in Windsor's English program in Creative Writing. (Pre-requisite: 26-591 or portfolio approval).
	26-596. Composition Pedagogy: Theory and Practice (Required for Graduate Assistants assigned to teach 26-100.)

26-794. Creative Writing Project

26-797. Thesis/Project

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FACULTY OF SCIENCE

(Great Lakes Institute for Environmental Research (GLIER))

ENVIRONMENTAL SCIENCE: COURSES

68-550. GLIER Multidisciplinary Graduate Seminar

This course will be team-taught by core GLIER faculty who will be responsible for organizing seminar modules in their area of research expertise. Modules will include external speakers and encompass lectures and discussions utilizing a multidisciplinary approach to environmental research, and its role in developing ecosystem-based management decisions that affect large lakes and their watersheds. Students are expected to participate in discussions, prepare and deliver critiques of seminars, and present a seminar. (Required of all GLIER graduate students.) (2 hours per week for 2 semesters.) (6.0 credit course.)

68-570. Environmental Research Proposal

A course aimed at developing proposal and grant writing skills for the academic environment. Students will prepare an original research proposal based on their research topic and defend it publicly. Students will engage in grant writing exercises, developing skills typical of those required by major funding agencies. Effective oral presentation skills will be developed. (Required of all M.Sc. students.) (2 hours per week.) 3.0 credit course.)

68-680. Multiple Stressors and Environmental Modelling

A course aimed at developing an understanding of the nature of interactive, multiple stressors on large watersheds and lakes. Stressors considered will include chemical contaminants, nutrient enrichment, species invasions, climate change, population harvesting and land use changes. Students will model and gain appreciation for how single and interactive stressors affect large lakes and their watersheds, and how confounding issues can be isolated and explored. Students are expected to prepare and participate in critiques of the published literature, and contribute an original essay that explores these issues. (Required of all GLIER Ph.D. students.) (2 hours per week.) (3.0 credit course.)

68-797. Thesis

68-798. Dissertation

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FACULTY OF GRADUATE STUDIES: GENERAL COURSES

The Theory and Practice of University Teaching

This is an introductory course designed for graduate students to enable participants to perform more effectively as university teachers, as seminar leaders, as in-service trainers, and as public speakers. Empirical principles of learning and teaching will be introduced that are appropriate to the university classroom. Educational research will guide the approach taken in the course and will be used as the theoretical basis for course content. This course is a non-credit course and, upon successful completion, will appear on the student's transcript.

The following course will be open to students in various disciplines.

01-500. Current Issues in Argumentation Theory

This course will introduce students to the current leading theories and theoretical controversies in argumentation theory. It will do so from a variety of perspectives, including the logical, the dialectical and the rhetorical. It will cover such topics as rhetorical vs. epistemic uses of argument, the use of ideal models in argumentation analysis, the current state of fallacy theory, relations of argumentation theory to other fields, such as law, computer science, philosophy. Prerequisites: This graduate course requires that the student have completed an undergraduate degree. Normally, the student will have completed at least two undergraduate courses in such areas as logic (formal or informal), critical thinking, argumentation, theory of argument, rhetoric, or dialectic. (Prerequisites: permission of instructor.)

The following course is offered through the Humanities Research Group and the Office of the Dean of the Faculty of Graduate Studies.

09-599. Interdisciplinary Master's Seminar

This course will offer graduate students in English, History, Philosophy, Political Science, Psychology, Sociology, Visual Arts, and any other graduate program with a humanities component, the opportunity, in the course of their intensive, discipline-oriented training, to benefit from an interdisciplinary experience. Topics will vary from year to year (Offered over two terms.)

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Particular attention will be paid to the role of narrative, the place of the social sciences, and the complexities of race, gender, ethnicity, and class in historical writing. Readings will also address the problem of synthesis, post-modernism and the relationship between history and public policy. This course also stresses the development of skills in critical reading and analytical writing.</p> <p>43-504. Research Methods This course introduces students to the range of methods and approaches to historical research, and to the problems associated with interpreting various kinds of sources. Students will identify and establish a research problem, in which they define the questions to be posed, and begin to move from broad to narrow approaches to their topic. They will discover and evaluate accessible sources of evidence, and at the same time develop an appropriate methodological and interpretive framework for a specific research project.</p> <p>43-506. Studies in the History of Sexuality This course will provide a thematic approach to the foundations of Western attitudes towards sexuality, especially as they developed in premodern Europe. The complex interweaving of ancient ideas, medicine, Christian law and theology, and popular practices and beliefs will be explored. This course is problem oriented and will explore some of the theoretical issues pertaining to the historical study of human sexuality.</p> <p>43-507. Studies in the History of Women and Gender This course examines the historiography and theory of these two interrelated fields since 1970. It explores the themes and approaches in early studies of women's organizations, labour, and sexuality; the later growth of attention to differences of culture and power among women; and the more recent emergence of poststructuralism and the study of the interrelation of gender, class, and race. Readings will range across time periods and national boundaries but with an emphasis on the U.S. literature.</p> <p>43-508. Studies in the History of the Book and the Culture of the Written Word This course will provide an introduction to the historical problems encountered and interpretive possibilities revealed when books (both artefacts and texts) become the focus of inquiry. Ranging broadly through a variety of disciplinary approaches to manuscript and print cultures on both sides of the Atlantic, we will consider such questions as the complex uses of literacy, and the extent to which technological transformations such as the printing press or the computer have determined literary and cultural change. Studies of the book trades (printing, bookselling, journalism, publishing of all kinds) will be used to illuminate changes in religious, scientific, scholarly, literary and other aspects of the cultures (from medieval to postmodern) in which they flourish.</p> <p>43-509. Studies in Canadian Social History The course discusses approaches, methods, and debates in the writing of social history in English Canada since 1970. Topics discussed include historiographical debates over the writing of a "national" history, the writing of labour and working class history, women's history, ethnic and immigration history, the history of sexuality, regional history, and family history. How the categories of class, gender, race, ethnicity and sexuality have been incorporated into the writing of Canadian social history is a focus of consideration.</p> <p>43-510. Studies in Postcolonial History This course evaluates important works of history and theory written from a postcolonial perspective. It focuses on novel approaches to studying people whose modern experience began as subordinate subjects of the West's colonizing projects. The course will also consider the influence of postcolonial scholarship on contemporary historiography in general. (2 lecture hours a week.)</p> <p>43-511. Modernity This course addresses themes in the history of modernity, the lived experience of the capitalist, scientific and technological revolutions over the last three hundred years. Focusing primarily on the years from 1800-1950s, this course will begin with literature on the contemporary ideas of "being modern" in North America and Europe and the critiques of modernity by social theorists such as Marx, Gramsci and Weber. It will then turn to the historical literature on modernity, ideas of the modern and their impact on areas such as politics, the state, the workplace, economic development, education, colonial relationships, the environment.</p> <p>43-513. Class in the Anglo Atlantic This course addresses the ways in which the concept of class has influenced our understanding of the past, particularly in relation to the history of working people. It reviews the "new" labour history that emerged in British and North American history beginning in the 1960s, and documents the ways in which the history of identities (race, ethnicity and gender) and postmodernism have impacted the study of class. The course examines the rise of capital and labour from their roots on the farm and plantation and in the craftshop through to modern industrial society and the contemporary effects of deindustrialization and globalization. The course furthermore scrutinizes not only the <i>history</i> of that experience but also the <i>theoretical</i> and <i>historiographical</i> content of class studies. (2 lecture hours a week.)</p>
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43-597. Selected Topics in History

43-598. Selected Topics in History

43-796. Major Paper

A sophisticated scholarly essay, normally amounting to some 40-60 pages, incorporating research on primary sources (in most cases), and written under the supervision of two members of the graduate faculty, a supervisor and a second reader. There will be a public oral examination. Students are advised that they may be required to have proficiency in a language other than English in order to do their research.

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Programs (Listed Alphabetically)	All courses listed will not necessarily be offered in any given term. All courses are three hours a week unless otherwise noted.
Programs (Listed by Department)	95-500. Sport Leadership A survey course using the current research and literature relating to leadership in administrative environments. Several leadership theories will be reviewed and analyzed. Various models of leadership will be discussed relative to the sport administration environments.
Programs (Listed by Faculty)	95-501. Legal and Human Rights Issues in Sport Management An analysis of the research and professional practice related to the role of legislation and litigation as they relate to sport and physical activity programs and services and participation. Specific emphasis will be placed on the issue of human rights, covering topics including legislation and case study analyses from the sport management domain.
Graduate Diploma Programs	95-502. Organizational Behaviour in Sport Organizations An analysis of the interdependent nature of the social/psychological components of organizational behaviour. Special reference will be made to individual and group behaviour in terms of the organizational effectiveness of sport organizations.
Courses	95-503. Sport Marketing An analysis of the research and literature related to the marketing of sport and physical activity programs and services. Specific emphasis will be placed on the review and application of sport marketing research, an overview and application of the related marketing terms and the development of a marketing plan for a sport organization.
Alphabetical by Department	95-504. Advanced Topics in the Psychology of Sport & Exercise An analysis of the research and literature related to the psychological phenomena influencing the participants in the sport and exercise situation. Topics include specific sport/exercise intervention techniques, measurement issues and social psychological aspects of sport and exercise.
Admission Information	95-505. Social Issues in Sport Management Sport managers operate within a social world. This course examines current social issues and their implications for sport managers. Issues include the impact of various institutions on sport management (e.g., sport, government, economics, media, education), as well as the relationship between sport management and various power relations in society (e.g. race, gender, class, age, and physical ability).
Application Information	95-506. Crises, Politics and Commercialism in the Modern Olympic Movement This course focuses on two dimensions: (1) the study of three persistent problems and issues surrounding the history of the Modern Olympic Movement (crises, politics, commercialism), and (2) individual independent research on a course-related topic for which the greater amount of evidence exists in primary documents housed in various regional archives.
Awards and Financial Aid	95-507. Quantitative Analysis in Kinesiology The course introduces students to some of the most commonly employed statistical techniques in kinesiology. The content requires a basic background of elementary statistics and mathematical principles. Through classroom discussions, hands-on computer exercises and assignments, students are expected to develop essential understanding of quantitative data analysis techniques and provide interpretations and draw conclusions based on statistical findings drawn from those analyses. (Pre-requisite: Kinesiology Master's Student)
Registration	95-508.- Strategic Management in the Sport Industry This course integrates and applies academic work studied throughout the graduate Sport Management curriculum. More specifically, it is concerned with the work of the general manager who is responsible for the overall success of the organization. Emphasis will be placed on developing skills for diagnosing and critically analysing complex problems occurring at the organizational level, as well as proposing and implementing realistic solutions to such problems within sport organizations.
Academic Regulations	95-510. Special Problems Independent study conducted under the advisement of a graduate faculty member. This course cannot be used as a review of literature for thesis. (Prerequisite: consent of program committee.)
Faculty Regulations	95-511 Group Dynamics in Sport and Exercise The course examines the psychological factors influencing sport and exercise behaviours from a group dynamics perspective. Emphasis is placed on understanding the theoretical constructs and empirical research underlying an individual's involvement in group settings and familiarizing the student with salient group measurement issues. Topics include the impact of cohesion, group leadership, collective efficacy, and group norms in the context of sport and exercise.
Additional Degrees	95-521. Exercise Rehabilitation This interactive graduate level course is designed to intentionally link theory and practice on topics related to exercise rehabilitation, including exercise prescription and adherence, coronary artery disease and associated risk factors, and other special populations.
Exam and Grading Procedures	95-522. Instrumentation and Modeling in Kinesiology
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This course will be designed to expose students to methods and instruments used to collect and process data in Kinesiology research. In addition, the course will expose students to examples of modelling approaches used to represent the nervous system, muscle force generation, musculoskeletal structure and the cardiopulmonary system.

95-523. Applied Biomechanics of Human Performance

This seminar/lecture course will focus on the application of biomechanics concepts and measurement techniques in the study of human performance. Specific topics will reflect the interests of students and may include areas such as sports, locomotion, activities of daily living, and equipment testing and design.

95-524. Biomechanics in the Work Place

This seminar/lecture course will focus on applications of human performance biomechanics in the work place. Special emphasis will be placed on theoretical and practical methods of assessing work place efficiency and effectiveness while considering the comfort and safety of the worker.

95-525. Motor Skill Acquisition

This seminar/lecture course will examine the learning processes involved in skill acquisition by novice and experienced learners in a variety of contexts. In lab/field settings students will carry out task analysis and acquire movement observation/analysis skills.

95-526. Motor Control of Human Performance

This seminar/lecture course will examine the perceptual, cognitive, and neurophysiological aspects of human motor control. Different theoretical and methodological approaches will be examined and applied to the understanding of functional movements in the home, workplace, and sporting environment. Changes in the control of movement in special populations will also be examined.

95-527. Physiological Responses to Human Movement Demands

This seminar/lecture course will examine the acute response and chronic adaptive nature of selected physiological systems directly related to human movement. Specific topics will reflect the interests of students and may include areas such as temperature regulation and fatigue as well as current topics of interest in human movement.

95-528. Neuromuscular Physiology

This seminar/lecture course will examine fundamental concepts of the neuromuscular system as they relate to movement, exercise and sport. Special emphasis is placed on physiological adaptations of the neuromuscular system as a result of acute (exercise, fatigue, training) and chronic (age, disease) perturbations.

95.529. The Physiology of Sex Differences in Sport, Exercise and Health

The intent of this course is to examine the innate physiological differences that may or may not be responsible for the sex based differences in athletic and exercise performance and health. Specific attention will be given to the role of endogenous sex hormones, their changes across the lifespan and the physiological systems relevant to exercise that they may or may not modify.

95-562. Research Methods

A review and appraisal of qualitative and quantitative research methods with special reference to design, data collection, analysis and generalization.

95-590. External Graduate Course

(Must be a course approved by the Faculty of Graduate Studies and Research).

95-595. Selected Topics

Topics developed by individual faculty members, based on new developments in a particular area of study. (Subject to Kinesiology Council approval.)

95-692. Independent Study

An independent study conducted under the guidance of a graduate faculty member. The student will engage in research on a discipline relevant issue, using relevant data set(s), leading to the production of a final project. This course cannot be used as a review of literature for dissertation. (Prerequisite: consent of the instructor)

95-695. Doctoral Seminar

Using an inter-disciplinary modular approach, this seminar will provide doctoral students with a background in a variety of theoretical and methodological frameworks that are relevant to the practice of Kinesiology research. Topics presented will reflect students' research backgrounds and interests. The seminar will emphasize the connections between theory and method, and prepare students to develop methodological and theoretical frameworks for their own doctoral research. Through the seminar, we aim to prepare students to become reflexive members of a scholarly community through focused, intellectual discussion and inquiry, as well as through the development of specific skills such as preparing conference proposals, submitting research grants and submitting writing for publication. This course will be graded on a PASS/FAIL basis. (Doctoral students must register in this course a total of six semesters during the Fall and Winter terms of full-time registration.)

95-698. Community Internship

The purpose of the Ph.D. in Kinesiology Internship is to fully complement the program's focus on community, which is used as broadly as possible. The goal is to increase awareness of the impact that this program can make on the global and local communities. The expectation is that this would occur in either year 2 or 3 of the program and would consist of 120-160 hours of work within any community-based organization. The product of the internship can take many forms (e.g.) a review paper, a seminar, a conference presentation, an organizational efficiency analysis, or a combination of more than one of

these items. The specific product that the student is responsible for will be established in writing within the first 30 hours of the internship experience. This course will be graded on a PASS/FAIL basis.

95-795. Internship

(See Graduate Internship Handbook.)

95-797. Thesis

95-798. Dissertation Research

Students work with a supervisor and committee to develop and implement an original research investigation. The results will be embodied in a professionally organized and written dissertation conforming to the requirements outlined in the Department's Ph.D. Program Details Manual and by the Faculty of Graduate Studies. The dissertation is expected to be of the highest quality and suitable for publication (graded pass/fail).

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MASTER OF LAWS (LLM) - COURSES

98-510. Research Methods

Through this required course, and in view of writing the LLM thesis, students will focus on developing research questions, elaborating appropriate methodological approaches for their graduate research (i.e. the Master's thesis), preparing a research agenda, creating a literature review, and on creating a written report of their research findings. The central part of the course will place emphasis on learning contemporary methodological approaches to legal scholarship. Although the research methods discussed may vary from year to year, doctrinal (case-based), qualitative, and historical research methods will be examined. Students will also develop ethical and interdisciplinary approaches to academic legal research and advanced library research skills. (6 credits, 2-term course.) (Open only to LLM students.)

98-520. Legal Theory

Drawing from continental and analytic writings manifesting social contextual, historical, anthropological, and philosophical perspectives, this course will, in particular, examine issues surrounding the relation of legal orders to outsiders, the social-cultural context of the nature of a law, the nature of legal obligation and the boundary of law as a discourse.

98-530. Graduate Seminar

An adjunct to the LL.M Research Methods course, the Graduate Seminar will provide a forum in which students can discuss their ongoing research and present portions of their work for feedback from the course director and their peers. The seminar will convene for the equivalent of 1hour/week, every other week, over the course of the fall and winter semesters (12 hours total).

98-540. Law Teaching in the Diverse Classroom

This course will examine theory and techniques for engaging with controversial topics in the law school class setting. Through this course, students will focus on learning, and evaluating critically, different approaches to teaching in classroom settings that require cultural competence and other diversity competencies. This course will focus on understanding how student learning is influenced by individual experiences, gender, language, culture, family and community. Students will also work on developing their own approaches to teaching in such settings. This course serves to complement the LL.M student's learning experience in the University Teaching Certificate Program (or equivalent) by offering exposure to issues related specifically to law teaching. (Prerequisite for students in the teaching stream: completion of UTC lesson plan exercise in the UTC course "Learning Centred Teaching in Higher Education") (1.5 credit)

98-797. Thesis

The central component of the program's requirements is the completion of original publishable research. A major written piece of original research, the thesis may be submitted as one single document or as a set of publishable articles totalling approximately 100-125 pages in length

98-852. Administrative Law This course examines the work of governmental administrative actors and the underlying tensions involved in holding administrative actors accountable through the courts. Students will develop an understanding of how administrative tribunals and agencies function through an exploration of select statutory regimes and examine current common law doctrines of administrative law. Central among these doctrines are those relating to the duty of procedural fairness owed by administrative actors and to the substantive review of their decisions by the courts. Students will also consider how the Canadian Charter of Rights and Freedoms and the rights of Indigenous peoples interact with administrative law. By the end of the course, students will have knowledge of the debates and practical tools involved in modern administrative law. 4 credits

MASTER OF SOCIAL WORK AND JURIS DOCTOR (MSW/JD) - COURSES

98-930. Law and Social Work: Advanced Practice Research Methods and Policy Analysis

This course prepares students to use the practitioner-researcher model in the analysis of social policy, as it relates to law, in Canada. This model includes problem formation, qualitative and quantitative research design, data analysis and interpretation, and the dissemination of findings. Students will learn to apply specific analytic frameworks and theories, drawn from law and social work, to issues of Canadian social policy. In addition, students will learn essential elements of program evaluation including needs assessment, program logic models, implementation and process evaluations, and impact evaluations. Particular attention will be given to the implications of social policy for vulnerable and oppressed populations. Credit Weight 4.0. (Crosslisted with Social Work 47-625).

98-931. Advanced Seminar in the Theory and Practice of Social Work and the Law

This seminar focuses on the intersection of law and social work in theory and practice. It will prepare students to think critically about the interrelationship between law and social work, both as disciplines and professions, and to identify and analyze theoretical and substantive areas of compatibility and tension. The challenges of interdisciplinary practice will be considered, with a particular emphasis on ethical norms and the advancement of social justice. (Open to MSW/JD students only, or with the permission of both program areas.) (Credit Weight 4.0. Cross listed with Social Work 47-626).

98-932. Externship Seminar: Learning in Place

This course runs simultaneously with the Externship Placement. In this course, students will be introduced to basic ethical and professional expectations of work in a law-related environment, reflective practice, bias and use of self, and creating and maintaining workplace relationships. Through subject-specific placements, including but not limited to Judicial Internships, Community Development & Systemic Advocacy, Indigenous Legal Traditions & Aboriginal Law, Immigration and Refugee Law, and Child Protection, students will pursue more focused readings and discussions related to a specific area of law and practice (Co-requisite: 98-333.)

98-933. Externship Placement

The Externship Placement is part of Windsor Law's Externship Program, offered simultaneously with the integration seminar, "Learning in Place". Placements occur in a wide variety of law-related settings and will expose students to a range of competencies important for legal work. Placements will vary from term to term, and will be governed by a set of learning outcomes. Student-specific competencies aligned with the learning outcomes are developed by the student, on-site supervisor and academic supervisor. Students will be expected to develop a Learning Agreement describing these competencies and plan to meet them over the term. Placements share an overarching commitment to, and analysis of, the operation of access to justice. (Co-requisite: 98-932.)

98-962. Indigenous Legal Traditions

This seminar course will examine Indigenous Legal Traditions in what is now called Canada, and engage with the various reports of the Truth and Reconciliation Commission of Canada, including the ninety-four Calls to Action. The course is grounded in the legal traditions and processes of Indigenous Peoples practiced by Indigenous Peoples both prior to European contact and continues today. The course will also examine the historic relationship between Indigenous Peoples and the Euro-Canadian state – including, the application of colonial law and policy aimed at extinguishing Indigenous Peoples languages, cultures and legal traditions. The course will examine the contemporary view of Indigenous Peoples' methods, practices and models of revitalization and restoration of Indigenous legal traditions.

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Functions of a Real Variable I Lebesgue measure, abstract measure, integration, monotone and dominated convergence theorems, Radon-Nikodym theorem, Hahn decomposition theorem, Fubini's theorem, L_p spaces.</p> <p>62-511. Functions of a Real Variable II Metric spaces, topological spaces, compactness, Stone-Weierstrass and Ascoli theorems, Baire category theorem, classical Banach spaces.</p> <p>62-512. Functional Analysis I Normed linear spaces and examples, Hahn-Banach theorem, open mapping theorem, principle of uniform boundedness, weak and weak* topologies on Banach spaces, Hilbert spaces and bounded linear operators on Hilbert spaces.</p> <p>62-513. Functional Analysis II Banach algebras and spectral theory, operator theory, C^*-algebras and their representations, elementary von Neumann algebra theory.</p> <p>62-520. Abstract Algebra Elements of group theory are explored including such topics as: the Sylow Theorems, classification of groups of low order, Jordan-Holder Theorem, solvable groups, nilpotent groups, groups in terms of generators and relation, representations of groups, basic operations on representations, orthogonality relations</p> <p>62-521. Ring Theory and Modules This course is designed to introduce students to the structure theory of general rings and their modules. It will provide an appropriate foundation for more advanced graduate material in algebra at the doctoral level and will be an excellent preparation for doctoral comprehensive examinations. Topics covered will include: semisimple rings, Wedderburn-Artin Theorem, modules over a principal ideal domain, projective, injective and flat modules, introduction to homology theory.</p> <p>62-522. Introduction to Field Theory This course will cover polynomial rings, splitting fields, the fundamental theorem of Galois theory, Galois' criterion for solvability by radicals, algebraically closed fields and finite fields. (Prerequisites: 62-221 and 62-321) (Cross-listed with 62-422.)</p> <p>62-523. Lie Algebras Engel's Theorem, Lie's Theorem, criterion for semi simplicity, root space decomposition, universal enveloping algebra, PBW basis, representation theory, finite dimensional modules, Harish-Chandra's Theorem.</p> <p>62-525. Matrix Algebra and Analysis Aspects of measure theory and probability, convergence theorems for integrations and expectations, moments and inequalities, construction of Lebesgue-Stieltjes measure, Riemann-Stieltjes integral, comparison of Riemann and Lebesgue integrals, introduction to complex variable, contour integration, characteristic functions, elementary theorems on linear and matrix algebra, generalized and conditional inverses, distributions of quadratic forms. This course is designed for graduate students in Statistics.</p> <p>62-530. General Topology Elementary concepts of topology, product and quotient spaces, continuity and homeomorphisms, nets and filters, separation and countability, compactness, connectedness.</p> <p>62-551. Advanced Linear Programming By presenting results and their proofs, the student will acquire a solid understanding of the theory, algorithms and applications of linear programming. This course is a prerequisite for more advanced courses on integer programming, combinatorial optimization and networks flows. Topics emphasized include: formulations of linear programming problems, convex sets and convex functions, separation theorem, Farkas' lemma, duality theory, economic interpretation of duality, optimality conditions, primal and dual simplex algorithms, cycling, sensitivity analysis, interior-point methods and central path, primal-dual methods, convergence results.</p> <p>62-552. Nonlinear Programming This course will provide an introduction to the field of nonlinear programming. By presenting results and their proofs, the student will acquire a solid understanding of the theory behind most algorithms for solving nonlinear optimization problems. He/she will also acquire the knowledge and skills needed to conduct research in this area. Topics covered will include: unconstrained optimization, necessary and sufficient conditions for optimality, convex sets and convex functions, steepest</p>
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descent method, Newton's method, conjugate gradient methods, quasi-Newton's methods, separation theorem and Farkas' lemma, Karush-Kuhn-Tucker conditions, constraint qualification conditions, duality theory, Barrier methods, and quadratic programming.

62-553. Integer Programming

This course will provide the student with a rigorous introduction to the field of integer programming. Topics covered will include: modelling with integer variables, elements of computational complexity theory, elements of polyhedral theory, total unimodularity, branch and bound methods, cutting plane methods, implicit enumeration, Bender decomposition, dynamic programming, lagrangian relaxation, knapsack problems, set covering/packing/partitioning problems, heuristic methods.

62-554 Combinatorial Optimization

This course will provide a rigorous introduction to combinatorial optimization. The student will develop a solid understanding of the theory, algorithms and applications of these problems and their connections to integer programming, linear programming and complexity theory. Topics will include: formulation of combinatorial optimization problems, polytopes and polyhedra, elements of computational complexity theory, shortest paths, bipartite and non-bipartite matchings, max-flow min-cut theorem, multi-commodity flow problems, clique and coloring problems, perfect graphs, traveling salesman problem, spanning trees, matroids.

62-561. Partial Differential Equations

First-order equations, classification of second-order equations, canonical forms and general solutions of second-order equations, diffusion equations, Laplace equations, the maximum principle and uniqueness for the Dirichlet problem, wave equations, Riemann's method for linear hyperbolic equation, Green's functions and transform methods.

62-568. Numerical Analysis I

General error analysis, direct solution of linear algebraic equations, iterative solution of linear equations, algebraic eigenvalue problems, numerical solution of a system of nonlinear equations, error analysis.

62-569. Numerical Analysis II

Interpolation and approximation, numerical integration and differentiation, finite differences. Numerical solution of ordinary and partial differential equations using finite differences.

62-582. Portfolio Optimization

This is a first course on Markowitz mean-variance portfolio optimization. The course will cover quadratic programming, parametric quadratic programming, the efficient frontier, the capital asset pricing model, Sharpe ratios and implied risk-free returns, portfolio optimization with constraints, and quadratic programming solution algorithms; also covered are professional writing and presentation skills and the use of optimization software. (Prerequisite: 62-221.) (Cross-listed with 62-482.)

62-598. Special Topics

62-796. Major Paper

62-797. Thesis (M.Sc.)

62-798. Dissertation (Ph.D.)

Graded on a pass/fail basis.

STATISTICS

65-540. Theory of Probability

Basic probability model, random variables and their distributions, expectation, convergence of random variables and their distributions, independence and conditional dependence. Zero-one laws, characteristic functions, generating functions, Law of large numbers, Central Limit Theorem.

65-541. Stochastic Processes

Discrete and continuous time Markov processes, renewal theory, branching processes, Brownian motion.

65-542. Advanced Mathematical Statistics

A review of probability theory, transformations and expectations, common families of distributions, inequalities and identities, properties of a random sample, data reduction and best estimation strategies, asymptotic approximation.

65-543. Statistical Inference

Measure of performance, pure significance test and formal hypothesis testing, interval estimation, asymptotic evaluations, analysis of variance and regression, analysis of categorical data.

65-544. Multivariate Analysis

This course is aimed at giving theoretical and methodological background on inference procedure for the analysis of multivariate continuous data mainly under the assumption of normality.

65-546. Statistical Data Analysis

This course takes a computer-oriented approach to equip students with the experience of data analysis, beginning with designing of experiment to presentation of results. Depending on the background of the students, different topics will be emphasized.

65-548. Non-parametric Statistics

Nonparametric tests including Wilcoxon, Mann-Whitney, Smirnov, Fisher's exact test, Cox and Stuart test for trend, runs test. Estimation. Theory and applications.

65-549. Discrete Multivariate Analysis

This course is aimed at giving theoretical and methodological background for the analysis of discrete data mainly in the form of contingency tables. Other discrete models as part of the generalized linear models may be covered.

65-550. Generalized Linear Models

This course is aimed at giving theoretical and methodological background for the analysis of discrete or continuous data using the generalized linear models and other semi-parametric models where full distributional assumptions cannot be justified.

65-552. Experimental Design

Factorial designs with and without interactions, randomized block, Latin square, balanced incomplete block, nested design, confounding factorial and other designs. Fixed, random and mixed models.

65-554. Theory of Sampling and Surveys

Sampling methods including simple random, stratified, cluster, PPS and multistage, ratio and regression estimates. Theory and applications.

65-555. Regression Analysis

Simple and multiple linear regression, inference on regression parameters, residual analysis, stepwise regression, polynomial regression, diagnostics and remedial measures for multicollinearity and influential observations, weighted least squares, logistic regression, nonlinear regression.

65-559. Topics in Statistics

Topics offered may include queueing theory, statistical quality control, statistical consulting, survival analysis, time series analysis, decision theory, and Bayesian analysis.

65-796. Major Paper

65-797. Thesis (MSc.)

65-798. Dissertation (PhD.)

ACTUARIAL

97-501. Probability for Risk and Actuarial Science

Topics include discrete and continuous probability univariate and multivariate distributions, conditional and marginal distributions. Moments. Generating functions. Transformation of random variables. Order Statistics. Central Limit Theorem. Course is restricted to students in Master of Actuarial Science. (Prerequisite: Integral Calculus.)

97-502. Financial Mathematics, Theory of Interest

Topics include interest rates, force of interest, equations of value, annuities, amortization, bonds, cash flows, yield, rate of return, term structure, forward interest rates, spot rates, duration, convexity, immunization,. Course is restricted to students in the Master of Actuarial Science program

97-503. Derivatives Markets I

Topics include financial derivatives, short selling, European and American options, hedging, arbitrage, forwards, futures, swaps, bond price models, binomial model, binomial model. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-501, 97-502.

97-504. Derivatives Markets II

Topics include Black Scholes option pricing, exotic options, Brownian motion, Ito integrals. Stochastic models. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-503.

97-505. Life Contingencies I

Topics include life contingencies, survival distributions and life tables, life annuities, net premiums, premium reserves. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-502.

97-506. Life Contingencies II

This course builds on the foundational life contingencies knowledge developed in 97-505 and extends into advanced topics in the field. Topics include advanced life contingencies, risk theory, survival models, construction of mortality tables. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-505.

97-507. Special Topics in Actuarial Science

This course allows students to select and explore in depth relevant topics of interest. Topics selected may include areas such as: loss models (severity models, frequency models, aggregate models, losses, risk measures, empirical models, parametric models, failure time, loss distributions), Bayesian analysis, simulation, etc. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-501.

97-510. Microeconomics

This course provides an introduction to microeconomics , including the tools necessary to begin to understand and evaluate

how resources are allocated in a market economy. Specific topics include how markets function, theories of the business firm, of consumer behaviour and of income distribution, supply and demand, the economic roles of labour unions and government. This course is restricted to students in the Master of Actuarial Science program.

97-511. Macroeconomics

This course provides an introduction to macroeconomics with an emphasis on measuring and explaining economic aggregates such as the GDP and the level of prices and employment. Topics include the role of money and financial institutions, the impact of international trade, the policy options available to governments for coping with inflation and unemployment. This course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-510.

97-520. Regression and Time Series

This course introduces regression and time series analyses. Topics include multiple linear regression, least squares, model fitting, estimation, testing, matrix formulation, indicator variables, logistic regression, residual analysis, prediction intervals, times series, autoregressive models, moving average models, ARIMA models, fitting models, estimation and forecasting. Course is restricted to students in the Master of Actuarial Science program. Prerequisite: 97-501.

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NURSING: COURSES

Not all of the courses listed below will necessarily be offered in any one year.

63-530. Advanced Health Assessment, Diagnostics, and Therapeutics of the Oncology/Palliative Patient I (Part 1)

This course prepares students with advanced skills in health assessment, diagnostics and therapeutics in preparation to provide holistic care to individuals who have experienced alterations in their physical health from cancer treatment and/or may also to individuals who are palliative. Students will learn through lectures, readings, and simulation in the laboratory, learn and practice performing a holistic health history and the techniques of inspection, percussion, palpation and auscultation for systematic health assessment of individuals

63-531. Leadership and Management in Oncology/Palliative Care Settings

This course prepares students who work across the continuum of cancer care for advanced practice and leadership roles. Course content will focus on the examination and critical appraisal of concepts and theories of leadership, research, management, and education within the context of oncology and palliative nursing environments. Emphasis will be placed on organizational and change theories, professional practice, decision-making and governance models, power and social justice concepts. Strategies for knowledge transmission and information system development will be appraised. Note: This course is equivalent to 63-596; thus, students who take 63-596 will not be eligible to take this course for credit.

63-532. Advanced Health Assessment, Diagnostics, and Therapeutics of the Oncology/Palliative Patient II (Part 2)

This course is the second of two advanced health assessment, diagnostics and therapeutics courses of the Oncology/Palliative diploma that are designed to prepare students with advanced skills to provide holistic care to individuals who have experienced alterations in their physical health from cancer treatment and/or may also be in need of palliative care. Students will learn through lectures, readings, and simulations, learn and practice performing a holistic health history along with advanced techniques in inspection, percussion, palpation and auscultation for systematic health assessment of individuals.

63-533. Interprofessional Psychosocial Oncology: Introduction to Theory and Practice

This course is required for the graduate diploma in Advanced Practice Oncology/Palliative Care. It is also open to other students from any discipline enrolled in Masters of PhD program to take as an unspecified graduate course. It provides graduate students with an introduction to the field of psychosocial oncology. Emphasis is placed on understanding and interpreting the experience of cancer informed by theory, evidence and illness narratives. This course also emphasises an understanding of the illness experience and assists the student to assess distress and coping from a family centred perspective. This course draws on a case-based, narrative format and provides opportunities to learn in small groups of interprofessional learners drawn from across Canada.

63-534. Advanced End of Life Care

This course teaches the specialized assessment, diagnostics and therapeutics needed to care for patients at the end of life. This class will focus on, but is not limited to, disease management; psychological and physical support: loss, grief, social, and practical end of life care management along with spiritual support for caregivers and the patient. Students will learn through lectures, readings, case studies and assignments how to more effectively care for these patients and their family members. They will learn the basics of the theories used in palliative care and the fundamentals of how to care for a dying patient and their family members.

63-535. Oncology/Palliative Capstone Project

[P]
[SEP] This course will provide learners with the opportunity to synthesize concepts from prior coursework and to undertake an in-depth exploration of an area of oncology/ palliative care nursing practice. Students will systematically search, analyze, and synthesize relevant research literature and make recommendations for practice, education and research. The student will write an evidence-based scholarly article that is suitable for publication in a journal. (Prerequisites: 63-530, 63-531, 63-532, 63-533, 63-534)

63-550. Pathophysiology for Nurse Practitioners

Examine theoretical and practice related concepts in pathophysiology as a basis for advanced nursing practice. Explore alterations in physiological function with an emphasis on age-related, acute, episodic, and chronic conditions found in primary health care practice. (Prerequisite or co-requisite: 63-581.) (3 hours per week.)

63-552. Primary Health Care Nurse Practitioner Roles and Responsibilities

Compare and contrast advanced practice nursing and related frameworks to develop, integrate, sustain, and evaluate the role of the nurse practitioner within primary health care. Critically analyze and develop strategies to implement advanced practice nursing competencies (research, leadership, collaboration, and health and social policy). (Prerequisites or co-requisites: 63-581and 63-583.) (3 hours per week.)

63-554. Evidence-Based Practice (EBP) for Advanced Practice Nursing (APN)

This course provides students with the knowledge and skills required to identify and use best evidence in advanced practice roles. The course focuses on developing a relevant evidence-based practice question, and searching appropriate evidence resources. Frameworks for the critical appraisal of quantitative and qualitative studies will be critiqued. Issues related to influencing practice and health outcomes through evidence, at the level of the individual practitioner and the health care organization, are addressed. This course will explore paradigms and theories that inform knowledge development and knowledge transfer. The foci of the course are the exploration, critical analysis, and application of concepts. Challenges and

strategies related to addressing complex health care system issues through evidence, at the level of the individual practitioner and the health care organization, are addressed. (Prerequisites: 63-581 and 63-583.)

63-556. Research Utilization Project: Evidence Based Decision Making in Health Care: Integrating Knowledge into Advanced Practice

This course provides students with the knowledge and skills required to identify and use best evidence in advanced practice roles. The course focuses on developing a relevant evidence based practice question, and searching appropriate evidence resources. Frameworks for the critical appraisal of quantitative and qualitative studies will be critiqued. Learning is facilitated through seminars, and workshops to address a question emerging from their own practice. Issues related to influencing practice, and health outcomes through evidence, at the level of the individual practitioner and the health care organization are addressed. (Prerequisite: COUPN Primary Health Care Nurse Practitioner Certificate)

63-557. Advanced Health Assessment and Diagnosis I

Differentiate concepts and frameworks essential to advanced health assessment, clinical reasoning, and diagnosis in advanced nursing practice. Apply clinical, theoretical, and scientific knowledge in comprehensive and focused health assessment, including history taking, physical examination, diagnostic reasoning, and interpretation for the individual client's diagnostic plan of care. (Prerequisites or co-requisites: 63-550 and 63-581.) (3 hours seminar per week; 6 hours clinical per week.)

63-558. Advanced Health Assessment and Diagnosis II

Integrate conceptual frameworks integral to advanced health assessment, clinical reasoning, and diagnosis in advanced nursing practice. Demonstrate substantive initiative, responsibility, and accountability in complex decision making for individual clients, groups, and/or communities within the nurse practitioner scope of practice. (Prerequisites or co-requisites: 63-557 and 63-581.) (3 hours seminar per week; 6 hours clinical per week.)

63-561. Therapeutics in Primary Health Care I

Critically appraise and interpret concepts and frameworks integral to pharmacotherapy, advanced counseling, and complementary therapies for common conditions across the lifespan. Develop, initiate, manage, and evaluate therapeutic plans of care that incorporate client values and acceptability, goals of therapy, analysis of different approaches, pharmacotherapeutic principles. (Prerequisites or co-requisites: 63-557, 63-581 and 63-583.) (3 hours seminar per week; 6 hours clinical per week.)

63-562. Therapeutics in Primary Health Care II

Integrate conceptual frameworks and evidence underlying the study of pharmacotherapy, advanced counseling, and complementary therapies for complex client situations. Demonstrate substantive initiative, responsibility, and accountability in complex decision making. (Prerequisites or co-requisites: 63-558, 63-561, 63-581, 63-582 and 63-583.) (3 hours seminar per week; 6 hours clinical per week.)

63-570. Counselling Process in Nursing

Development and refinement of counselling skills with an emphasis on human relationships and nursing strategies that facilitate health. Experiential learning will be implemented to bring a balance between counselling theory/research and applied counselling knowledge.

63-572. Women and Health

An analysis of health issues of Canadian women from a holistic woman-centered perspective to include geographical, sociocultural and political variables that impact women's health.

63-576. Management of Human Resources in Nursing

A study of concepts, theories, and practices that will assist nurse leaders to develop effective approaches to human resource management in nursing education and service settings.

63-578. Seminar in Current Nursing Issues

An historical and futuristic examination of the critical issues facing the nursing profession and discipline. Considering the practice orientation of nursing, students will explore issues related to education, practice, discipline, and professionalism.

63-580. Selected Readings in Nursing

Intended for students with a special interest in and knowledge of a specialty area in nursing. To explore theory and research related to human responses and adaptations to alterations in health, or health promotion and illness prevention with selected client populations. (To be taken only with permission of the School.)

63-581. Theoretical Foundations of Nursing

The focus of this course is theory exploration in nursing. Beginning with the theoretical evolution of the discipline of nursing, students progress to issues related to development of theory in a practice discipline. Analysis, evaluation, and comparison are made of selected nursing conceptual models/theories and their major concepts. The contributions of the conceptual models to practice and research are investigated.

63-582. Advanced Statistics

An advanced course with a focus on multi-variate analysis. Topics include ANOVA, MANOVA, regression analyses, critique of statistical analyses of research articles, and computer data analysis.

63-583. Research Methods in Nursing

Students will examine diverse approaches to scientific inquiry in nursing. Within selected research paradigms, students will explore design, process, and evaluation techniques. Models for research analysis will be explored. Opportunities will be provided for students to develop a research proposal to gain solutions to nursing problems.

63-589. Summer Institute of Clinical Health Research

This intensive one-week Summer Institute will provide participants (i.e. graduate students, clinicians, and academics from various health related fields) with 35 hours of in-depth exploration and discussion of the principles and applications of clinical health research. Participants will be engaged by a team of experts in discussions pertaining to the understanding and applications of topics such as qualitative research and evidence based practice, the use of mixed methods in clinical health research, epidemiologic research designs, clinical trials, and statistical modeling techniques in clinical health research. Other topics will include successful grant writing, running a successful research program, and ethical issues in clinical health research. (Pre-requisites: Basic Research and biostatistics course(s); Permission of instructor)

63-592. Health of Individuals, Families and Groups

The focus of this course is excellence in health care delivery for individuals, families, and groups across the lifespan. Students will critically appraise conceptual frameworks and the empirical research underlying health promotion, health adaptation and risk reduction for individuals, families, and groups. Students will be prepared to influence client care and participate in research, education and policy activities related to advanced practice nursing and health care for diverse populations.

63-593. Advanced Professional Nursing Practicum

Students, working in diverse areas of *non-clinical advanced nursing practice*, will engage in projects focused on complex system-related issues at the unit and/or organizational level. The goal is to integrate and apply in-depth knowledge across the domains of professional autonomy, leadership, research, practice, communication, intra/inter-professional teamwork and collaboration. (Prerequisites: 63-581; 63-582; 63-583 and either 63-596 and 63-597 or 63-592 and 63-594) (3 lecture hours per week plus approximately 20 hours per week related to community placement project work.) (Credit cannot be obtained for both 63-593 and 63-599.)

63-594. Community and Population Health

This course will examine the conceptual frameworks and empirical research underlying health promotion, health adaptation and risk reduction for communities and populations. The course engages the student in using advanced problem-solving, critical thought, and research to develop a comprehensive understanding of the determinants of the health of populations and their complex interaction. Students will have the opportunity to appraise the relationships among the determinants of health, decision making, policy, and legislation at local, provincial, national and international levels.

63-595. Integrative Practicum in Primary Health Care

Synthesize competencies essential to advanced practice nursing to provide primary health care for clients across the life span. Demonstrate autonomy in decision-making, and critical analysis of organizational and system issues that influence scope of practice, professional accountability, and outcomes. (Prerequisites: All PHCNP courses; 63-581, 63-582 and 63-583.) (3 hours seminar per week; 32 hours clinical per week.)

63-596. Theoretical Foundations of Leadership

This course will focus on the examination and critical appraisal of concepts and theories of leadership, research, management, and education within the context of nursing and dynamic health care systems. Emphasis will be placed on organizational and change theories, professional practice, decision making and governance models, power and social justice concepts. Strategies for knowledge transmission and information system development will be appraised.

63-597. Innovations in Nursing Leadership

This course focuses on the application of leadership and organizational theories and research that support excellence and innovation in professional nursing practice, education, and workplace environments. Emphasis will be placed on the planning, implementation, and evaluation of health systems, and human resource management. Students will examine issues pertaining to operations management, including finance, quality and risk management, information systems development and policy development. Students will be prepared to formulate innovative strategies to influence current policy and legislation that impact nursing practice, education, health care systems, and the health of Canadians.

63-797. Thesis Option

Before writing the thesis, the student must meet with the Master's committee to obtain approval of the thesis investigation. Permission will only be granted when the student has shown sufficient preparation and competence to carry out the thesis proposal. Upon completion, each candidate will be required to make a satisfactory oral presentation and defense of the thesis.

63-600. Seminar

A structured seminar series to socialize students to the role of the nurse scholar, and promote professional development and academic discourse. Students will synthesize knowledge and skills gained during the course of their study leading to the development of their scholarly portfolio. Seminar topics may include, but are not limited to: grant writing, preparing publications, preparing presentations, ethics of conducting research, and proposal/dissertation development. Students will identify their learning needs and take a leadership role in the planning and implementation of seminar topics. (To be taken over two semesters; Co-requisites: 63-610 Fall semester; 63-630 Winter semester).

63-610. Philosophy of Science in Nursing

This course introduces students to the philosophical assumptions concerning knowledge and knowledge development that inform the conduct of research in the discipline of nursing. Students will explore key concepts in relation to a variety of paradigm/perspectives within the philosophy of science, ranging from positivism to post-modernism and critical theory. Major topics to be debated will include the notion of nursing as a science and what constitutes nursing knowledge. Individual seminars will enable in-depth analysis of selected philosophers (as representative of such paradigms) in their respective socio-political and historical contexts. This course will enable students to articulate and defend their own philosophical assumptions of the paradigm that informs their dissertation topic. (Co-requisite: 63-600)

63-620. Advanced Perspectives in Quantitative Research Methods and Analyses

This advanced course is designed to enhance students' knowledge of the design and analysis of selected observational (prevalence, ecologic, cohort, and case-control) and experimental (controlled trials) quantitative research designs. The course will also address principles and issues pertaining to the development, evaluation, and use of psychometric measures. Emphasis will be focused on the understanding and decision making pertaining to (a) the selection of the right research design, (b) the identification of issues associated with various research methodologies, (c) the use of psychometric measurement, and (d) multivariate statistical procedure such as linear regression analysis, Binary and multinomial logistic regression analysis, and survival analysis. Approaches to evaluation of the quality of evidence in published research will also be addressed. (Pre-requisite: 63-610; 63-600; 63-630; Graduate level course)

63-630. Advanced Perspectives in Qualitative Research

This course provides advanced philosophical and theoretical knowledge required to conduct qualitative research. Students are challenged to critically appraise the scholarship of published studies and to explore arising issues with qualitative inquiry. Issues may include, but are not limited to the importance and integration of philosophical underpinnings, researcher positioning, methodological congruence/consistency, ethical issues (anonymity, confidentiality of participation, privacy), challenges inherent in data collection and analysis, metasynthesis, rigour, and the usefulness of qualitative health research for nursing practice and healthcare policy. The relationship between qualitative and mixed methods health research will be examined. Students will defend their application of knowledge about these issues in relation to their own dissertation research interests. (Pre-requisite: 11-63-610, 11-63-600 Fall semester) (Co-requisites: 63-600 Winter semester)

63-741. Comprehensive Exam

This course allows students to demonstrate, in writing and orally, their ability to complete an extensive review and critical analysis of the literature to synthesize current knowledge and theoretical underpinnings pertaining to their research area. The critical review will also examine potential methodological and analytical approaches that are relevant to their research. The examination includes a written paper and an oral defense of the work. (Pre-requisites: (63-600; 63-610, 63-620, 63-630, one Graduate Level course).

63-798. Dissertation

[63-600 \(Seminar\) Dec 2017.pdf](#)[63-610 \(Philosophy of Sc. in Nursing\) Dec 2017.pdf](#)

[63-620 \(Adv. Persp. in Quant. Research Methods and Analyses\)Dec 2017.pdf](#)

[63-630 \(Adv. Persp. in Qual. Research\) Dec 2017.pdf](#)[63-741 \(Comprehensive Exam\)Dec 2017.pdf](#)

[63-593 Advanced Professional Nursing Practicum \(March 2018\).pdf](#)[63-572. Women and Health \(April 2018\).pdf](#)

[63-581. Thoretical Foundations of Nursing \(April 2018\).pdf](#)[63-582. Advanced Statistics \(April 2018\).pdf](#)

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PHILOSOPHY: COURSES

GROUP A

Note: Students may receive credit for more than one offering of a course in Group A provided that the emphasis is sufficiently different. Thus, for example, credit may be received for both "34-570 Recent German Philosophy: Arendt" and "34-570 Recent German Philosophy: Habermas" where these are entirely distinct course offerings.

34-520. Topics in Ethics and Value Theory

34-521. Topics in Social and Political Philosophy

34-522. Topics in Environmental Philosophy

The course will focus on the conceptual foundations of the human relationship to the natural and built environment. The course may adopt either an historical or contemporary emphasis depending on the decision of the instructor. (May be repeated for credit if content changes and with permission of the instructor.)

34-530. Topics in Gender and Sexuality

The course will focus on the philosophical implications of the impact gender and sexuality have on major epistemological, scientific, normative, and political problems. The specific focus of each year's class will be determined by the instructor. (May be repeated for credit if content changes and with permission of the instructor.)

34-526. Legal Philosophy

The objective of this course is to introduce the student to contemporary issues concerning the philosophy of law. Particular emphasis will be placed upon the presupposed relation of concepts to society. The course will examine such issues as the difference and relation of legitimacy to legality, the relation of legal analysis to social needs, the relation of morality and ethicality to the content of legal rules and legal reasoning (Pre-requisite: Final Year of Honour's B.A or M.A. Philosophy students only.) (Cross-listed with 34-426)

34-550. Topics in Mind or Knowledge

34-560. Movements and Figures in Argumentation Theory and Informal Logic

The course will focus on selected contemporary movements and figures in Argumentation Theory and Informal Logic. The movement and figure studied in any given year will be determined by the latest developments in the field.

34-561. Problems in Argumentation and Informal Logic

34-570. Recent German Philosophy

Significant developments in German philosophy in the twentieth century will be examined. Portions of the course may be devoted to Husserl (the founder of the phenomenological school), Heidegger (a seminal figure in existentialism), Gadamer (a key figure in the development of hermeneutics), Critical Theory (a Freudian and Marxist approach to social and economic issues), and second-generation critical theorists such as Habermas. (Prerequisite: 34-100 or 34-112, and one 200-level or above Philosophy course, and semester 5 or above standing, or permission of instructor.) (Cross-listed with 34-470.)

34-571. Recent French Philosophy

A study of significant developments in recent French thought as found in Bergson, Sartre, Merleau-Ponty, Bataille, and Levi-Strauss, for example. (Prerequisite: 34-110 or 34-112, at least one 200-level or above Philosophy course, and semester 5 or above standing, or consent of the instructor.) (Cross-listed with 34-471.)

34-572. Recent British Philosophy

Advanced study of themes and trends in analytic philosophy, in which logic, language, and scientific evidence play central roles. (Prerequisite: 34-110, or 34-112, and at least one 200-level or above Philosophy course, and semester 5 or above standing, or permission of instructor.) (Cross-listed with 34-472.)

34-573. Recent American Philosophy

Advanced study of some of the major themes or figures in pragmatist philosophy, which takes practice, in a broad sense of the term, to have a central role in most if not all philosophical issues. (Prerequisite: 34-110 or 34-112, and at least one 200-level or above Philosophy course, and semester 5 or above standing, or permission of the instructor.) (Cross-listed with 34-473.)

34-577. Topics in Continental Philosophy

34-580. to 34-584. Special Topics

GROUP B

The following course must be taken by all M.A. students:

34-590. Departmental Seminar: The History of Philosophy in Perspective

The aim of the seminar is to deepen students' sensitivity to the history of philosophy and help prepare them for the Master's

examination in Philosophy. Each year a specific philosophical theme is traced through a number of key figures in the history of thought.

GROUP C

34-796. Major Paper

34-797. Thesis

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	64-510. Seminar for M.Sc. Students In order to receive credit for this course, a student should attend the weekly departmental seminar throughout M.Sc. studies and present a minimum of one seminar on a topic approved by the Seminar Coordinator.
	64-520. Classical Electrodynamics Radiation by moving charges, synchrotron radiation, bremsstrahlung, scattering of radiation, multipole fields, radiation reaction.
	64-540. Theory of Particle Scattering Classical theory of scattering. Formal quantum theory. The definitions of cross sections, transition probabilities and related concepts. The Born approximation, phase shifts.
	64-542. Atomic and Molecular Processes I Atomic/molecular beam methods and techniques. Collision phenomena in atomic and molecular scattering, including elastic, inelastic and reactive scattering, excitation, ionization, and charge exchange. Detailed discussion of the experimental results and their interpretation in terms of interatomic/ molecular forces and potentials.
	64-543. Atomic and Molecular Processes II A variety of topics in electron and photon collisions highlighting current advances in these fields and including total and differential elastic and inelastic scattering of electrons and positrons, resonances, polarization, coherence and correlation effects, post-collision interactions, photon-stimulation spectroscopy. (Prerequisite: 64-542.)
	64-544. Theory of Atomic Structure and Atomic Spectra Rotation matrices, 3n-j coefficients and graphical techniques for angular-momentum coupling, irreducible tensor operators, the Wigner-Eckart theorem and applications, the density matrix, interactions of atoms with external fields.
	64-546. Molecular Spectroscopy Diatomic molecules, Born-Oppenheimer approximation, adiabatic potentials, Hund's coupling cases, rotational, vibrational, and electronic states and associated spectra. Applications of group theory to the structure and spectra of polyatomic molecules.
	64-550. Advanced Quantum Theory I General principles, representations and transformation theory. Approximation methods. Many-body problems and identical particles.
	64-551. Advanced Quantum Theory II Number representations and second quantization. Dirac equation. An introduction into quantum electrodynamics and the electro-weak theory. (Prerequisite: 64-550.)
	64-560. Solid State Physics I Application of group theory to condensed matter physics: the study of point groups, Bravais lattices and space groups. Inverse lattice with applications to scattering phenomena.
	64-563. Special Topics in Physics Advanced topics in contemporary physics not normally covered in other courses. (May be repeated when the topic is different.) (Prerequisite: consent of instructor.)
	64-574. General Theory of Relativity The principle of equivalence, general co-variance. Riemann spacetime Einstein field equations.
	64-581. Theory and Applications of Thin Films Definition of thin films and their classification; methods of preparation; elements of high-vacuum technology; thin-film formation, structure and methods of investigation; mechanical, optical, electrical properties of thin films and their application in modern technology.
	64-584. Design and Application of Lasers Stimulated emission, rate equation approach to amplification and output power calculations; Gaussian beams, stable and unstable resonators; Q-switching, mode-locking and cavity-dumping; ruby, Nd:YAG and other solid state lasers; semi-conductor, gas and dye lasers.
	64-585. Atmospheric and Environmental Physics Physics of the atmosphere, general description and layering, interactions of incoming and outgoing radiations, greenhouse effect, atmospheric thermodynamics and stability, cloud physics, atmospheric dynamics, gravity waves and turbulence, atmospheric photochemistry, ozone layer, upper atmosphere, plasma and hydromagnetic effects, ionosphere, air glow and aurora.

64-587. Applications of Electron, Ion and Atomic Beams

Non-relativistic theory of charged particles in electric and magnetic fields. Review of matrix optics, electrostatic lenses, magnetic lenses, electrostatic and magnetic vector fields. Applications to energy and mass analysis. The Liouville Theorem and its consequences. Dense electron beams and applications.

64-610. Seminar for Ph.D. Students

In order to receive credit for this course, a student should attend the weekly departmental seminar throughout Ph.D. studies and present a minimum of two seminars on topics approved by the Seminar Coordinator.

64-612, 64-613. Selected Topics in Theoretical and Experimental Physics

These courses consist of two survey lecture series to be selected from among several which will be offered each year. Each lecture series lasts for approximately half a term. Credit may not be obtained for any survey courses in subjects in which the student has taken another graduate course.

64-630. Statistical Physics I

Review of thermodynamics; information theory. The many-body problem in quantum mechanics, particle number representation. Statistical (density) matrix. The perfect gas, real gases, dense plasma, applications.

64-631. Statistical Physics II

The theory of macroscopic quantum phenomena. (Prerequisite: 64-630.)

64-640. Elementary Particles and Their Symmetries

Symmetries and conservation laws, group representations, and particle multiplets; Lie groups and algebras; generators and weights of $SU(n)$; the quark model; quantum chromodynamics; electro-weak interaction theory; supersymmetry; path integrals and Feynman diagrams.

64-650. Classical and Quantum Field Theory I

Variational principles and conservation laws and applications, field equations and their solutions. (Prerequisite: 64-551.)

64-651. Classical and Quantum Field Theory II

Quantization of fields; scalar, vector, and spinor fields. Quantum electrodynamics and applications; renormalization and radiative corrections. (Prerequisite: 64-650.)

64-660. Advanced Topics in Condensed Matter Physics

Crystal field theory in the weak and strong coupling schemes. Molecular orbitals; vibronic interactions. Electronic structure and spectra of molecular complexes. (Prerequisite: 64-551.)

64-796. M.Sc. Major Paper

64-797. M.Sc. Thesis

64-798. Ph.D. Dissertation

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POLITICAL SCIENCE: COURSES

All courses listed will not necessarily be offered in any given year. Courses are normally two hours a week.

45-500. Scope and Approaches to Political Science

A review of the state of the discipline and a survey of approaches to research. This course is mandatory, as students will focus on their major paper/thesis research design.

45-513. Federalism in Canada

Analysis of selected topics in Canadian federalism. Topics may include: federalism, federal/provincial relations, the social union, and the debate over the future of Quebec in Canada.

45-514. Canadian Politics: Participation and Processes

Analysis of selected topics in Canadian politics. Topics may include: parties, elections, voting behaviour, pressure groups, representation, new social movements, Canadian political theories, ideologies, and public opinion as measured through survey research and communication surveys.

45-521. Canadian Public Policy

A review of the applicability of contemporary theories of public policy-making, policy evaluation, and policy delivery within the context of the Canadian political system. May include a focus on specific areas of public policy.

45-530. Politics in the Developed World

An examination of the political systems of economically developed countries. Topics may include comparative government, managing ethnic conflict, new social movements, democratic development, and the development of international political and economic institutions.

45-534. American Politics and Government

Analysis of selected topics in American politics and government. Topics may be selected from the institutional or behavioural areas of the discipline, or may include a comparative analysis of Canadian and American politics.

45-551. Selected Topics in Contemporary Political Theory

This course explores one or more themes in political theory through discussions and seminar presentations. While the focus is on political themes, the readings might be drawn from other disciplines, e.g., literature, psychology, religion, history, or sociology.

45-555. Political Economy, Mass Media and Democracy

This course examines the linkages between media, democracy and the larger political economy. Students will research a media conglomerate; identify media roles in how governments and publics interact. Hegemony, ideology and institutional/organization analyses will bring students an integrated understanding of the role of media in a democracy.

45-560. International Organizations

A theoretical overview of International Organizations; the course will examine why these organizations exist, how they operate, and their impact on international affairs. The course may also focus on specific organizations, for example, the UN, the EU, ASEAN and/or the OAS.

45-561. International Relations Theory

A survey of recent literature on theories and methods in the study of international politics.

45-563. Canadian Foreign Policy

An examination of selected issues in Canadian foreign policy, chosen for the relevance in driving the contemporary research agenda. Topics may include human security, Canadian defence policy, peacekeeping, and/or Canadian aid and development policy.

45-565. International Security

An examination of selected topics in security. Examples of topics may include inter- and intra-state conflict, different approaches to conflict resolution, the utility of force, the causes of war, non-traditional approaches to security and/or detailed case studies of selected conflicts.

45-566. International Political Economy

Study of the major theoretical perspectives in international political economy as applied to such issues as multinational corporations, trade, and international development.

45-567. Islamic Political Thought

This course examines the rise and development of Islamic political thought from the formative period of Islam (622-661 CE) down to the contemporary era described here as the 'age of fundamentalism' (1920s – present). The focus of the course will revolve around ideas of significant Muslim thinkers, and, where appropriate, look into the political, legal and cultural traditions that provided the contextual milieu of these intellectual contributions. Preference would be given to those with a background in Political Theory and/or Islamic or Middle Eastern Politics.

45-568. The Third World in International Relations

An examination of the theoretical literature on such topics as the foreign policy of third world states, nonstate actors, structural dependence, North-South conflict, and regional integration.

45-569. Globalization, Poverty and Development

This course provides a foundation for understanding the fields of Globalization and Development Studies, with special emphasis on the problem of persistent poverty and inequality on a global scale, and the relation of this condition to global political economy, global justice, and global politics. With a focus on the role of the state and market, the course combines expertise and perspectives from the fields of Politics, International Political Economy, and Sociology of Development to provide an interdisciplinary learning environment. It covers a range of relevant topics including the definitions of globalization(s); the definition(s) and measurement of poverty; the analysis of the relationship between globalization, development and poverty; global politics and development, global justice and global ethics; and the 2007 global crisis and its relation to global poverty and development.

45-575. Quantitative Methods in Political Science

The course will give an overview of quantitative methods and techniques which are core to the analysis of empirical data analysis in Political Science. The aim is to provide an understanding of statistical methods to be able to (1) conduct statistical tests in a variety of applications, and (2) quantify dependencies between variables. The course requires that students have had some introduction to questions of research design and basic descriptive statistics at the undergraduate level. Along with this introduction to various methods, their application through the use of statistical computer packages (e.g. SPSS) will also be a core part of the course. This course is also designed to help students obtain and analyze data for their major paper/thesis. (Prerequisite: 45-500).

45-588. Selected Topics in Political Science

Topics of current interest selected by the Political Science faculty which may vary from year to year. (May be repeated for credit if offered as a different topic with the permission of the program coordinator.)

45-599. Readings in an Approved Special Field

Intended for students with a special interest in and knowledge of areas not covered in sufficient depth by other courses. (To be taken only with the permission of the program coordinator.)

45-795. Political Science MA Internship

The Political Science MA Internship places students in a full-time work placement relating to public policy and political science generally. Students will be placed with an organization for approximately six months in the summer and fall semesters. During this period they will have the opportunity to continue their study of politics at a practical level, synthesizing the theory to practice. Interns will meet periodically during the internship in a class setting to evaluate the progress of their internships. At the conclusion of the work placement, students will prepare a research paper relating to their work experience. This paper will be publicly presented at a conference in December.

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PSYCHOLOGY: COURSES

All courses listed will not necessarily be offered in any given year. Some courses are restricted to students in the Clinical Program.

46-501. Historical and Philosophical Foundations of Psychology

The origin of modern psychology as a science and profession and the philosophy of science underlying psychology.

46-503. Human Neuropsychology and Biological Bases of Behaviour

Basic brain/behaviour relationships are introduced in the context of neuro-anatomical and neurotransmitter systems. Traditional theories of brain function are reviewed, and include coverage of major neuropsychological domains (e.g., attention, memory, language, perception, sensory-motor, processing speed, executive function, emotion) and clinically-relevant methods that evaluate central nervous system integrity (e.g., imaging, EEG, and neuropsychological evaluation). (3 hours a week.)

46-505. Cognitive Bases of Behaviour

Systems and methodologies in areas such as attention, perception, learning, memory and thinking. (3 hours a week.)

46-507. Survey Data

Student will work in teams to develop questionnaires, gather data, and prepare them for analysis. Extensive reading will be required on sample design, questionnaire design, and survey administration. (2 lecture, 1 laboratory hour each week.) (Cross listed with 48-607)

46-508. Data Analysis

Students will explore their data and test hypotheses, drawing on methods from other graduate data analytic courses. Students will be required to write a final report which emphasizes communicating findings to non-specialists. (2 lecture, 1 laboratory hour each week.) (Cross listed with 48-608)

46-511. Statistics for Graduate Study in Psychology I

Overview of the general linear model (univariate case) covering statistical analyses used to analyze data from experiments as well as to analyze observational data. Topics will include analysis of variance including between subjects and repeated measures factorial designs, random effects and various mixed designs. Both linear and logistic regression techniques will be covered including vector coding and continuous variable interactions, as well as other extensions. (3 lecture hours, 1 laboratory hour a week.)

46-512. Statistics for Graduate Study in Psychology II

Overview of the general linear model (multivariate case) including classical methods such as canonical correlation analysis, discriminant analysis, multivariate analysis of variance, and exploratory factor analysis. Other topics may include methods of addressing missing data, loglinear modeling, and confirmatory factor analysis. (Prerequisite: 46-511.) (3 lecture hours, 1 laboratory hour a week.)

46-513. Advanced Multivariate Analysis

Topics covered: path analysis; structural equation modeling, including confirmatory analysis; and, clustering methods. Other topics may include hierarchical linear modeling and latent growth modeling; multidimensional scaling, latent partition analysis and other related nonparametric techniques. (Prerequisite: 46-512 or consent of instructor.) (3 hours a week.)

46-514. Research Methods in Clinical Psychology

Review of research values and issues in clinical psychology; survey and evaluation of common research designs and strategies in psychopathology, personality, and psychotherapy. (Prerequisite:46-511.) (3 hours a week.)

46-516. Applied Psychological Measurement

The basic principles of measurement and how they are applied in the construction and evaluation of surveys, tests, and scales will be covered. Also examined will be special problems characteristic of various approaches to measurement, such as the role of sampling in survey work. (3 hours a week.)

46-517. Qualitative Methods

This course examines the theory, methods, and inference of qualitative inquiry and includes practical application. Topics to be covered include the historical and theoretical roots of qualitative inquiry, ethics and a range of specific methods which may include interviewing, biography and case study, ethnography, grounded theory, archival and historical methods, and Q-Methodology. (3 seminar hours a week.)

46-519. Advanced Developmental Theory and Research Methods

Provides an overview of research designs and methodological issues in the context of contemporary child psychology research and developmental theories. Students conduct a literature review and design a research project in preparation for fulfilling the programs's thesis and dissertation requirements.

46-529. Structure and Function of the Brain

An in-depth study of selected neuro-anatomical and biochemical systems.

46-540. Developmental Psychopathology

Review and analysis of developmental theories and research describing normal and abnormal development across the life course.

46-541. Cognitive Development

Review and comparison of major theoretical positions in cognitive development and a consideration of research generated from these theories.

46-542. Emotional Development

An examination of emotional development from infancy through the adult years. Topics include an overview of cognitive-affective theories and research on developmental change in emotions and self-regulation strategies, and cultural variations in displays of emotional expression and control in families.

46-543. Social Development

An examination of theories of the socialization process and research findings concerning social development in children.

46-557. Comparative Cognition

Evidence of general and specialized cognitive processes in human and non-human organisms will be investigated. Topics to be covered include perception, attention, and memory, concept formation, ecological and evolutionary bases of cognitive processes. Current research on these and other topics will be reviewed and discussed in a seminar format. (Prerequisite: Any two of the following undergraduate courses or their equivalents from other universities: 46-353, 46-358 or 46-335.) (Also offered as 55-557; Cross-listed with 46-457.)

46-560. Theory and Research in Social Psychology

A review of research design and methodology in social psychology, in the context of social psychology theory. Students will develop proposals for research projects.

46-566. Program Evaluation

An examination of theory, research, and analytical methods appropriate to the planning, design, implementation, and utilization of program evaluation in education, social, business and other organizational settings.

46-577. Ethical Issues in Applied Psychology

This course will provide an overview of ethics and standards in psychological practice and research. Ethical issues in academic, clinical, community and organizational settings will be examined, and feminist and cross-cultural approaches to ethical issues will be considered. (Antirequisite: 46-581.)

46-580. Psychopathology

Seminar on issues, diagnostic categories, etiological perspectives, and research in psychopathology in adults, adolescents, and children; includes focus on risk assessment, cultural diversity, diagnostic interviewing and report-writing, and case presentations.

46-581. Ethical and Professional Issues in Clinical Psychology

Ethics and standards of psychological practice and research are reviewed. Legislation, privileged communication, confidentiality, informed consent, private practice, patient rights and sexism are among the topics discussed.

46-582. Clinical Assessment I

An introduction to clinical psychological assessment. Emphasis is on the cognitive, achievement, and adaptive functioning of children, adolescents, and adults. Topics and activities include: basic psychometrics; interviewing; the construction, selection, evaluation, and use of ability tests; behavioural observations; case formulation; report writing; and an introduction to neuropsychological assessment. Attention is given to the assessment of individuals from cultural and linguistic minority backgrounds and to the assessment of those with disabilities. Students practice the administration, scoring, and interpretation of tests; practice interviewing; develop basic report writing skills; and conduct at least one cognitive assessment of an adult and a child.

46-583. Clinical Assessment II

Development of knowledge and skills in the assessment of psychopathology and personality in children, adolescents, and adults; evaluation of the clinical utility and psychometric properties of major personality instruments. The focus is on objective personality assessment, with an introduction to projective techniques. Students build on the skills developed in 46-582; practice the administration, scoring, and interpretation of tests, case formulation, and report writing; and conduct at least one clinical evaluation. Attention is given to non-normative aspects of personality and psychopathology assessment of individuals from cultural and linguistic minority backgrounds and to assessment of those with disabilities. (Prerequisite: 46-582.) (3 seminar, 3 laboratory/practicum hours a week.)

46-588. Multicultural Issues in Clinical Practice

An overview of the field of multicultural counseling and psychotherapy and, to a lesser extent, the field of cross-cultural psychology. The course surveys multicultural research, theories, practices, ethical issues, and assessment, and aims to facilitate students' multicultural competency in terms of cultural awareness, knowledge, and skills. A strong emphasis is placed on students' self-examination of personal cultural values and identities, and the impact these variables might have on their clinical work with clients or patients.

46-589. Advanced Adult Assessment

Students work with one or two adult clients to apply basic assessment skills acquired in preceding courses, to evaluate a wide range of cognitive, emotional, personality and interpersonal functions. The goal is to arrive at a comprehensive description of the person being assessed that results in meaningful clinical recommendations. Assessment strategies frequently employed in the field of clinical psychology will be practiced, and students will acquire skill with additional

assessment instruments as determined by client needs. Students will further their skills in interviewing, report writing, clinical formulation, diagnosis, and making recommendations and referrals appropriate to the needs of clients. Client cultural and linguistic differences are considered. This course includes a peer supervision training component whereby students learn to provide constructive feedback to their peers. (Prerequisite: 46-583)

46-604. Special Projects in Psychological Research

Provides the opportunity for a student to work on an independent research project under the supervision of a faculty member. Requires consent of instructor and Graduate Program Chair. May be taken for a maximum of two terms.

46-606. Special Topics in Psychology

Seminar format provides an opportunity to study in an area not covered in sufficient depth by other courses. May be taken more than once if offered by a different instructor. (3 seminar hours a week.)

46-610 Advanced Topics in Applied Social Psychology

This course will operate on a rotational basis, offering one of three topics in a cycle for any given calendar year. *Students may register for multiple sections with different topics and gain separate credit.*

(a) *Feminist Psychology and the Psychology of Women and Gender*. This course uses the scholarship and careers of early and recent feminist psychologists to explore a selection of topics in the psychology of women and gender. The impact of social and personal circumstances on women's career trajectories and research contributions is also explored.

(b) *Psychology and Academia* will examine the interaction of the professor and the academic institution, including topics such as research, publications, conferences, student responsibilities, and service to the university. The course will include an exploration of successful teaching techniques for university level professors, negotiating the world of research and publishing, understanding the process of tenure and promotion, as well as the study of basic learning dynamics for university students. Topics may also include academic and institutional governance, globalization, online learning, gender and culture.

(c) *Health Psychology* will further explore contributions made by psychology to the areas of health promotion, prevention and treatment of illness, modification of unhealthy behaviours, and improvement of health delivery.

(3 lecture hours/week)

46-630. Professional and Practice Issues in Clinical Psychology

A series of seminars/workshops covering various topics, which may include but are not limited to, professional development (e.g., self-assessment of competencies, communicating a diagnosis, risk assessment, the mental health system in Ontario, strategies for providing tactful assessment feedback), career planning (e.g., professional registration, post-doctoral training opportunities, private practice), and provision of services in special settings/groups (child custody, forensic, medical/health, geriatric, LGBTQ, indigenous, immigrant/refugee). (3 hours a week.)

46-640. Child Clinical Neuropsychology: Theory Methods and Research

A survey of the literature dealing with brain-behaviour relationships in children. Topics emphasized include: the effect of brain dysfunction on perception, learning, memory, language and thinking; learning disabilities; mental subnormality. Students will receive training in the administration of neuropsychological tests.

46-642. Adult Clinical Neuropsychology: Theory Methods and Research

A survey of the literature dealing with brain-behaviour relationships in adults. Topics emphasized include: the effect of brain dysfunction on perception, learning, and thinking; memory disorders; personality disorders associated with cerebral dysfunction.

46-644. Neurodevelopmental Disorders

An examination of the theories, research, and practice related to the neuropsychological and biological correlates of neurodevelopmental disorders. Each semester a particular disorder (e.g., ADHD) will be selected as a prototype to consider assessment, diagnosis, and treatment of neurodevelopmental disorders. (Prerequisites: 46-503 and 46-583, or consent of instructor.) (3 seminar hours per week.)

46-645. Neuropsychological Aspects of Rehabilitation

A study of the literature and the methods currently employed in the treatment of brain-injured adults. Topics to be stressed include epidemiology and societal impact, pathophysiology, clinical presentation and both the theories and practices of rehabilitation. (3 hours a week.)

46-648. Neuropsychology of Older Adults

A survey of the literature dealing with brain-behaviour relationships across the older adult life span. Emphasis is given to the understanding and assessment of normal and dysfunctional aspects of cognitive and affective development in older adults. (Prerequisite: 46-643 or consent of instructor.) (3 hours a week.)

46-651. Survey of Child Psychotherapies

Introduction to psychotherapy with children with an emphasis on fundamental principles and empirical foundations of effective psychotherapy. Several treatment approaches are studied.

46-652. Child Clinical Assessment

Advanced training in selection, evaluation, and use of tests designed for the assessment of children's abilities, personality, and behaviour. Practicum in administration, interpretation, and communication of results of comprehensive test batteries.

46-657. Issues in Cultural Diversity

An examination of issues associated with the negotiation of individual and intergroup relations in a culturally pluralist society, from an explicitly intercultural psychological perspective that focuses primarily upon the social processes occurring when members of different cultural groups interact with one another. Groups considered include, but are not restricted to, those

based on ethnicity, gender, and class. Issues to be covered include the search for universals of social behaviour, the determinants, characteristics, and consequences of acculturative stress, and cultural value differences in the definition of self, inter-personal, and inter-group relations.

46-660. Community Psychology

An overview of the field of community psychology, with emphasis on societal and cultural approaches to community well being, social problems, and effecting social change. Issues in theory, research, and practice in community psychology will be presented and discussed.

46-662. Health Psychology

An overview of health psychology, with emphasis on contributions made by psychology to the areas of health promotion, prevention and treatment of illness, modification of unhealthy behaviours, and improvement of health delivery. Application of the biopsychosocial model to health-related research and practice will be examined.

46-665. Industrial/Organizational Psychology

An examination of theory, research, and practice in the area of Industrial/Organizational Psychology. Industrial topics include measurement theory, job analysis, criterion development and other areas of personnel decision making. Organizational topics cover leadership, work motivation, team development, organizational development, and other areas of organizational functioning.

46-667. Advanced Topics in Industrial/Organizational Psychology

This course builds on the material covered in 46-665. Core topics in the field will be explored in greater depth, supplemented with an examination of current trends in the field and experiential exercises. Emphasis will be placed on a critical analysis of issues related to individual assessments and human resource planning, along with understanding work behaviour, affect, and attitudes.

46-670. Applied Social Psychology

An in-depth exploration of the field of applied social psychology, its development and progress. The course will situate applied social psychological research within the broader field of social psychology. Emphasis will be placed on applications in community, health, and industrial/organizational psychology.

46-674. Introduction to Psychotherapy

An overview of historical and contemporary models of psychotherapy, common therapeutic factors, and therapy outcome research. Development of basic therapeutic relationship skills and empathic responding through role-playing and other class activities.

THERAPY COURSES

Therapy course sequences consist of courses numbered 46-675 through 46-697 as listed below.

Therapy course sequences are taught over two terms. Seminars involve readings, discussion, and presentations on the theory, relevant research, techniques, and processes that are specific to the therapeutic approach under consideration. Practica involve supervised experience appropriate to the therapeutic modality. Students include practicum hours obtained through therapy courses in the total number of practicum hours reported on internship applications.

At least three different therapy course sequences will be offered in each academic year, but offerings will vary from year to year depending upon demand and the availability of qualified instructors.

46-675. Child/Adolescent Clinical Interventions I

Examination of the theory, research, and practice of clinical interventions with children, adolescents and families with an emphasis on fundamental principles and empirical foundations of effective psychotherapy. Issues relevant to the practice of psychotherapy with different groups will be discussed. (Prerequisites: enrollment in Clinical Psychology Program; 46-674; consent of instructor and Director of Clinical Training.) (Prerequisite or co-requisite: 46-581.) (3 seminar hours a week, plus practicum.)

46-676. Child/Adolescent Clinical Interventions II

Seminar and supervised practice in clinical interventions with children, adolescents and families. (Prerequisite: 46-675.) (3 seminar hours a week, plus practicum.)

46-677. Advanced Child/Adolescent Clinical Interventions I

This advanced course focuses on training in theory and practice of clinical interventions with children, adolescents and families. Emphasis is placed on advanced intervention skills applied to child and adolescent populations and problems. Primary focus of training will be in individual and co-therapy with child and adolescent groups. Students may also be trained in parent-child interventions and co-therapy in group interventions with parents. Students explore their own psychological functioning as well as the therapeutic process and thus have the opportunity for personal as well as professional growth. Space is limited; preference will be given to students in the Child Clinical Track. (Prerequisites: completion of M.A. requirements; 46-675 and 46-676; consent of instructor and Director of Clinical Training.) (3 seminar hours a week, plus practicum.)

46-678. Advanced Child/Adolescent Clinical Interventions II

Advanced seminar and supervised practice in clinical interventions with children, adolescents and families. (Prerequisite: 46-677.) (3 seminar hours a week, plus practicum.)

46-683. Special Topics in Therapy I

This course provides an Introduction to theory, research and therapeutic techniques related to a specific approach to intervention not covered by other therapy course offered in the Clinical Psychology Program (e.g., marital/couples, group, systemic, crisis intervention, interpersonal, existential, dialectical behaviour therapy). Topics will vary from year to year. (Prerequisites: enrollment in Clinical Psychology Program; 46-674; consent of instructor and Director of Clinical Training.) (Prerequisite or co-requisite: 46-581.) (3 seminar hours a week, plus practicum.) (May be repeated for credit if content changes and with permission of the instructor.)

46-684. Special Topics in Therapy II

Supervised practical experience in applying the specific therapeutic theory and techniques introduced in the linked 46-683 offering. (Prerequisite: 46-683.) (3 seminar hours a week, plus practicum.) (May be repeated for credit if content changes and with permission of the instructor.)

46-685 Brief Psychodynamic Psychotherapy I

This course focuses on the acquisition of knowledge and skills necessary to practice brief psychodynamic therapy. Students will be instructed in a brief psychodynamic psychotherapy (BPP) method through readings, didactic training, and role playing. The chosen relational approach is to be specified by the instructor at the time of course selection by students. After this didactic training period, students will engage in the practicum portion of this course with at least one client with whom they will practice the BPP method taught in this course. Weekly supervision will be provided to guide students in the application of BPP to their therapeutic work. (Prerequisites: 46-674; 46-581; consent of instructor and Director of Clinical Training.) (3 seminar hours a week; seminar and supervision plus practicum.)

46-686. Brief Psychodynamic Psychotherapy II

Students continue supervised practice with at least one client according to the BPP approach selected for 46-685. Concurrently, students learn to conduct interpretive work through readings, didactic instruction, and role playing. In the practicum portion of this course, students learn to conduct interpretive work with their clients within BPP. (Prerequisites: 46-674, 46-581, 46-685; consent of instructor and Director of Clinical Training.) (3 hours a week seminar and supervision plus practicum.)

46-688. Introductory Practicum in Clinical Neuropsychology

Students will work with mock clients as they develop their neuropsychological assessment skills; and observe more advanced students conducting neuropsychological assessments. After demonstrating basic mastery of test administration and clinical interpersonal skills, students will administer, score, and interpret neuropsychological measures under supervision. This course will be largely practice-based with group supervision as well as limited didactic instruction and will be co-taught with 46-689 (Intensive practicum in clinical neuropsychology). Students register for this course for three full terms (Inter/Summer, Fall, Winter). (Pre-requisite: 46-583 and consent of instructor). (Graded on a pass/fail basis.)

46-689. Intensive Practicum in Neuropsychology

Students will continue to work with clinical supervisors to design test batteries, conduct interviews and assessments, provide diagnoses, and communicate results of assessment and recommendations for intervention to clients in this year-long course. In this second year of clinical practice, students will also serve as lead assessors with assistance from more junior students. This course will be largely practice-based with group and individual supervision as well as limited didactic instruction and will be co-taught with 46-688 (Introductory Practicum in Clinical Neuropsychology). Students register for this course for three full terms (Inter/Summer, Fall, Winter). (Pre-requisites: 46-688.) (Graded on a Pass/Fail basis.)

46-690. Family Therapy I

This course covers the background theory, research, and therapeutic techniques of the major approaches to family therapy. Issues relevant to the practice of psychotherapy with different groups will be discussed. Supervised practica will be arranged with families and/or couples.

46-691. Family Therapy II

Seminar and supervised practice in family therapy.

46-692. Cognitive Behaviour Therapy I

This is the first course in a two-course series that is designed to provide a reasonably comprehensive and practical overview of cognitive-behavioural therapy (CBT). The focus in this course is on understanding the basic premises of CBT and on developing assessment, case conceptualization, and basic intervention skills. During the associated practicum, student therapists provide therapy to two clients and attend weekly supervision meetings during which videotaped sessions are reviewed and discussed.

46-693. Cognitive Behaviour Therapy II

This course focuses on how CBT is applied to a range of common clinical problems, on how CBT may be adapted and modified to meet the needs of diverse populations (e.g., clients from different ethnic and cultural groups), and on reviewing empirical support for the use of CBT. Issues related to therapist training and supervision are addressed.

46-694. Integrative Psychotherapy I

This course is designed to facilitate the student therapist's development of a personal framework for integrating theoretical concepts and therapeutic interventions across two or more psychotherapy approaches (e.g., CBT, EFT, Psychodynamic, Humanistic/Experiential) in the service of providing more individualized treatments to enhance client outcomes. Students will continue to explore personal development relevant to professional practice. Students see at least one therapy client under individual supervision. Priority is given to students in the Adult Clinical Track. (Prerequisites: enrollment in Clinical Psychology Program; 46-581; consent of instructor and Director of Clinical Training.) (Co-requisite: 46-715.) (6 hours a week, combined seminar and practicum.)

46-695. Integrative Psychotherapy II

Further development of an integrative psychotherapy framework with an emphasis on case conceptualization as applied to diverse syndromes, situations, and populations. The focus is on the therapist's ability to understand the client's situation and symptoms and to select appropriate interventions based on the therapist's own articulation of integrative psychotherapy. Students will continue to explore personal development relevant to professional practice. Students see at least one therapy client under individual supervision. Priority is given to students in the Adult Clinical Track. (Prerequisite: enrollment in Clinical Psychology Program; 46-581; consent of instructor and Director of Clinical Training; 46-694.) (Co-requisite: 46-715.) (6 hours a week, combined seminar and practicum.)

46-696. Emotion Focused Therapy I

EFT is based on current emotion theory and experiential therapy theory and research emphasizing the central role of emotion in functioning and therapeutic change. This course covers the theory, research, and therapeutic techniques used in this treatment model. Students will participate in class discussions, role play exercises, and view videotapes of expert therapists. Supervised practica will begin the end of the first semester.

46-697. Emotion Focused Therapy II

EFT is based on current emotion theory and experiential therapy theory and research emphasizing the central role of emotion in functioning and therapeutic change. This course covers the theory, research, and therapeutic techniques used in this treatment model. Students will participate in class discussions, role play exercises, and view videotapes of expert therapists. Supervised practica will begin the end of the first semester

46-701. Clinical Practicum: MA Level

Supervised experience in an approved clinical setting with a focus on the development of basic clinical skills in preparation for practice and/or research, including skills related to interviewing, use of clinical assessment instruments, case formulation, report writing, and intervention. Prior to completion of M.A. requirements, students register for this course for each semester in which they attend a practicum placement.

46-702. Clinical Practicum: PhD Level

Supervised experience in an approved clinical setting with a focus on the development of basic clinical skills in preparation for practice and/or research. Students register for this course for each semester in which they attend a practicum placement. (Prerequisite: completion of M.A. requirements and consent of the Director of Clinical Training.)

46-706. Predoctoral Clinical Internship

A one-year, full-time (or two-year, half-time) internship/residency in a CPA- or APA-accredited clinical setting. (Prerequisites: completion of all doctoral requirements except for 46-798; acceptance of dissertation proposal at time of application for internship; consent of Director of Clinical Training.)

46-707. Supervision, Consultation, and Interdisciplinary Relationships

This course explores models, ethics, and issues related to supervision and consultation in the practice of clinical psychology, and the benefits and challenges of working with professionals in other disciplines. It includes didactic, discussion, and experiential components. (Prerequisites: completion of M.A. requirements; consent of instructor and Director of Clinical Training.) (3 hours a week.)

46-715. Psychological Services and Research Center Advanced Psychotherapy Practicum

This practicum focuses on training in psychotherapy theory and practice. Emphasis is placed on advanced psychotherapeutic skills applied to various client populations and problems. Training in individual psychotherapy is the primary focus. Students may also be trained in crisis intervention and in co-therapy with families, groups, or couples. Students will continue to explore personal development relevant to professional practice. Priority is given to students in the Adult Clinical Track. (Prerequisites: completion of M.A. requirements; completion of two psychotherapy course sequences; enrolment in Clinical Psychology Program and consent of Director of Clinical Training.) (Co-requisites: 46-694 and 46-695.) (14 practicum hours a week.)

46-721. Applied Social Psychology Practicum

Problem solving in work settings, applying methods of community psychology, organizational psychology, and other fields of applied psychology. Students consult and work directly with a group or organization on a project selected for value to the organization and to the student.

46-731. Applied Social Doctoral Internship I

(500 hours of supervised internship.)

46-732. Applied Social Doctoral Internship II

(500 hours of supervised internship.)

46-741. Comprehensive Examination

Independent study for and completion of the written Comprehensive Examination. Students may register in 46-741 for a maximum of three consecutive terms. (Prerequisite: completion of M.A. requirements.)

46-794. Directed Study Major Project I

Under the guidance of the instructor, the candidate will engage in research on a discipline relevant issue, using existing data set(s), leading to the production of a final project which entails empirically grounded policy suggestions. Students will select a Project Committee, review literature and develop research question and identify data set(s). (Cross listed with 48-794)

46-795. Directed Study Major Project II

In the Summer Semester, operationalize concepts, recode variables, analyze data, write report and suggest policies. The

final project will show evidence of methodological skills, knowledge of the relevant substantive area, and ability to define policy implications based on analyzed data. (Cross listed with 48-795)

46-797. M.A. Thesis Research

46-798. Doctoral Dissertation Research

46-688 Introductory Practicum in Clinical Neuropsychology (March 2018).pdf

46-689 Intensive Practicum in Neuropsychology (March 2018).pdf46-530 Neuropathology (Oct 2017) Deleted Dec 2017.pdf

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	SCHOOL OF CREATIVE ARTS: COURSES
	STUDIO
	All graduate studio courses are directed individual studies courses. Projects will be planned and carried out in conjunction with a faculty supervisor.
	27-561. Studio Practice 1 Directed individual studio projects within the areas of research in; Painting/Drawing, Printmaking, Sculpture and Integrated Media (Video, Sound, Photography, Digital Arts). (This course is supervised by the Guidance Committee composed of two professors and the principal advisor.) (Open to M.F.A. students only.)
	27-562. Studio Practice 2 Directed individual studio projects within the areas of research of; Painting/Drawing, Printmaking, Sculpture and Integrated Media (Video, Sound, Photography, Digital Arts). This course is supervised by the Guidance Committee composed of two professors and the principal advisor. (Prerequisite: 27-561) (Open to M.F.A. students only.)
	27-563. Studio Practice 3 Directed individual studio projects within the areas of research of; Painting/Drawing, Printmaking, Sculpture and Integrated Media (Video, Sound, Photography, Digital Arts). (This course is supervised by the Guidance Committee composed of two professors and the principal advisor.) (Prerequisite: 27-562) (Open to M.F.A. students only.)
	27-564. Studio Practice 4 Directed individual studio projects within the areas of research of; Painting/Drawing, Printmaking, Sculpture and Integrated Media (Video, Sound, Photography, Digital Arts). This course is supervised by the Guidance Committee composed of two professors and the principal advisor. (Prerequisite: 27-563.) (Open to M.F.A. students only.)
	27-565 Studio Production I Through discussion, exercises and hands-on work, students explore the concepts, technologies, theories and production techniques of film and video creation and cinematic storytelling. (Lab fees may apply.)
	27-566 Studio Production II This course explores experimental and innovative approaches to media arts. The focus of the course is on experimental video, animation, video installation art, interactive art, audio/sound art, audio responsive installation, multimedia performance, and any fusion thereof. Time-based media arts environments may include sound, video, images, text and/or alternate physical feedback as triggered through interaction. (Lab fees may apply.)
	27-596. Graduate Seminar 1 The seminar addresses art methodologies in the creative research, the development of critical vocabulary and interpretations in the context of contemporary art making as well as some pedagogical concepts through lectures, group discussions, studio visits, visiting scholars and artists. The seminar provides a forum for peer critique and critical discussion on contemporary concepts related to the students' artistic research. (Open to M.F.A. students only.)
	27-597. Graduate Seminar 2 The seminar addresses art methodologies in the creative research, the development of critical vocabulary and interpretations in the context of contemporary art making as well as some pedagogical concepts through lectures, group discussions, studio visits, visiting scholars and artists. The seminar provides a forum for peer critique and critical discussion on contemporary concepts related to the students' artistic research. (Prerequisite: 27-596.) (Open to M.F.A. students only.)
	27-598. Graduate Seminar 3 The seminar addresses art methodologies in the creative research, the development of critical vocabulary and interpretations in the context of contemporary art making as well as some pedagogical concepts through lectures, group discussions, studio visits, visiting scholars and artists. The seminar provides a forum for peer critique and critical discussion on contemporary concepts related to the students' artistic research. (Prerequisite: 27-597.) (Open to M.F.A. students only.)
	27-599. Graduate Seminar 4 The seminar addresses art methodologies in the creative research, the development of critical vocabulary and interpretations in the context of contemporary art making as well as some pedagogical concepts through lectures, group discussions, studio visits, visiting scholars and artists. The seminar provides a forum for peer critique and critical discussion on contemporary concepts related to the students' artistic research. (Prerequisite: 27-598.) (Open to M.F.A. students only.)
	27-600. Special Project Directed individual artist project outside the Student's area of research. (May be repeated for credit.) (Has to be approved by the Graduate Committee and the Program Coordinator.)
	27-797. Thesis
	ART HISTORY
	The specific topics in the Directed Individual Studies in Art History and the Art History Seminar will vary from year to year,

depending upon the interests and needs of professors and students. All courses are three hours a week unless otherwise indicated.

28-600. Directed Individual Studies

This course involves examination of a particular problem in a specific area of interest in which a paper will be required. (May be repeated for credit with permission of the M.F.A. Program Coordinator.)

28-660. Seminar on Contemporary Issues

Current issues in art criticism and theory will be considered through reading, discussions, museum trips, guest lectures and research papers culminating in a seminar presentation by individual students on specific issues.

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SOCIAL WORK: COURSES

47-503. Comprehensive Social Policy Analysis

This course introduces students to the history of policy and how policies are created. Students will critically analyze the economic forces, political forces, cultural forces, social forces, and professional issues that impact social policy. Students will explore their understanding of the impact social policies have on individuals, families, organizational infrastructures, service delivery systems, and network linkages. The formulation of policy recommendations will also be addressed.

47-504. Communication Skills in Social Work Practice

This course introduces students to the various types of communication skills utilized in advanced social work practice. Through in-depth examination of intentional interviewing and counselling skills, students will explore core social work values in relation to practice situations. Content focuses on the critical analysis of particular verbal and non-verbal forms of communication. A laboratory format will be employed to build student competencies in the effective use of interactional skills with clients and client systems.

47-523. Challenges in Human Behaviour

This course examines how principle biological, psychological, and social theoretical perspectives differentially explain the etiology, occurrence, and response to common life challenges including physical illness and disability, mental illness and substance abuse, economic adversity, family and community violence, and minority status related to culture, ethnicity, or sexuality. An ecological perspective will be used to understand the individual, family, community, and societal issues related to these challenges. Both the impact of these challenges and strategies responding to these challenges will be appraised and critically analyzed.

47-531. Social Work Practice with Individuals

Students will develop a theoretical and applied understanding of foundational knowledge for advanced social work practice with individuals. Using a historical and ecological systems perspective, an emphasis is placed on multidimensional assessment and the differential application of therapeutic, supportive, educational, and resource management strategies for individuals. Specific attention is given to the needs of diverse populations in the context of social justice.

47-532. Social Work Practice with Groups

Students will critically examine the theoretical frameworks used in advanced social work practice with groups. Using an ecological systems perspective, students will use selected practice theories for social work with groups to develop knowledge, values, and skills in critical analysis, differential assessment, planning and intervention, and evaluation and termination with client groups. The challenges faced by diverse populations that affect group composition, development and processes are explored within the context of social justice. Assessment skills are used to identify group strengths, weaknesses, and challenges in formulating effective social work practice with groups.

47-533. Social Work Practice with Families

Students will analyze assessment and intervention with families. Using an ecological systems perspective, students will analyze the impact of diverse family structure and dynamics, cultural and social contexts, and the life cycle on family functioning. They will develop an understanding of their own family of origin issues as they impact self and work with families, critically analyze and differentially apply selected family therapy approaches, and appropriately apply social work values and skills when working with families.

47-534. Social Work Practice with Organizations and Communities

In this course, students will critically describe the political forces, cultural forces, social forces, and professional issues that impact working with organizations and communities. They will critically describe human diversity, human oppression, and social justice in the context of social work interventions with organizations and communities with particular attention to removing barriers to change and mobilizing or facilitating change with diverse populations. After evaluating procedures applicable to assessing organizational and community factors, students will design the implementation and facilitation of groups from an ecological perspective to advance change with clients and client systems.

47-547. Social Work Research: Practice Evaluation

This course prepares students to understand and critically evaluate use applied research in evaluating social work practice. The ideological assumptions underlying qualitative and quantitative research methods will be examined. Students will consider ethical issues as they conduct a literature review, identify a research problem relevant for interventions for diverse populations, formulate a research question and hypotheses, develop an appropriate design and methodology considering quantitative and qualitative options, and indicate appropriate analytical methods (statistical and/or qualitative).

47-550. Social Work Values, Ethics and Anti-Oppressive Practice

In this course, students will use an anti-oppressive focus to critically examine the nature, history, traditions, and issues of the social work profession as they relate to the development of a distinct theoretical knowledge-base, set of values, code of ethics, and approaches to direct and indirect practice. During the course, students will examine ethical questions and value dilemmas encountered by social workers in various fields of practice. Through value analysis and the application of ethical principles, the meaning of professionalism and its expression in social work are considered using contemporary practice case studies.

47-570. Field Integration Seminar

This seminar course focuses on the integration of academic and field work experience to advance knowledge, values, and skills as they relate to the development of advanced practice competence. Students will use structured reflection and self-

evaluation to understand their own practice in terms of values, ethics, policies, theoretical models, and agency expectations. Students will reflect upon personal values and beliefs and explore solutions to actual issues during their field placements. (This course is evaluated on a pass/fail basis.)

47-571. Master of Social Work Foundation Year Practicum

This course is offered in a field education setting and is designed to assure the practice of advanced social work from the ecological perspective. The foundation practicum comprises 450 hours of supervised social work practice (Prerequisites: 47-503, 47-504, 47-523, 47-531, 47-532, 47-533, 47-534, 47-547, 47-550.)

47-610. Advanced Direct Social Work Practice

This course will focus on the critical analysis of the theoretical basis for the application of a range of advanced professional social work theories and models to direct practice with diverse populations. Using ecological systems and strengths perspectives, students will analyze client empowerment and constructive transactions with the environment. Aimed at enhancing social justice, an analysis and critique of evidence-based practices with clients will be explored as vehicles to bringing about change.

47-611. Advanced Indirect Social Work Practice

Students will critically assess indirect social work practice with regards to community practice and human service organizations. Using an ecological perspective, students will examine community practice and human service organizations within the context of professional social work practice and by highlighting key indirect social work functions with a focus on community and organizational development.

47-621. Social Justice and Social Change

This seminar focuses on the critical analysis of systemic injustice. It will consider the history, meaning, consequences and dynamics of barriers that threaten, preclude or compromise the normal participation of selected vulnerable groups in social, economic and political institutions. It will critically examine concepts such as deviance, dependence, need, social control, and oppression. This critical analysis will form the underpinnings for leadership in the development and implementation of strategies for change.

47-622. Advanced Social Policy Analysis and Development

Building on the Comprehensive Social Policy Analysis course, this course focuses on the processes involved in policy formulation, implementation, and social change. Students will further refine their capacity to critically analyze social policies and generate recommendations that emanate from a global context.

47-625. Law and Social Work: Advanced Practice Research Methods and Policy Analysis

This course prepares students to use the practitioner-researcher model in the analysis of social policy, as it relates to law, in Canada. This model includes problem formation, qualitative and quantitative research design, data analysis and interpretation, and the dissemination of findings. Students will learn to apply specific analytic frameworks and theories, drawn from law and social work, to issues of Canadian social policy. In addition, students will learn essential elements of program evaluation including needs assessment, program logic models, implementation and process evaluations, and impact evaluations. Particular attention will be given to the implications of social policy for vulnerable and oppressed populations. Credit Weight 4.0. (Crosslisted with Law 98-930.)

47-626. Advanced Seminar in the Theory and Practice of Social Work and the Law

This seminar focuses on the intersection of law and social work in theory and practice. It will prepare students to think critically about the interrelationship between law and social work, both as disciplines and professions, and to identify and analyze theoretical and substantive areas of compatibility and tension. The challenges of interdisciplinary practice will be considered, with a particular emphasis on ethical norms and the advancement of social justice. (Open to MSW/JD students only, or with the permission of both program areas.) (Credit Weight 4.0. Cross listed with Law 98-931.)

47-640. Program Design and Evaluation

This course prepares students to use the evidence-based practitioner-researcher model to critically evaluate social work practice with organizations and communities. Student will learn essential elements of program evaluation including needs assessments, program logic models, implementation and process evaluations, outcome evaluations, and impact efficiency evaluations. Students will design programs and develop evaluation proposals, and will learn how to disseminate the results of program evaluations.

47-680. Advanced Internship Seminar

This capstone course must be taken concurrently with students' advanced practice internship 47-681. This course provides a structured forum for students to discuss, synthesize and integrate the knowledge they have acquired throughout the program including practice theories, professional ethics, policy development, research and program evaluation. Students utilize peer and instructor consultation to apply best practices which includes developing a research or evaluation proposal based on a need identified by their placement. This proposal is developed outside the students' placement hours and is presented as a poster presentation in a public forum.

47-681. Advanced Practice Internship

This course is offered in a field education setting. Students develop skills which will equip them for leadership in advanced social work practice. The internship comprises 450 hours of supervised social work practice. (Prerequisites: 47-610, 47-611, 47-621, 47-622, 47-640.)

47-720. Epistemology and philosophy of science in Social Work

This course examines the epistemological foundations of social work research. The nature of knowledge, the different ways we come to know, and the social process in the distribution of knowledge are discussed. Critical analysis of the historical

context, philosophical assumptions, and current debates related to each paradigm--positivist/postpositivist, interpretative, critical and postmodernism are explored. Students identify their own standpoint with respect to their dissertation research. The process by which social work researchers can advance evidence for practice within social justice principles for each of the available paradigms is emphasized.

47-730. History and Theory in Social Work

This course provides an in-depth examination of the development of the social work profession over the last one hundred years. An exploration of the impact of changing social, political, economic, moral, and historical contexts on the practice, theoretical and scholarly orientations of the profession will be highlighted. Key debates regarding the mission and development of professions in general and social work in particular; the relationship between practice, scholarship, and social policy; and tensions between disciplinary (and inter-disciplinary) approaches to social work knowledge development will be discussed within its national and international contexts. This seminar will also provide an examination of selected issues facing the profession today.

47-740. Qualitative Methods in Social Work Research

This course provides an overview of qualitative research design and application. It is intended to facilitate students' understanding in both designing, and in implementing their doctoral dissertation research or a sample of research involving qualitative methods. A number of designs are discussed as well as debates related to the position of the researcher, interviewing, ethics and diversity. The contribution of qualitative research to current models/issues of evidence-based social work practices, knowledge, truth and representation is also discussed. (3 lecture hours)

47-741. Qualitative Data Analysis

This course examines various approaches to qualitative data analysis and their grounding in various theoretical foundations. Students learn and practice multi-level approaches to data analysis, using software applications as data organization tools. Building on the qualitative methods course, students articulate the reasons for choosing certain approaches to analysis, referring to their consistency with various methodologies and theoretical foundations. The course applies the standards for rigour in qualitative analysis as a tool for evaluating various approaches.(3 lecture hours)

47-743. Quantitative Methods in Social Work Research

This course introduces students to quantitative research methods, including research designs, sampling methods, standardized measures, questionnaire design, meta-analysis and ethical consideration in conducting research. The course also covers the operationalization of social science concepts and scale construction, validity and reliability, and measurement error. Students gain knowledge about the current trends in evidence-based practice..(3 lecture hours)

47-744. Quantitative Data Analysis

This course provides an examination of the principles of quantitative data analysis with a focus on conducting and interpreting common bivariate and multivariate statistical procedures used in social science research. Parametric and non-parametric approaches are examined. Students gain competency in the assumptions underlying statistical tests, the criterion for test selection, and the utilization of computer software analysis for analyzing small and large datasets..(3 lecture hours)

47-795. Dissertation Seminar

This course guides students through the process of developing a dissertation proposal. It covers each step of the research development process, from examining current knowledge to a description of how the data analysis will be conducted. It encourages students to consider the most appropriate methodology for their purposes (i.e., mixed, qualitative, and quantitative approaches). Students will also be supported through the process of obtaining approval for their project from the University of Windsor Research Ethics Board..(3 lecture hours)

47-797. Thesis

The thesis will integrate knowledge of research and evaluation methods to promote the acquisition of evidence-based practice to specific vulnerable populations. The thesis is supervised by the student's thesis committee..(3 lecture hours)

*Given annual enrolment numbers, 47-680 and 47-696 may be offered together, concurrently in module formats.

47-798. Dissertation Research

Students work with a supervisor and committee to develop and implement an original research investigation. The results will be embodied in a professionally organized and written dissertation conforming to the requirements outlined in the School of Social Work Ph.D. Manual and by the Faculty of Graduate Studies. The dissertation is expected to be of the highest quality and suitable for publication (graded pass/fail).

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY: COURSES

All courses listed will not necessarily be offered in any given year.

All courses are taught as seminars.

48-600. Sociological Theory

A seminar on current and emerging trends in social theory from social constructionism to world systems theory, including contemporary debates on impacts of globalization, modernity and postmodernity, and the recovery of neglected voices in sociological theory.

48-601. Classical Social Theories and Beyond

A seminar on creative, critical, and reflexive modes of theoretical development and appropriation grounded in sections of classical social theory. Topics covered may include causality, power, justice, love, sexuality, the family, class, solidarity, religion, science, ideology, culture, state formation, and cosmopolitanism. Attention will be given to the discursive formation of the social sciences and epistemological, ontological, and normative debates.

48-602. Social Theory and Social Justice

A seminar to develop the theoretical foundations of doctoral research by critically examining the location of research and researchers in the global system, presumptions concerning human subjectivity and empowerment, and the conceptualization and practice of social justice. (Prerequisite: permission of instructor.)

48-605. Quantitative Statistics and Analysis

Construction and testing of regression and logit models, sampling and questionnaire construction. Additional topics may be selected in view of the needs and interests of students.

48-606. Qualitative Methodology

Examination and practice of qualitative methods used in social research. An examination of Students will critically examine the ethics and politics of research. The course is primarily designed to provide MA course-stream students with an opportunity to engage in various research methods and debates in the field.

48-607. Survey Data

Student will work in teams to develop questionnaires, gather data, and prepare them for analysis. Extensive reading will be required on sample design, questionnaire design, and survey administration. (2 lecture, 1 laboratory hour each week.) (Cross listed with 46-507)

48-608. Data Analysis

Students will explore their data and test hypotheses, drawing on methods from other graduate data analytic courses. Students will be required to write a final report which emphasizes communicating findings to non-specialists. (2 lecture, 1 laboratory hour each week.) (Cross listed with 46-508)

48-615. Statistics and Quantitative Methods

Sociological applications of structural equation modeling, hierarchical modeling, log-linear models, multinomial and ordinal logits, consideration of the strengths and limitations of quantitative sociology and political issues in its exercise. (Prerequisite: 48-605 or permission of instructor.)

48-616. Qualitative Research Design

An exploration of the epistemological assumptions and analytical tools that underpin the design of students' qualitative research projects. Students will be exposed to a variety of research issues in areas such as of sociological field work, select ethnographic techniques, the analysis of documents, and participatory action research. The course is designed to assist students in examining and employing specific qualitative methods to assist in the development of developing the methodological component of their thesis or PhD proposal.

48-620. Social Movements and Popular Mobilization

Seminar on the theory and research of large-scale transformations through historical and cross-cultural examinations of such topics as the development and impact of social movements, states and social revolutions, and the mobilization of people around issues concerning human rights, working conditions, racism, gender, sexuality, environment, peace, poverty, and globalization.

48-621. Social Inequality and the State

Seminar on the theory and research of structured inequality in the national and international context. The focus will be on the role of the state in creating, sustaining and altering different aspects of inequality in terms of resource attainment, political ideology and behaviour. Policy related issues may include globalization, family, sexuality, multiculturalism, immigration, employment, crime, education, health and welfare.

48-625. International Development and its Discontents

Seminar on the central theoretical and empirical issues raised in understanding the ways in which national and global processes of socio-economic development are experienced locally.

48-630. Work and Social Change

This course examines current research and theoretical approaches in the sociology of work with an emphasis on understanding the relationship between the transformation of work and broader social change in class, gender and ethnic relations. Areas of concentration may include the organization of production, worker control and resistance, state labour policies and legislation, unemployment, labour market segregation, and globalization.

48-640. Race and Ethnic Relations

A comparative analysis of race and ethnic relations focusing on such issues as ethnic stratification and mobility patterns, assimilation and cultural pluralism, and policies and legislation governing multiculturalism, employment equity and collective rights.

48-650. Family Relations and Gender Politics

An examination of historical and contemporary debates on gender politics within the context of family formation and social change in Canada. Special attention will be given to the gender division of labour, sexuality, economy and class, and to related social justice issues such as state regulation of marriage, divorce, child care and procreation, reproductive engineering and rights, and ideological power structures and practices that construct family members in particular social and cultural contexts.

48-655. Sexualities and Social Justice

This course will investigate the relationship between sexuality, power inequalities and social change. This may include an examination of the impact of globalization processes on sexualities, the development of lesbian, gay, bisexual, transgender and queer identities and movements, the racialization and gendering of sexual identity (and the sexualization of racial, ethnic and gender relations), the criminalization of sexualities, and the construction of sexual 'health'.

48-661. Crime and Exclusion

An exploration of research and theory on the conception, construction, and production of crime and other exclusionary processes. Substantive topics may include violence, victimization and the impact of culture, borders, inequalities, and regulatory agencies on crime and deviance.

48-662. Security and Regulation

An examination of research and theory on the regulatory agencies of criminal law and social policy (e.g. courts, police, corrections, social service agencies), modes of regulation (e.g. discipline, surveillance, detention) and their application (e.g. to bodies, spaces, borders and subjectivities).

48-664. Contemporary Criminological Theory

An advanced analysis of social theories in Criminology. Various perspectives will be covered including feminist, Marxist, cultural, postmodern, and constructionist theories.

48-665. Law and Governance

This course examines perspectives on moral regulation, the social construction of law and law as governance. The focus will be the analysis of various forms of law, policy and regulation. Substantive issues to be covered may include sexuality, immigration and exclusion, labour and economic policies, drug policies and communication, or cultural policies.

48-667. Current Issues in Criminology

An examination of contemporary research in criminology, deviance, and/or social justice. Students will critically engage with the results of recent research central to these areas of investigations

48-668. Critical Perspectives on Policy Development

This course provides an in-depth study of the process of policy formation, development, and implementation in the area of crime and criminal justice broadly defined.

48-669. Culture and Globalization

This seminar course uses cultural perspectives to explore processes of globalization. Topics may include migration, mass mediated practices, transnational organizations, work and employment, and human rights.

48-671. Critical Cultural Studies

A critical examination of popular culture within contemporary social and cultural contexts. Topics may include: media representations of crime/criminality/criminal justice, gender, sexuality, race/ethnicity; the role of power and inequality in cultural production; myth; ideology; and how media and popular culture inform and impact various forms of social policy.

48-674. Health and Social Justice

Examines the social construction, production, and subjectivities of health and illness with reference to a variety of social justice developments and policy issues.

48-680. Subordination, Identity and Empowerment

A micro level examination of the effects of subordination on everyday life in the generation of acquiescence and resistance, including the use of discourse in identity formation and popular ideologies.

48-687. Selected Topics in Sociology

This course involves an examination of a selected topic within Sociology based on new developments in particular areas, special faculty interests, and opportunities afforded by the availability of visiting professors. Topics covered will vary from semester to semester.

48-690. Directed Readings: Development of the Thesis Proposal

Students will register for this course with a faculty advisor in their declared area of specialization with the purpose of

developing a thesis proposal. (Available for credit only in the MA program by thesis.)

48-794. Directed Study Major Project I

Under the guidance of the instructor, the candidate will engage in research on a discipline relevant issue, using existing data set(s), leading to the production of a final project which entails empirically grounded policy suggestions. Students will select a Project Committee, review literature and develop research question and identify data set(s). (Cross listed with 46-794)

48-795. Directed Study Major Project II

In the Summer Semester, operationalize concepts, recode variables, analyze data, write report and suggest policies. The final project will show evidence of methodological skills, knowledge of the relevant substantive area, and ability to define policy implications based on analyzed data. (Cross listed with 46-795)

48-797. MA Thesis

48-798. Doctoral Dissertation

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DEFERRED APPLICATIONS

Offers of admission are made for a specific term, and, with the approval of the program, acceptance may be deferred for the next available term only. Students wishing to be considered for admission at a later date will normally be required to complete a new application and to resubmit their documents.

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DOCUMENTATION REQUIRED AND ENGLISH LANGUAGE PROFICIENCY REQUIREMENT

All documents received become the property of the University and will not be returned.

Action will be taken on an application for admission when all the documents listed below have been received:

- 1) The online application form properly completed.
- 2) One copy of official or unofficial transcripts of all undergraduate and graduate work from all colleges or universities attended. If an offer of admission is extended on the basis of unofficial transcripts, final official transcripts must be submitted by the deadline on the offer of admission.
- 3) Completed Confidential Report forms as required.
- 4) Any additional program requirements, e.g., GMAT, GRE, writing sample, portfolio
- 5) For applicants whose native language is not English, see the [Senate Policy on Graduate English Language Proficiency Requirement](#).
- 6) For applicants whose native language is not English, see the [Senate Policy on Graduate English Language Proficiency Requirement](#).

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ADMISSION LEVELS

Master's Qualifying Admission (M1): An applicant who holds a three-year degree in the discipline to which s/he is applying, or a four-year degree in another discipline, may be admitted as a qualifying student, with a recommendation for advancement to the M2 level contingent upon completion of a prescribed set of qualifying courses, with a minimum grade as specified by the program. Since qualifying students are not candidates for a degree, a qualifying student is not considered a graduate student.

Regular Admission (M2): Applicants who hold a four-year degree or equivalent in the discipline to which they are seeking admission may be admitted to this level.

Transitional Admission (M2): An applicant who holds a four-year degree, but not one in the discipline to which s/he is applying, may be admitted to a Master's program as a transitional student. Transitional students are normally required to complete a program of no more than five specified undergraduate courses in addition to the graduate courses required of regular students. Upon completion of these extra courses, with a minimum grade as specified by the program, the student may continue in the Master's program as a regular student.

Probationary Admission (M2): An applicant who does not meet the minimum departmental program admission requirements, but who can present evidence of leadership, and/or substantial related work experience, may be considered for probationary admission upon the recommendation of the program. Students who are accepted on probation will be required to satisfactorily complete two specified graduate courses in the first term, in addition to any other admission requirements, before conditions are waived. Graduate credit will be given for the graduate courses after the conditions are waived. The final decision on probationary admission rests with the Faculty of Graduate Studies

PhD.: Applicants who hold a Master's degree or, in exceptional cases, a four-year Bachelor's degree, may be admitted to this level.

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CATEGORIES OF REGISTRATION

It is the expectation that all graduate students are admitted on a full-time basis, although some programs may offer part-time admission on an exceptional basis.

1) *Full-Time Student*: A student who is admitted to a program on a full-time basis and is one who is geographically available and visits the campus regularly. Graduate students must be continuously present at the university for each term in which they are registered. It is understood that a graduate student may be absent from the University while still under supervision, e.g., visiting libraries, attending a graduate course at another institution, doing field work, etc. Any such absence from the University must be approved by the program.

2) *Part-Time Student*: Some graduate programs are available on a part-time basis, and students may be admitted to such programs as part-time registrants. Students must petition the Graduate Program and Faculty of Graduate Studies for permission to transfer to part-time status. Part-time registration in full-time programs may be granted in exceptional circumstances and only with the approval of both the Graduate Program and Faculty of Graduate Studies. Supporting documentation must be submitted with the request. Students interested in part-time studies should first consult the program.

Full-time employees of the University enrolled in graduate programs may only have part-time status.

Note: Part-time students may not take more than one course in any term. Concurrent registration in a course and in a thesis or dissertation (not major paper) will be permitted.

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GRADUATE REGISTRATION REGULATIONS

1) Graduate students must register before the appropriate deadline or they will not receive credit for academic work they may be doing during the term. Note: Registration is not complete until the appropriate fees have been paid.

Students completing all requirements for the degree within the first few weeks of a term may be eligible for a tuition refund for that term. (Consult the Faculty of Graduate Studies.)

2) Full-time students are required to maintain continuous registration through all terms of their graduate program. Failure to do so will require application for readmission to their program and payment may be required for terms missed, up to a maximum of three terms.

3) In accordance with the circumstances listed below, a student may apply to the Dean of Graduate Studies for, and may be granted, a leave of absence.

Maternity Leave: Graduate students may request a maternity leave for no more than three consecutive terms without prejudice to their academic standing. Time limit/funding eligibility will be extended by the duration of the leave.

Paternity Leave: In recognition of a father's role, a graduate student may request paternity leave for no more than one term without prejudice to their academic standing. Time limit/funding eligibility will be extended by the duration of the leave.

Parental Leave: Parental leave is intended to recognize that there may be a need for a pause in studies in order to provide full-time care in the first stages of parenting a child. Either or both parents may request one term of leave without prejudice to their academic standing. The request for leave must be completed within twelve months of the date of birth or custody. Time limit/funding eligibility will be extended by the duration of the leave.

Financial Leave: In the case of financial necessity, primarily as evidenced by the support awarded through the University, a student shall be granted a leave of no more than one term out of three upon application (not available to part-time students.) Time limit/funding eligibility will not be extended by the duration of the leave.

Medical Leave: Graduate students may apply for a leave of absence on medical grounds for up to three terms without prejudice to their academic standing. Students are required to provide documentation to support a medical leave of absence. Time limit/funding eligibility will be extended by the duration of the leave.

Personal Leave: Graduate students may apply for a leave of absence on grounds of serious personal circumstances for up to three terms. Time limit/funding eligibility will be determined on a case-by-case basis.

A term is defined as a four-month period coinciding with the academic calendar (January to April; May to August; and September to December).

While on leave, a student will not have access to any university resources, including office space, computer access, library facilities, continuation of laboratory experiments, computer research applications, and guidance by faculty members.

Apart from the combination of maternity or paternity and parental leave, sequentially combining two leave of absence classifications is allowable only in special and extenuating circumstances.

Applications for a leave of absence must be submitted to the student's department for recommendation before the end of the second week of the term. A student on leave of absence will be assessed a fee per term. Appeals against any decisions shall be heard promptly by the Faculty of Graduate Studies.

4) Part-time students must register in every session in which the facilities of the University are to be utilized, whether in residence or off-campus. This includes those who are consulting with faculty members while working on a major paper, thesis, or dissertation. Part-time students who have not registered for more than one term will be required to apply for readmission, and their applications will be considered on their merits in the light of the then prevailing conditions and circumstances.

5) Students are reminded that they will not receive credit for courses for which they are not properly registered or for courses completed during terms in which the student has not paid fees.

Once a student has registered, course changes or withdrawal after the published deadlines require permission from the Dean of Graduate Studies. Subjects dropped without permission from the Dean will be regarded as failures.

Non-Degree Registration: A student who is not interested in admission as a degree student may be allowed to register for individual courses on a non-degree basis. The maximum number of courses taken overall on this basis is two. Only students who have been admitted to a graduate program may receive graduate credit at the University of Windsor for courses taken.

Audit Student: An audit student in any course is one who attends the course without credit toward a degree or program. Such a student will not be allowed to write examinations and cannot be graded in any way. The student will pay the regular fees for the course(s).

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PhD ADMISSION REQUIREMENTS

Graduates of recognized universities may apply for admission. In general, admission to graduate study is granted only to those students who have good academic records and who are adequately prepared to undertake graduate work in their field of specialization. In particular, an applicant for admission to a graduate program leading to the degree of Doctor of Philosophy must have either a Master's degree or, in exceptional cases, a four-year Bachelor's degree, or the equivalent; with a minimum average of 77% (or equivalent).

Possession of the minimum requirements does not ensure admission.

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PhD PROGRAM REQUIREMENTS

Residence: Residence requirements are intended to provide for each student an adequate contact with the University, with the faculty in the field of specialization, and with the library, laboratories, and other facilities for graduate study and research. Every student in a program leading to the degree of Doctor of Philosophy must be registered in a full-time program of study for a minimum of three calendar years, normally in succession. Credit for one of these years may be given for the time spent in proceeding to a Master's degree.

Credit for no more than one-half of the required courses for a program, taken at another university, may be given at the discretion of the Faculty of Graduate Studies, upon recommendation of the program.

A full-time residence year indicates that a student is in full-time work under the direction of a faculty member at the University of Windsor.

Candidacy: Admission to graduate study does not imply admission to candidacy for a degree. Admission to candidacy for the degree of Doctor of Philosophy is granted by the Dean of Graduate Studies, upon recommendation of the program concerned, when a student has satisfied the requirements for candidacy of the Faculty of Graduate Studies and of the program, as may be specified in program listings in the calendar. Admission to candidacy is normally to be regarded as recognition that a student has given adequate evidence of superior capability and achievement in graduate study. A student may not be admitted to candidacy for the degree of Doctor of Philosophy before passing a comprehensive examination in the field of specialization.

Time Limit: A student admitted to a Ph.D. program must complete all requirements for the Ph.D. within six consecutive years.

If an extension of the time limit becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.

Course of Study: Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program coordinator or a designated departmental advisor. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program.

Since in several programs only a few courses listed will be offered each year, students are advised to ascertain from the program area which courses will be offered in any given year.

In consultation with their program area, all students must complete an Annual Report, which is to be submitted to their department by May 31 of each year.

It is expected that students working toward the degree of Doctor of Philosophy will maintain a superior average in all course work. Normally, graduate credit will be given only for courses in which a minimum 70% grade has been achieved. [See also Senate Policy on Grading and Calculation of Averages.](#)

Committees: Research undertaken as part of a doctoral program is normally directed by a faculty supervisor and advised by a doctoral committee.

By the end of the first term of registration in the dissertation, the program will recommend the appointment of members of the doctoral committee, whose appointments must be approved by the Faculty of Graduate Studies. At the same time the candidate will be required to validate the *Non-Exclusive License to the University of Windsor* authorizing the University to archive, reproduce, and distribute the dissertation.

The doctoral committee will consist of a research advisor from the program, who is a member of graduate faculty, two other faculty members in the program, and one from another program area at the University of Windsor. Additional members may be added with the approval of the program and the Faculty of Graduate Studies. This committee will, from time to time, review the student's progress.

The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status.

The doctoral committee is also charged with conduct of the final examination of the doctoral candidate (see below).

For the defense of the dissertation (final oral examination), the committee will be supplemented by an independent, external examiner who, as an expert in the field in which the candidate's research is carried out, will appraise the dissertation and ordinarily will also be present at the final oral examination.

The external examiner will be recommended by the doctoral committee, subject to the approval of the program area and the Dean of Graduate Studies. The external examiner must not be involved in the preparation of the dissertation before it is submitted to him or her for final evaluation.

If the research involves information gathered from or about human participants (including primary data collection, use of

human biological materials, and secondary uses of information), the faculty supervisor and graduate student are responsible for the ethical conduct of the study, the completion of the project as described in the ethics application cleared by the Research Ethics Board (REB) and the protection of the rights and welfare of human participants. The supervisor ensures that all required clearances and permissions are obtained prior to commencement of the research. The graduate student and faculty supervisor submit an application to the Research Ethics Board REB Research involving human subjects cannot begin until ethics clearance has been obtained. (Consult with th REB .)

All research conducted at the University of Windsor is subject to the institutional policies as described in *Research Integrity and the Responsible Conduct of Research* and *University of Windsor Guidelines for Research Involving Human Research Participants*. If the research involves animal care, biohazards, health and safety, radiation, or any other procedure that requires certification, the supervisor of the research is responsible for obtaining prior approval from the respective committees. (Consult with the Office of Research and Innovation Services)

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PhD DISSERTATION

A dissertation embodying the results of an original investigation in the field of specialization is required of all candidates for the degree of Doctor of Philosophy.

The regulations of individual programs should be consulted for details of their dissertation procedures. The general format is prescribed in the *Guidelines for Major Papers, Theses, and Dissertations*, which may be obtained from the Faculty of Graduate Studies or from www.uwindsor.ca/graduate. Within the dissertation, the student should use formats approved for scholarly publication in the field of specialization and approved by the program. Final checking of the general format of the dissertation is the responsibility of the Faculty of Graduate Studies, but the student should consult the doctoral committee for instructions as to the internal form of the dissertation.

Copies of a Ph.D. dissertation are to be provided to all members of the doctoral committee and two copies to the Faculty of Graduate Studies, of which one copy will be transmitted to the external examiner, at least four weeks before the expected date of defense. Before the dissertation is forwarded to the external examiner, all members of the doctoral committee must read and provide feedback on the dissertation, and it must be approved by the majority of the committee. No changes may be made to the dissertation document or composition of the doctoral committee between these deadline dates and the defense except under the most extraordinary circumstances and with approval of the Executive Committee of Graduate Studies. The oral presentation should be completed at least three weeks prior to the Convocation for which the candidate has applied to receive the degree. A public notice of defense must be received in the Office of Graduate Studies and posted in the academic unit at least eight days in advance of the oral presentation.

A doctoral committee shall notify the Faculty of Graduate Studies whether, in its view, notice of defense is to be posted, but the decision to proceed shall be contingent upon the report of the external examiner to the Dean of Graduate Studies.

The candidate will present the dissertation at a public defense. The Chair of a Ph.D. defense will be the Dean of Graduate Studies or designate, such as the Associate Dean of Graduate Studies, Dean of a Faculty or senior member of graduate faculty from outside the program, to be named by the Dean of Graduate Studies at the time the defense is publicly announced. The chair is non-voting. Questions will be permitted from the general audience at the discretion of the chair. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held in camera.

The minimum basis for acceptance of a Ph.D. dissertation shall be positive unanimity less one vote providing the dissenting vote is not by an external examiner who is present at the defense, and the chair of the defense determines that the examination by the external examiner has been fair to the candidate. Unless an examining committee is unanimously negative, a candidate may resubmit the dissertation once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.

The dissertation must be deposited with the Faculty of Graduate Studies at least two weeks prior to Convocation.

Arrangements for the deposit, including online electronic submission, binding the dissertation and payment of binding fees, where applicable, should be made with Graduate Studies. The University will add the dissertation to the "Scholarship at UWindsor" online institutional repository and transmit a copy of the dissertation to Library and Archives Canada, under the authority of a "Thesis/Dissertation Non-Exclusive License", supplied by the Faculty of Graduate Studies and validated by the candidate. The license authorizes Library and Archives Canada and Leddy Library to publish, reproduce, and transform the dissertation in any format, print or online.

The deposited dissertation becomes the property of the University.

Occasionally, it is necessary to withhold the dissertation from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis may be held from the public domain, i.e., the online repository, the Leddy Library and Library and Archives of Canada. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding dissertation are available from the Faculty of Graduate Studies.

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PHD DISSERTATION REQUIREMENTS SYNOPSIS

- 1) Dissertation format must be as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the dissertation must be provided to all committee members and two copies to the Faculty of Graduate Studies at least four weeks before the oral defense, which must occur at least three weeks prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of defense must be received in the Faculty of Graduate Studies and posted in the academic unit at least eight (8) days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit the dissertation in the Faculty of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) The candidate will validate a "Thesis/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing Library and Archives Canada to publish and reproduce the dissertation.

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PhD EXAMINATIONS

In addition to the usual examinations on course work, there are three types of special examinations which that may be required (see individual program regulations) in the program leading to the degree of Doctor of Philosophy:

1) *Qualifying Examinations*: A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed within one year after a student enters a graduate program.

2) *Comprehensive Examinations*: A comprehensive examination is one in which the student is asked to demonstrate a reasonable mastery of the field of specialization; it is designed to test the student's command of knowledge and ability to integrate that knowledge, after completion of all or most of the graduate course work. Normally, these examinations are completed by the end of the second year of graduate study and are a prerequisite to admission to candidacy.

3) *Final Examinations*: The final examination of a doctoral candidate is an oral defense of the dissertation.

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MASTER'S ADMISSION REQUIREMENTS

Graduates of recognized universities may be admitted to programs leading to the Master's degree. A student with a four-year degree or equivalent in the discipline to which s/he is seeking admission, and who has an academic standing equivalent to 70% or better in the final two years of study (full time equivalent) may be admitted to a Master's program (M2).

An applicant who holds a four-year degree in a related discipline, and who has an academic standing equivalent to a 70% or better overall and in the final year of study and the major subject, may also be admitted to a Master's program as a transitional student. Transitional students are normally required to complete a program of no more than five specified undergraduate courses in addition to the graduate courses required of regular students. Upon completion of these extra courses, with a minimum grade as specified by the program, the student may continue in the Master's program as a regular student (M2).

An applicant who does not meet minimum departmental program admission requirements, but who can present evidence of leadership, and/or substantial related work experience, may be considered for probationary admission upon the recommendation of the program. Students who are accepted on probation will be required to satisfactorily complete two specified graduate courses in the first term of registration, in addition to any other admission requirements, before conditions are waived. Graduate credit will be given for the graduate courses after the conditions are waived. The final decision on probationary admission rests with the Faculty of Graduate Studies.

An applicant who holds a three-year degree in the discipline to which s/he is applying, or a four-year degree in another discipline, and who has an academic standing equivalent to 70% or better overall and in both the final year of study and major subject may be admitted as a qualifying student, with a recommendation for advancement to M2 level contingent upon completion of a prescribed set of qualifying courses, with a minimum grade as specified by the program. Since qualifying students are not candidates for a degree, a qualifying student is not considered a graduate student (M1).

Applicants are urged to apply as early as possible to enable the program and the Faculty of Graduate Studies to evaluate qualifications.

Possession of the minimum requirements does not ensure admission.

Candidacy: A student in an M2 program is also a candidate for the Master's degree. Students in the two-year M1 program followed by the M2 program are not admitted to candidacy until they have satisfactorily completed the M1 program. A positive recommendation from a program and approval of that recommendation are required for a student to proceed to the M2 program.

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Programs	MASTER'S PROGRAM REQUIREMENTS
Programs (Listed Alphabetically)	<i>Residence:</i> Residence requirements are intended to provide for each student an adequate contact with the University, faculty in the field of specialization, the library, laboratories, and with other facilities for graduate study. It is expected, therefore, that every full-time student in a program leading to the Master's degree will undertake a full program of study at the M2 level for a minimum of one calendar year or its equivalent. Application and interpretation of the residence requirement is the responsibility of the Dean of Graduate Studies. If a student does not expect to fulfill the residence requirement in the normal way, reasons for departing from the norm should be submitted in writing to the Dean and approval secured for the plan before beginning the graduate program. See also the section on "Duration of Study" below.
Programs (Listed by Department)	
Programs (Listed by Faculty)	The residency requirement is not intended to apply to students admitted to graduate programs on a part-time basis.
Graduate Diploma Programs	<i>Duration of Study:</i> The minimum duration of study for the Master's degree is one calendar year beyond the honours Bachelor's degree, or its equivalent. Credit for no more than one-half of the required courses for the program taken at another university may be given at the discretion of the Dean of Graduate Studies, upon the recommendation of the program. Residency still applies.
Courses	<i>Time Limit:</i> Work on a Master's degree must be completed within three consecutive calendar years after the student's first registration, except for certain Master's programs available on a part-time basis. In these latter programs, the time limit will depend on the nature of the program, but will not normally exceed five consecutive years.
Alphabetical by Department	If an extension of these time limits becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.
Admission Information	<i>Course of Study:</i> Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program area. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program area. Students are directed to obtain the approval of the program area for changes in the program of study. Training in methodology may be required, at the discretion of the program.
Application Information	In consultation with their program, all students must complete an Annual Report which is to be submitted to their program by May 31 of each year.
Awards and Financial Aid	Students working toward the Master's degree must maintain at least a 70% average in all course work. A candidate for the Master's degree who does not obtain graduate credit in any course may repeat the course once only, and not more than one course may be repeated. Normally, graduate credit will be given only for courses with a minimum grade of 70%. See also Senate Policy on Grading and Calculation of Averages.
Registration	<i>Committees:</i> Research undertaken as part of a Master's program is normally directed by a faculty supervisor and advised by a Master's committee. By the end of the first term of registration in the thesis, the program will recommend the appointment of members of the Master's committee, whose appointments must be approved by the Faculty of Graduate Studies. At the same time the candidate will be required to validate the <i>Non-Exclusive License to the University of Windsor</i> authorizing the University to archive, reproduce, and distribute the thesis.
Academic Regulations	The Master's thesis committee will include as a minimum an advisor from the program, who is a member of graduate faculty, and two other University of Windsor faculty members, one of whom shall belong to a program other than the one in which the student is obtaining the degree. Additional members may be added with the approval of the program and the Faculty of Graduate Studies.
Faculty Regulations	The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status, see Senate Policy on Graduate Faculty Designation.
Additional Degrees	The Master's committee is also charged with conduct of the final examination of the Master's candidate (see below).
Exam and Grading Procedures	If the research involves information gathered from or about human participants (including primary data collection, use of human biological materials, and secondary uses of information), the faculty supervisor and graduate student are responsible for the ethical conduct of the study, the completion of the project as described in the ethics application cleared by the Research Ethics Board (REB) and the protection of the rights and welfare of human participants. The supervisor ensures that all required clearances and permissions are obtained prior to commencement of the research. The graduate student and faculty supervisor submits an application to the REB. Research involving human subjects, cannot begin until ethics clearance has been obtained. (Consult with REB.)
Authorship and Plagiarism	All research conducted at the University of Windsor is subject to the institutional policies as described in <i>Research Integrity and the Responsible Conduct of Research</i> and <i>University of Windsor Guidelines for Research Involving Human Research Participants</i> . If the research involves animal care, biohazards, health and safety, radiation, or any other procedure that requires certification, the supervisor of the research is responsible for obtaining prior approval from the respective committees. (Consult with the Office of Research and Innovation Services)
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Programs	MASTER'S THESIS OR MAJOR PAPER
Programs (Listed Alphabetically)	A thesis incorporating the results of an investigation in the field of the major subject may be required of candidates for the Master's degree.
Programs (Listed by Department)	Candidates for some Master's programs may choose, instead of the course of study including a thesis, a program requiring additional course work and/or the submission of a major paper or project on which there will be a final evaluation.
Programs (Listed by Faculty)	The Major Paper/Project is a scholarly essay/research project that shows evidence of critical analysis and understanding on a topic approved by the student's supervisor and acknowledged by the program area.
Graduate Diploma Programs	The Major Paper/Project committee will include a supervisor, who is a member of graduate faculty, and one other program faculty member. Additional members may be added with the approval of the program area.
Courses	Upon completion of the Major Paper/Project each student will deliver a public oral presentation and defense which shall be announced publicly (with a copy sent to the Faculty of Graduate Studies) at least eight days in advance.
Alphabetical by Department	The Major Paper/Project is deposited in the Faculty of Graduate Studies at least two weeks prior to Convocation.
Admission Information	The regulations of individual programs should also be consulted for details of their thesis or major paper/project requirements. Numerical grades or Satisfactory/Unsatisfactory may be assigned for theses and major papers/projects, depending on program policy.
Application Information	Although in some cases it may be acceptable for more than one candidate to make use of a common set of data or research findings, each candidate is responsible for a single-authored thesis/major paper.
Awards and Financial Aid	The regulations of individual programs should be consulted for details of their procedures. The general format is prescribed in <i>Guidelines for Major Papers, Theses, and Dissertations</i> , which may be obtained from the Faculty of Graduate Studies or from www.uwindsor.ca/graduate . Within the thesis or major paper/project, the student should use formats approved for scholarly publication in the field of specialization and approved by the program. Final checking of the general format of the thesis or major paper/project is the responsibility of the Faculty of Graduate Studies, but the student should consult the Master's committee for instructions as to the internal form of the document.
Registration	Copies of the Master's thesis must be provided to all members of the Master's committee and one copy to the chair of the defense, at least two weeks before the expected date of defense. Students are advised to ascertain from the academic unit any prior deadline established by the unit. No changes may be made to the thesis or the Master's committee between these deadline dates and the defense except under the most extraordinary circumstances and with the approval of the Faculty of Graduate Studies. The oral presentation should be completed at least three weeks prior to the Convocation at which the candidate expects to receive the degree.
Academic Regulations	No later than eight days before a proposed defense a Master's committee shall notify the Office of Graduate Studies that a notice of defense is to be posted. The chair of a Master's defense will be a member of graduate faculty who has not served on the candidate's Master's committee, and who is appointed by the Department Head at the time the defense is publicly announced. The chair is non-voting. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held <i>in camera</i> .
Faculty Regulations	The minimum basis for acceptance of a Master's thesis is positive unanimity by the examining committee less one vote. Unless an examining committee is unanimously negative, a candidate may resubmit the thesis once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.
Additional Degrees	The thesis must be deposited in the Faculty of Graduate Studies at least two weeks prior to Convocation.
Exam and Grading Procedures	Arrangements for the deposit, including online electronic submission, binding the dissertation and payment of binding fees, where applicable, should be made with Graduate Studies. The University will add the dissertation to the "Scholarship at UWindsor" online institutional repository and transmit a copy of the dissertation to Library and Archives Canada, under the authority of a "Thesis/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies and validated by the candidate. The license, authorizes Library and Archives Canada and Leddy Library to publish, reproduce, and transform the dissertation in any format, print or online.
Authorship and Plagiarism	The deposited thesis becomes the property of the University.
Graduation	Occasionally, it is necessary to withhold the thesis or major paper/project from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis or major paper/project may be held from the public domain, i.e., the online repository, the Leddy Library and Library and Archives Canada, where applicable. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding a thesis or major paper/project are available from the Faculty of Graduate Studies.
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MASTER'S THESIS/MAJOR PAPER REQUIREMENTS SYNOPSIS

- 1) Thesis or Major Paper format must be as prescribed by *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the thesis for Master's degree must be provided to all committee members, and one copy to the chair of the defense at least two weeks before the oral presentation prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of the defense must be received in the Office of Graduate Studies at least eight days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit the thesis/major paper in the Office of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) Thesis only. The candidate will validate a "Thesies/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing distribution to Library and Archives Canada.

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MASTER'S EXAMINATIONS

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EXAMINATIONS AND APPEALS

A program may require either oral or written examinations in graduate courses. By the first day of each course, the instructor must provide students with a written course outline which includes precise information concerning the following (see [Bylaw 51, Section 2: Academic Evaluation Procedures](#) for complete details):

- (a) the basis for determining the final grade in the course;
- (b) the approximate dates for tests, essays, *etc.*

Note, as per Bylaw 51, alterations in the announced procedure may be made by the instructor with the consent of the majority of the registered class.

As per Bylaw 51, a student who wishes to receive consideration on account of a serious illness or a bereavement prior to or during the examination period should communicate with either the instructor or the Head of the AAU, or designate (*e.g.*, program coordinator), offering the course as soon as possible. The form, "Consideration for Health, Bereavement, or Extenuating Circumstances (Graduate courses only)," with supporting documents (*e.g.*, a medical certificate) must be submitted. In such cases, the Instructor may grant an "aegrotat" grade on the basis of term work or assign an "incomplete" grade indicating what further work is required and the deadline by which such work must be completed. It is recommended that at least 60% of the term work be completed in these cases. The instructor's response will be forwarded by the Head of the AAU offering the course to the Dean of Graduate Studies who, on the recommendation of the program and the Academic Standing Committee, may grant aegrotat standing in the subject(s) concerned on the basis of the term mark, or approve an Incomplete grade, or grant permission for a supplemental examination.

In addition to appealing a grade informally (see [Bylaw 51, section 2.7.1](#)), students may formally appeal a grade.

Graduate appeals must be made in writing to the Dean of Graduate Studies, in accordance with the Graduate Appeals Policy as stated in Senate Bylaw 51 (Section 2): Academic Evaluation Procedures. Appeals must be received no later than three weeks after the final mark has been released by the Registrar.

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FACULTY OF GRADUATE STUDIES: GENERAL COURSES

The Theory and Practice of University Teaching

This is an introductory course designed for graduate students to enable participants to perform more effectively as university teachers, as seminar leaders, as in-service trainers, and as public speakers. Empirical principles of learning and teaching will be introduced that are appropriate to the university classroom. Educational research will guide the approach taken in the course and will be used as the theoretical basis for course content. This course is a non-credit course and, upon successful completion, will appear on the student's transcript.

The following course will be open to students in various disciplines.

01-500. Current Issues in Argumentation Theory

This course will introduce students to the current leading theories and theoretical controversies in argumentation theory. It will do so from a variety of perspectives, including the logical, the dialectical and the rhetorical. It will cover such topics as rhetorical vs. epistemic uses of argument, the use of ideal models in argumentation analysis, the current state of fallacy theory, relations of argumentation theory to other fields, such as law, computer science, philosophy. Prerequisites: This graduate course requires that the student have completed an undergraduate degree. Normally, the student will have completed at least two undergraduate courses in such areas as logic (formal or informal), critical thinking, argumentation, theory of argument, rhetoric, or dialectic. (Prerequisites: permission of instructor.)

The following course is offered through the Humanities Research Group and the Office of the Dean of the Faculty of Graduate Studies.

09-599. Interdisciplinary Master's Seminar

This course will offer graduate students in English, History, Philosophy, Political Science, Psychology, Sociology, Visual Arts, and any other graduate program with a humanities component, the opportunity, in the course of their intensive, discipline-oriented training, to benefit from an interdisciplinary experience. Topics will vary from year to year (Offered over two terms.)

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ODETTE SCHOOL OF BUSINESS: COURSES

Courses below are listed according to the internal administrative units of the Odette School of Business.

All courses listed will not necessarily be offered in a particular term or year.

Special permission to enter courses without the stated prerequisites must be arranged with the Dean and the instructor involved.

FIRST-YEAR M.B.A. COURSES

76-501. Interpersonal Dynamics

Provides students with the behavioural skills to be effective in organizations. Active listening, conflict resolution, running effective meetings, *etc.*, will be taught with a great deal of emphasis on the practice of these skills. The framework for this module will be the team environment, which many successful companies are moving toward. This module will help students prepare for the teamwork which will be required by all the concurrent modules.

76-502. Core Concepts of Accounting I

An introduction to the role and importance of accounting information in the decision-making process and how to use and interpret various types of accounting information found in financial statements and annual reports. Core concepts of financial accounting will be examined, including the determination of income and the recognition, measurement and reporting of assets, liabilities, and owners' equity. The impact of ethical, regulatory and environmental aspects on the interpretation and application of accounting information will be considered.

76-503. Introduction to Financial Management

Concerned with the concepts and principles of financial management of the business enterprise within the global financial environment. After an introduction to domestic and international financial markets and instruments, the module covers the concepts of value, risk, and efficient markets followed by an introduction to capital budgeting, financial analysis and planning, and short-term financial management.

76-504. Quantitative Techniques in Management

Provides students with a basic but solid background in the quantitative techniques used by successful business organizations. This module will focus on the important aspects of probability and statistics as they relate to the effective presentation of data and to decision-making under uncertainty; and on the use of mathematical modelling as it relates to problem-solving within an organization.

76-505. Marketing Management

Introduces appropriate marketing management concepts and techniques that can be applied to private sector business as well as to not-for-profit organizations' marketing and communication activities. Emphasis will be on the marketing mix elements of product, price, place, and promotion.

76-506. Managing Employees

Familiarizes students with the knowledge, roles, responsibilities and skills required of today's managers. Three approaches will be examined: systems, process, and behavioural. The contingency view of management as the process of organizing resources to set and accomplish organizational goals will be emphasized.

76-510. Core Concepts of Accounting II

Further examines the use and interpretation of accounting information within the context of business and business decision-making. It will explore some of the ways in which accounting information may be utilized for business planning and to solve common business management problems. Core concepts of financial and managerial accounting such as financial statement analysis, tax considerations, cost-volume-profit analysis, budgeting, cost allocation, job order and process costing will be covered. As with 76-502, the impact of ethical, regulatory, and environmental aspects on the interpretation and application of accounting information will be considered. (Prerequisite: 76-502.)

76-511. Research Methodology

Provides students with a broad understanding of methodological issues in research with a specific focus on marketing. Students will develop an understanding of research issues and processes from a marketing perspective through classroom lectures as well as a hands-on, practical marketing research project. Both quantitative and qualitative methods of research will be discussed. (Prerequisites: 76-504 and 76-505.)

76-512. Financial Management

Focus is on the firm's long-term financial decisions. The sources and the mechanics of obtaining long-term financing are covered, together with the discussion of strategic decisions involving capital structure and dividends. The module includes a broader study of financial markets and instruments, including options, with applications in financial management. (Prerequisite: 76-503.)

76-513. Human Resources Management

Concerned with the role of human resources activities in facilitating the achievement of organizational effectiveness. Students will gain an understanding of the principles of human resources management and develop some skills they can apply in solving actual people problems at work. Particular attention is given to the roles of labour relations and trade

unionism as they pertain to human resources activities. Students will be provided with exposure to both a management and labour perspectives to H.R. issues.

76-514. Management Information Systems

Learn how to envision, design and evaluate computer-based solutions to typical business problems. Emphasis will be on the contemporary and emerging hardware /software tools, the managing of information, and information technology.

CANDIDATE YEAR COURSES

The prerequisite for all candidate year (600-level) courses is candidate-level standing in the M.B.A. program or equivalent preparation.

ACCOUNTING

70-650. Managerial Accounting and Analysis

Examines approaches to generating, analyzing and using accounting information in performing managerial functions such as planning, controlling, performance evaluation and decision making.

70-651. Reporting, Analyzing, and Using Accounting Information

Examines alternative approaches to generating, analyzing and using accounting information. It will emphasize the understanding and the application phases of accounting information by users. Topics include: Accounting entity-concepts of control and significant influence; accounting policy choice; internal control; elements in the consolidated financial statements, such as owners' equity, minority (non-controlling) interest and goodwill; profitability, liquidity and solvency analyses; working capital management; and business valuation.

70-659. Topics in Accounting

A reading and research seminar which deals with major concepts and important current problems in Accounting. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be announced in the previous term.

MANAGEMENT AND LABOUR STUDIES

71-600. Business Ethics and Sustainability

Business practitioners confront issues involving business ethics daily, and environmental sustainability is an important and often central component of an organization's strategic management. All organizations have an influence on, and are influenced by, their social and natural environment. Students will be exposed to the major issues of business ethics and sustainability, developing an orientation to them and acquiring related practical skills through a series of case studies, field trips, a debate, and an applied team project.

71-613. Leadership and Organizational Change

Provides an analytical framework to understand organizational transformation through (a) leadership and vision building, (b) strategic human resources planning (c) restructuring and redesigning and (d) organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

71-643. International Management

Focuses on the problems and issues that confront managers in the area of international business. Background materials, cases, and exercises will involve the students in the challenges facing the international manager. A major objective is to develop a sensitivity that will enhance the student's ability to operate in the complex environment of multicultural businesses.

71-646. Business Negotiation and Problem Solving

Highlights the role of effective negotiation for resolving conflict and sharing resources and power in complex organizations. Students will be exposed to various styles of negotiating, problem solving and bargaining strategies as well as communication approaches aimed at enhancing organizational performance.

71-647. Managing Diversity in Workplace

Addresses the dynamics of increasing diversity of the work force and the major challenges faced by organizations and their managers such as maintaining fairness and justice, making effective decisions for performance improvement, allowing flexibility and managing diversity in the global environment. The course also analyzes the legal frameworks in place which value and protect employee and employer rights related to gender, race, age, religion, sexual orientation, ability, and other dimensions of diversity.

71-648. Topics in Management and Labour Studies

A reading and research seminar which deals with major concepts and important current problems in the areas covered by Management and Labour Studies. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be announced in the previous term.

FINANCE

72-670. Investment Analysis and Management

Economic background to security analysis; types of corporate securities for investment; theory and mechanics of investment; general analysis and valuation procedures; valuation of fixed income securities and common stocks; procedures in analysis of government, industrial, financial and public utility securities; and portfolio management.

72-671. Portfolio Management

Objectives of individual and institutional portfolios. Security selection, diversification, marketability, risk and return in portfolio construction. Timing and formula plans, bond portfolio problems, performance measurement, trading problems, tax planning, supervision, quantitative techniques for portfolio management, and regulations.

72-672. Cases in Financial Management

An advanced case course in financial management. Financial concepts and principles of managing a business enterprise are illustrated. Planning for the acquisition and use of funds so as to maximize the value of the business is examined through the use of case analysis.

72-673. Topics in Finance

An in-depth study of topical issues in finance. A reading and research seminar dealing with major concepts and problems in the area of financial management. Precise topics to be covered during a term will vary according to current trends in the literature.

72-674. International Financial Management

A study of the problems facing the international financial manager. Topics include: international markets, spot and forward currency fluctuations, positioning corporate funds, investment decisions, hedging and exposure management.

MANAGEMENT SCIENCE

73-602. Topics in Management Science

A reading and research seminar which deals with major concepts and important current problems in the areas of management science, operations management, or management information systems. The precise topic to be covered in a particular term will vary according to current interest and faculty availability, and will be announced in the previous term.

73-603. Management Science Models

Study of spreadsheet-based practical quantitative decision-making models relevant to major functional areas of business. Topics include linear and non-linear programming models, network models, and simulation models for problems involving uncertainty.

73-604. Operations Management

Study of relevant topics recognized as important factors for successful management of business operations. Topics include: processes and their measurement in manufacturing and services, forecasting, aggregate planning, inventory management, quality control, and supply chain management.

73-606. Strategic Implementation for Technologies Management

Strategic management of technology and innovation in established firms. The overall course objectives are to help students gain competence in (1) understanding the basic framework for the relationships among a business strategy, an information systems strategy and an organizational strategy; (2) developing an awareness of the range, scope and complexity of the issues and problems related to the strategic management of technology and innovation; (3) developing a conceptual framework for assessing and auditing the innovative capabilities of a business organization and (4) developing insight concerning the skills necessary to be effective in managing the innovation process. The course will use SAP, an enterprise resource planning software, as a simulation tool to explore the strategic use of information systems in a large organization.

MARKETING

74-631. Consumer Behaviour

A study of analytical concepts and research techniques derived from the behavioural sciences or developed from consumer behaviour research. A significant objective of the course is the application of such concepts and techniques to the solution of marketing problems.

74-632. Marketing Research

An advanced course assuming familiarity with the conceptual research process, characteristics of basic data collection modes and measurement, hypothesis testing, regression analysis, and analysis of variance. Utilizing a discussion format, the course offers a review of current marketing research literature concerning: 1) examination of properties of familiar data collection and analysis techniques; 2) examples of their application; and 3) introduction to more advanced data collection and analysis methods.

74-635. International Marketing Strategy

A study of the problems faced by Canadian businesses when exploring and distributing to foreign markets. A significant objective of the course is to explore, through research findings, strategies that would improve Canada's international marketing efforts.

74-638. Topics in Marketing

This course is of varying content dealing with topical issues in marketing. The course might focus on a specific functional area in marketing or a particular environment for the application of marketing concepts. Administration of the course varies as appropriate with its content and might take on a literature survey, research project, experiential, or other format.

74-639. Marketing Strategy and Planning

An analysis of the formation of marketing strategies and plans. Topics covered will include business definitions, developing marketing objectives, selecting market targets, developing all aspects of the marketing mix, and evaluating marketing performance. Marketing decision models, portfolio techniques, generic strategies, PIMS, and related topics will also be covered.

BUSINESS STRATEGY AND ENTREPRENEURSHIP

75-611. Project Management I

Students devote their time to two basic tasks, learning and applying the fundamentals of project management while drawing from the knowledge and experience gathered in previous classes. Students will examine approaches to project management and apply them to projects with industry partners. Project planning and strategies for project implementation will be discussed relative to industry sectors. Problem - solving, market research, and critical - thinking skills based on scientific inquiry in business will provide students with the foundations for competencies in project management. Projects will be focused on the early stages of the industry/product life cycle, including the management of entrepreneurship, product/service introduction, and/or innovation.

75-612. Project Management II

Students devote their time to two basic tasks, learning and applying the fundamentals of project management while drawing from the knowledge and experience gathered in previous classes. Students will examine approaches to project management and apply them to projects with industry partners. Project planning and strategies for project implementation will be discussed relative to industry sectors. Problem - solving, market research, and critical - thinking skills based on scientific inquiry in business will provide students with the foundations for competencies in project management. Projects will be focused on the later stages of the industry/product life cycle, including the management of mature products/services and/or turnaround.

75-680. Managing the International Enterprise

This survey course gives students a basic understanding of the international business environment and of the decisions that managers make in international firms. The course begins by considering the historical development of international business and the current global focus of international firms. It then examines the international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location. Finally, the course briefly examines the functional decisions made in international firms-financial, marketing, operational, human resources-and issues associated with international structure and control.

75-682. Manufacturing Strategy

Examines the use of manufacturing and operations as weapons in the firm's competitive arsenal. It addresses strategic questions related to the choice of proper process technology, the determination of plant size and location, the extent of vertical integration and the continuous pursuit of quality and productivity.

75-690. Entrepreneurship: New Venture Formation and Management

Aiming at opening up the entrepreneurial option for students, this course examines entrepreneurship as an economic and a business phenomenon with special emphasis on the process of new venture creation. Through a mix of seminars, case studies, and field research, students explore the topics of finding new venture ideas, developing business ideas and business concepts, conducting feasibility studies, developing business plans, preparing deal structures and financing strategies, launching new ventures, and initial entrepreneurial management beyond the start-up phase. Students are expected to undertake a new venture creation project culminating with a detailed business plan.

75-692. Topics in Strategic Management

This is an investigation and discussion of contemporary issues in strategic management and entrepreneurship. The topics to be covered will vary from term to term according to current developments in the business world.

75-696. Enterprise Development Consulting

Students will perform business consulting and market research for local organizations, giving them opportunities to network while applying skills and knowledge learned in the classroom to real life business situations. Semester-long projects covering different business areas are performed in small supervised teams. Weekly class time is a round-table discussion format used for collaboration of ideas and strategy with the rest of the class. Students will be evaluated on participation along with formal reports and presentations regarding the projects. Highly motivated students from a variety of business-related disciplines will make-up the consulting team. (Prerequisites: Approval of instructor.) (Open to Semester 7 and above students only).

75-698. Strategic Management

This is the capstone course of the M.B.A. program. It integrates the knowledge gained in prior courses and focuses it on the functions of top management of an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment. (Prerequisites: candidate-year standing and all other required courses.)

GENERAL M.B.A COURSES

76-660. Management Skills Development

This course is designed to provide students with the management skills required for providing feedback, dealing with problem employees, coaching, and problem-solving. It is a practical course with ample opportunity for students to practice the skills in different settings and receive feedback on their performance. (Required for, and open only to, Fast Track students)

76-661. Directed Study

Under faculty supervision, students undertake an in-depth, individualized program of study to pursue a topic of relevance to business and to develop, apply, and integrate the knowledge acquired in the program.

76-701. M.B.A. Co-op Work Term I

76-702. M.B.A. Co-op Work Term II

76-711. Fast-Track M.B.A Co-op Work Term

76-796. Major Paper (weight: 2 courses)

76-797. Thesis (weight: 4 courses)

COURSES IN THE M.B.A FOR MANAGERS AND PROFESSIONALS

77-521. Core Concepts of Accounting I

An introduction to the role and importance of accounting information in the decision-making process and how to use and interpret various types of accounting information found in financial statements and annual reports. Core concepts of financial accounting will be examined, including the determination of income and the recognition, measurement and reporting of assets, liabilities, and owners' equity. The impact of ethical, regulatory and environmental aspects on the interpretation and application of accounting information will be considered.

77-522. Introduction to Financial Management

Concerned with the concepts and principles of financial management of the business enterprise within the global financial environment. After an introduction to domestic and international financial markets and instruments, the module covers the concepts of value, risk, and efficient markets followed by an introduction to capital budgeting, financial analysis and planning, and short-term financial management.

77-523. Quantitative Techniques in Management

Provides students with a basic but solid background in the quantitative techniques used by successful business organizations. This module will focus on the important aspects of probability and statistics as they relate to the effective presentation of data and to decision making under uncertainty; and on the use of mathematical modelling as it relates to problem solving within an organization.

76-524. Managing People in Organizations

Familiarizes students with the knowledge, roles, responsibilities and skills required of today's managers. Three approaches will be examined: systems, process, and behavioural. The contingency view of management as the process of organizing resources to set and accomplish organizational goals will be emphasized.

77-525. Business Research Methods

Provides students with a broad understanding of methodological issues in research. Students will develop an understanding of research issues and processes through classroom lectures as well as a hands-on practical research project. Statistical analysis and both quantitative and qualitative methods of research will be discussed.

77-531. Core Concepts of Accounting II

Further examines the use and interpretation of accounting information within the context of business and business decision-making. It will explore some of the ways in which accounting information may be utilized for business planning and to solve common business management problems. Core concepts of financial and managerial accounting such as financial statement analysis, tax considerations, cost-volume-profit analysis, budgeting, cost allocation, job order and process costing will be covered. The impact of ethical, regulatory, and environmental aspects on the interpretation and application of accounting information will be considered.

77-532. Financial Management

Focus is on the firm's long-term financial decisions. The sources and the mechanics of obtaining long-term financing are covered, together with the discussion of strategic decisions involving capital structure and dividends. The module includes a broader study of financial markets and instruments, including options, with applications in financial management.

77-533. Management Information Systems

Learn how to envision, design and evaluate computer-based solutions to typical business problems. Emphasis will be on the contemporary and emerging hardware/software tools, the managing of information, and information technology.

77-534. Managing Human Resources

Concerned with the role of human resources activities in facilitating the achievement of organizational effectiveness. Students will gain an understanding of the principles of human resources management and develop some skills they can apply in solving actual people problems at work. Particular attention is given to the roles of labour relations and trade unionism as they pertain to human resources activities. Students will be provided with exposure to both management and labour perspectives to H.R. issues.

77-536. Marketing Management

Introduces appropriate marketing management concepts and techniques that can be applied to private sector business as well as to not-for-profit organizations' marketing and communication activities. Emphasis will be on the marketing mix elements of product, price, place, and promotion.

77-620. Reporting, Analyzing, and Using Accounting Information

Examines alternative approaches to generating, analyzing and using accounting information. It will emphasize the understanding and the application phases of accounting information by users. Topics include: Accounting entity concepts of

control and significant influence; accounting policy choice; internal control; elements in the consolidated financial statements, such as owners' equity, minority (non-controlling) interest and goodwill; profitability, liquidity and solvency analyses; working capital management; and business valuation.

77-621. Leadership and Organizational Change

Provides an analytical framework to understand organizational transformation through (a) leadership and vision building, (b) strategic human resources planning (c) restructuring and redesigning and (d) organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

77-622. Maximizing the Value of the Organization

An advanced case course in financial management. Financial concepts and principles of managing a business enterprise are illustrated. Planning for the acquisition and use of funds so as to maximize the value of the firm is examined through the use of case analysis.

77-623. Marketing Strategy and Planning

An analysis of the formation of marketing strategies and plans. Topics covered will include business definitions, developing marketing objectives, selecting market targets, developing all aspects of the marketing mix, and evaluating marketing performance. Marketing decision models, portfolio techniques, generic strategies, PIMS, and related topics will also be covered.

77-624. Managing in the International Arena

Focuses on the problems and issues that confront managers in the area of international business. The course examines the international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location. A major objective is to develop a sensitivity that will enhance the student's ability to operate in the complex environment of international business.

77-625. Strategic Management

This is the capstone course of the M.B.A. program. It integrates the knowledge gained in prior courses and focuses it on the functions of top management of an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment.

77-626. Strategic Implementation for Technologies Management

Strategic management of technology and innovation in established firms. The overall course objectives are to help students gain competence in (1) understanding the basic framework for the relationships among a business strategy, an information systems strategy and an organizational strategy; (2) developing an awareness of the range, scope and complexity of the issues and problems related to the strategic management of technology and innovation; (3) developing a conceptual framework for assessing and auditing the innovative capabilities of a business organization and (4) developing insight concerning the skills necessary to be effective in managing the innovation process.

77-627. Business Negotiation and Problem Solving

Highlights the role of effective negotiation for resolving conflict and sharing resources and power in complex organizations. Students will be exposed to various styles of negotiating, problem solving and bargaining strategies as well as communication approaches aimed at enhancing organizational performance

77-628. Entrepreneurship and Intrapreneurship

Aiming at developing entrepreneurial thinking in students, this course examines entre- and intrapreneurship as an economic and a business phenomenon with special emphasis on the process of new venture creation. Students explore the topics of finding new venture ideas, developing business ideas and business concepts, conducting feasibility studies, developing business plans, preparing deal structures and financing strategies, launching new ventures, initial entrepreneurial management beyond the start-up phase and the successful development of such initiatives within a corporate environment.

77-629. Current issues in Business

This is an investigation and discussion of contemporary issues and current challenges to businesses. The topics to be covered will vary for each offering according to current developments in the business world and will be announced in the previous term.

COURSES IN THE MASTER OF MANAGEMENT

78-611. Accounting Concepts and Techniques

An examination of the core concepts of financial accounting, which includes the determination of income and the recognition, measurement and reporting of assets, liabilities, and owners' equity. Different methods of the utilization of accounting information for business planning and management problem solving will be explored. Core concepts of financial and managerial accounting such as financial statement analysis, tax considerations, cost-volume-profit analysis, budgeting, cost allocation, job order and process costing will be covered. The impact of ethical, regulatory, and environmental aspects on the interpretation and application of accounting information will be considered.

78-612. Finance in a Global Perspective

A study of concepts and principles of financial management of the business enterprise within the global financial environment. Emphasis will be placed on the contemporary and emerging hardware/software tools, information management, and information technology. Following an introduction of domestic and international financial markets and instruments, the concepts of value, risk, and efficient markets will be covered. Capital budgeting, financial analysis and planning, and short-term financial management will also be introduced. With these concepts in hand, the student will learn

how to envision, design, and evaluate computer-based solutions for typical business problems.

78-613. Managing Employees

An analysis of the knowledge, roles, responsibilities, and skills required of today's managers. Three approaches will be examined: systems, process, and behavioural. An emphasis will be placed on the contingency view of management with respect to the process of organizing human resources to set and accomplish organizational goals.

78-614. Marketing

An introduction of marketing management concepts and techniques that can be applied to private sector business as well as to not-for-profit organizations' marketing and communication activities. Emphasis will be placed on the marketing mix elements of product, price, place, and promotion.

78-631. International Business

A survey course providing a discussion of the international business environment and the decisions made by managers in international firms. Historical development of international business and the current global focus of international firms will be considered. The international global environment, including theories of trade and foreign direct investment, balance of payments and international institutions, and models for evaluating the environment in order to select the best international strategy or mode of entry for a particular location will be examined. Finally, the functional decisions made in international firms – financial, marketing, operational, human resources – and issues associated with international structure and control will be briefly examined.

78-632. Quantitative Studies

A focus on the important aspects of probability and statistics as they relate to the effective presentation of data and to decision making under uncertainty, and on the use of mathematical modelling as it relates to problem solving within an organization. A solid background in the quantitative techniques used by successful business organizations will be provided.

78-633. Introduction to Business Logistics Management

A discussion of major issues relating to distribution activities at a micro and macro level. The development of channel systems and the behavioural and legal aspects of channel relationships will be reviewed. Distribution systems will also be discussed and will include such topics as management transportation, inventory management, warehousing, materials handling, and customer order processing.

78-634. Leadership and Organizational Change

An exploration of an analytical framework to understand organizational transformation through leadership and vision building, strategic human resources planning, restructuring and redesigning, and organization environment interactions. Students will focus on the practical aspects of diagnosing the need for change and supporting, facilitating, or leading the change process.

78-635. Purchasing and Procurement

A discussion of effective purchasing techniques and strategies to lower total costs and increase quality within the organization. The course will focus on developing, implementing, and using purchasing systems and policies that support the acquisition of materials. Quality assurance, sourcing of supplies, and inventory management will be included.

78-636. International Financial Reporting

An exploration of the international environment of financial reporting. Particular emphasis is placed on International Accounting and Financial Reporting Standards. The preparation and presentation of financial statements, including such matters as accounting for tax, foreign currency transactions, and interim financial reporting will be reviewed.

78-637. International Financial Management

A study of the problems encountered by an international financial manager. Topics to be discussed include: international markets, spot and forward currency fluctuations, positioning corporate funds, investment decisions, hedging, and exposure management.

78-638. Human Resources Management

A study of the role of human resources activities in facilitating the achievement of organizational effectiveness. Exposure to both management and labour perspectives with regards to human resources issues will be provided by this course. Particular attention will be placed on the roles of labour relations and trade unionism as they pertain to human resources activities. Students will gain an understanding of the principles of human resources management and develop the skills required to solve people problems in the workplace.

78-651. Business Strategy

This is the capstone course of the Master of Management program. It integrates the knowledge gained in prior courses and focuses this knowledge on the functions of top management in an organization. Discussion of concepts and current practice are combined with case studies of strategic leadership and strategy formulation and implementation in a domestic and international environment.

78-652. Marketing Strategy and Planning

An analysis of the formation of marketing strategies and marketing plans. Topics to be covered will include business definitions, developing marketing objectives, selecting market targets, developing all aspects of the marketing mix, and evaluating marketing performance. Marketing decision models, portfolio techniques, generic strategies, PIMS, and related topics will also be covered.

78-653. Manufacturing Strategy

An analysis of the use of manufacturing and operations as weapons in the firm's competitive arsenal. Strategic questions

related to the choice of proper process technology, the determination of plant size and location, the extent of vertical integration, and the continuous pursuit of quality and productivity will be addressed.

78-654. Manufacturing Globalization (*Manufacturing Management stream capstone*)

The impact of international trade and of global technology, production, marketing, and social changes on the past development and future prospects of the manufacturing sector will be examined in this special seminar course.

78-655. Domestic Transportation and International Shipping

A study of the regulatory, economic, and management aspects of transportation. The needs and interests of the carriers, governments, and the shipping industry will also be studied. An evaluation of carrier alternatives for both passengers and the cargo in terms of their relative advantages and disadvantages will be discussed.

78-656. Quantitative Analysis for Logistics and Supply Chain Management

An introduction to the use of quantitative approaches in decision-making. Linear programming (model formulation and applications, computer solution, sensitivity analysis, and interpretation), transportation models, project management, PERT/CPM, and inventory control will be among the topics discussed.

78-657. Supply Chain Management (*Logistics and Supply Chain Management stream capstone*)

A special seminar course designed as a capstone for the Logistics and Supply Chain Management stream. An integrative perspective of supply chain strategy, supply chain finance, supply chain information systems, product design, relationship building and ERP will be provided.

78-661. Consolidated Financial Statements

An in-depth review of such matters as definitions of subsidiaries, associates, and joint ventures; equity accounting; exclusions from consolidations; and the preparation, presentation, and analysis of consolidated balance sheets and income statements.

78-662. Accounting Systems Control and Auditing

An exploration, from an international perspective, of accounting systems control and auditing. The framework and regulation of controls and audits, planning and risk, internal controls, audit evidence, group audits and reporting will be covered.

78-663. Corporate Governance (*International Accounting and Finance stream capstone*)

An analysis of matters of corporate governance and managerial responsibility to the organization's stakeholders with special reference to the regulatory framework, business ethics, and the consequences of failures in governance.

78-665. International Management

Focus is placed on the problems and issues that confront managers in the area of international business. A major objective will be to develop a sensitivity that will enhance the student's ability to operate in the complex environment of multi-cultural business. Background materials, cases, and exercises will involve the students in the challenges facing the international manager.

78-666. Managing for High Performance

An examination of the preparation needed to manage the unexpected in a time of organizational turbulence and change. Primary focus will be placed on the organization's approaches required to develop their staff and their structures so they can meet challenges with flexibility rather than rigidity.

78-667. Current HR Trends (*Human Resources Management stream capstone*)

A reading and research seminar that examines major concepts and important current problems in international Human Resources Management. Issues such as executive and management compensation, implementation of international labour standards in developing societies, development of an effective workforce, and dealing with outsourcing of corporate activities will be covered.

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Master of Engineering Management

Learning Outcomes

Last Updated: October 19, 2015

(Sa151009-5.5.5)

<p>Program Learning Outcomes (Degree Level Expectations) <i>This is a sentence completion exercise. Please provide a minimum of 1 learning outcome for each of the boxes associated with a graduate attribute.</i></p> <p><u>At the end of this program, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A UWindsor graduate will have the ability to demonstrate:</u></p>	<p>OCGS-approved Graduate Degree Level Expectations</p>
<p>A. Appropriately incorporate business into the practice of engineering by applying relevant theory, frameworks and principles.</p>	<p>A. the acquisition, application and integration of knowledge</p>	<p>1. Depth and Breadth of Knowledge 2. Research and Scholarship 3. Level of Application of Knowledge 6. Awareness of Limits of Knowledge</p>
<p>B. Investigate and address problems that involve complex engineering topics from both business and operational perspectives.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>	<p>2. Research and Scholarship 3. Level of Application of Knowledge 6. Awareness of Limits of Knowledge</p>
<p>C. Develop appropriate solutions for complex engineering problems by assessing the feasibility, benefit, cost and risks of various solutions from business, legal, operational and practical perspectives.</p>	<p>C. critical thinking and problem-solving skills</p>	<p>1. Depth and Breadth of Knowledge 2. Research and Scholarship 3. Level of Application of Knowledge 4. Professional Capacity/autonomy 6. Awareness of Limits of Knowledge</p>
<p>D. Integrate financial and accounting literacy and numeracy skills to, analyze and solve engineering problems that combine business and operational aspects.</p>	<p>D. literacy and numeracy skills</p>	<p>2. Research and Scholarship 5. Level of Communication Skills</p>
<p>E. Identify the scope of roles from multiple disciplines within a technology ventures with compliance with societal expectations.</p>	<p>E. responsible behaviour to self, others and society</p>	<p>4. Professional Capacity/Autonomy 6. Awareness of Limits</p>
<p>F. Communicate engineering problems and solutions with clarity to audiences of multi-disciplinary backgrounds.</p> <p>Analyze information and produce reports that integrate the business and technical aspects of engineering projects.</p>	<p>F. interpersonal and communications skills</p>	<p>5. Level of Communication Skills</p>

Program Learning Outcomes (Degree Level Expectations) <i>This is a sentence completion exercise. Please provide a minimum of 1 learning outcome for each of the boxes associated with a graduate attribute.</i> <u>At the end of this program, the successful student will know and be able to:</u>	Characteristics of a University of Windsor Graduate <u>A UWindsor graduate will have the ability to demonstrate:</u>	OCGS-approved Graduate Degree Level Expectations
G. Work independently and as a member and/or leader of diverse teams that include sales, marketing, operations, administration, as well as engineering.	G. teamwork, and personal and group leadership skills	4. Professional Capacity/Autonomy 5. Level of Communication Skills
H. Identify effective, innovative and feasible solution alternatives for complex engineering problems that take into account various requirements and specifications.	H. creativity and aesthetic appreciation	2. Research and Scholarship 4. Professional Capacity/autonomy 6. Awareness of Limits of Knowledge
I. Engage in a dynamic environment and continuously upgrade engineering and management skills and expertise.	I. the ability and desire for continuous learning	4. Professional Capacity/autonomy

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LAW

THE MASTER OF LAWS DEGREE

Windsor Law's Master's program (LLM) will stress rigorous scholarship, centred on our institutional themes of Access to Justice and Transnational Law. A key feature of the Windsor LLM will be that our students, while enrolled, will make concrete contributions to legal scholarship. Moreover, students in our unique and innovative LLM with Certificate in University Teaching and Learning stream will be offered the chance to complete the University of Windsor's internationally recognized University Teaching Certificate program as part of their course of study, as well as the opportunity to engage in law teaching. In addition to students contemplating an academic career, the program will be suitable for legal practitioners interested in developing expertise in a specialized area of law. Wherever possible, students will be integrated into our Law Faculty's existing Centres, and interdisciplinary and multi-disciplinary collaborations will be promoted.

The experiential learning component of the program consists of the law teaching practicum that students in the *LLM with Certificate in University Teaching and Learning stream* will complete. The law teaching practicum will, in most cases, extend for a maximum of four weeks (or twelve hours) of teaching. The practicum may be completed in a variety of ways including as part of a team of professors/instructors teaching a course, as a series of guest lectures in a faculty member's course and, for students who show exceptional promise or who have exceptional background in teaching, the teaching of a one-semester course.

Admission Requirements

Students who are accepted to the program will be academically inclined, motivated, and committed to continuous learning. Outside of exceptional circumstances, students applying to the LL.M program will be required to have an undergraduate law degree. In rare cases, a student may be admitted without a law degree. For students without law degrees to gain entry, they must have outstanding grades or experience and superior ability to complete the LL.M program. Admission to the program will be based on four categories which evaluate the student's: a) aptitudes, b) academic achievements, c) research proposal and, d) additional requirements such as reference letters and language proficiency. Details of these four broad categories are as follows:

a) Aptitudes

Generally, successful students admitted to our LL.M program will demonstrate the following aptitudes in terms of their ability to apply themselves, their knowledge, and their reasoning and communication skills. Specifically, the student accepted into the program will have shown evidence of:

Application: exceptional academic motivation; capacity for sustained and intense work; developed ability to organize time and set own agenda for study; academic curiosity for investigation and learning.

Knowledge: a broad, deep, advanced, and integrated understanding of the main branches of law and / or a related discipline.

Reasoning ability: outstanding analytical abilities, including the ability to draw and maintain fine distinctions, the ability to separate the relevant from the irrelevant, and the ability to develop and sustain complex arguments; capacities for accurate observation and insightful criticism, including willingness and ability to engage with disciplines other than law and to bring their insights to bear on legal problems; originality and creativity of thought, open-mindedness, and capacity for lateral thinking; excellent powers of synthesis.

Communication: willingness and ability to express highly complex ideas clearly and effectively; ability to conduct a mature debate leaving room for the contributions of others; aspiration to professional standards of style and organization in legal and scholarly writing.

b) Academic Achievements

First and foremost, applicants will be able to demonstrate their exceptional abilities through their academic achievements. Generally, this will mean high academic standing – normally at least a 77% average in an undergraduate law program (although this alone will not necessarily guarantee admission), and evidence of interest in academic pursuits (for example, pursuing independent/supervised research studies, publications, editing of academic work, etc.). For applicants applying from the workforce, noteworthy achievements may also be taken into account for what they reveal about the applicant's ability to succeed academically within a Master's program in Law.

All applicants will also be required to submit their undergraduate transcripts.

c) Research Proposal

A significant element of each student's application package will be the statement of proposed research. The research proposal should provide evidence of the candidate's ability and potential to engage with the relevant scholarly literature, doctrinal and/or empirical material and to formulate pertinent research questions. An academic writing sample will also be required.

d) Additional Requirements

Applicants will be asked to submit at least two letters of reference that show support for their scholarly endeavour. Admission will be contingent upon availability of a suitable supervisor and suitable reference materials for the applicant to

pursue their research project.

Finally, all students must meet an English language proficiency standard of :
250 (600) IBT-100 minimum on the TOEFL or 7.0 IELTS

Degree Requirements

LLM - One-year stream

Total courses:

Research Methods (6 credits)
Graduate Seminar (1 credit)
Legal Theory (3 credits)
Thesis (12 credits)
0-2, 3-credit courses, depending on student's background

LLM with Certificate in University Teaching and Learning - Two-year stream

Total courses:

Research Methods (6 credits)
Graduate Seminar (1 credit)
Legal Theory (3 credits)
Thesis (12 credits)
0-2, 3-credit courses, depending on student's background
Learning-Centred Teaching in Higher Education (UTC course) (or equivalent) (3 credits)
Course Design for Constructive Alignment (or equivalent) (3 credits)

University Teaching Credit (UTC) 6-week half-course (or equivalent) (non-credit)
Law Teaching in the Diverse Classroom (1.5 credits)

Students in this stream must also complete the Law Teaching Practicum (non-credit)

Additional requirements:

Presentation of research at scholarly conferences or other academic venues outside of Windsor Law's graduate program.

In order to obtain wider academic feedback, students will be required to present their research as an academic talk. During the write-up phase of their thesis, students will be a) required to present their work in progress in an open faculty/graduate student seminar (outside of the graduate seminar) and b) encouraged to present their work at subject-relevant conferences which foster graduate student networking, such as the Canadian Law and Society Association annual conference.

Subject-relevant conferences should be academic in nature -- for example, a graduate students' conference, faculty seminars, or conferences/workshops set up by learned associations such as the Canadian Law and Society Association. Students may also organize their own talks. In this connection, the Graduate Studies Committee has begun to make connections with other universities and research institutes which may be interested in hosting presentations by our graduate students.

Standing Required for Continuation in the Experiential Learning Option of the Program

Students will need to pass the teaching practicum and otherwise meet the normal regulations for continuation in the program as set by the University's regulations.

LLM: COURSES

LAW: PROGRAMS

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MATHEMATICS AND STATISTICS

THE MASTER OF SCIENCE DEGREE IN MATHEMATICS AND STATISTICS

Degree Requirements for the M.Sc. Mathematics and Statistics (Mathematics)

The candidate shall successfully complete one of the following courses of study:

(a) seven graduate courses, of which at least four must be numbered with the prefix 62- and the other three must be numbered with the prefix 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor, and a major paper;

(b) six graduate courses, of which at least three must be numbered with the prefix 62-, one numbered with prefix 62- or 65- and the other two must be numbered with the prefix 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor, and a thesis. The originality of a Master's thesis may lie in the organization, presentation, and scholarly evaluation, rather than in the result.

The Department of Mathematics and Statistics requires that students maintain at least a 70% average at all times. Term courses in which a grade of at least 70% has been earned will be accepted for graduate credit. Term courses with a grade lower than 60% will not be accepted for graduate credit. At most two term courses with grades in the 60% - 69.9% range will be accepted for credit subject to the approval of the Faculty of Graduate Studies after a positive recommendation from the Graduate Studies Committee upon consultation with the supervisor. This recommendation will be given on a case by case basis.

All course selections require the approval of the student's Masters committee, the supervisor, or the departmental graduate committee.

Mathematics Master's students must attend either 24 seminars or 75 percent of all seminars available during fulltime registration, whichever is the smaller number. Seminars include the colloquium series, graduate major paper presentations and thesis presentations.

Master's Committee

If the Thesis option is taken for either the M.Sc. Mathematics and Statistics (Mathematics) or the M.Sc. Mathematics and Statistics (Statistics), a Masters committee must be appointed within the student's first term of study at the Master's II (or M2) (Candidate) level. The Master's committee must be approved by the Executive Committee of the Faculty of Graduate Studies and Research. The Master's committee shall include the student's supervisor as chairperson, one other member of the Department, and one faculty member from outside the Department.

MATHEMATICS AND STATISTICS: COURSES

MATHEMATICS AND STATISTICS: PROGRAMS

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MATHEMATICS AND STATISTICS

THE MASTER OF SCIENCE DEGREE IN MATHEMATICS AND STATISTICS

Degree Requirements for the M.Sc. Mathematics and Statistics (Statistics)

The candidate shall successfully complete one of the following courses of study:

(a) seven graduate courses, of which at least five must be numbered with the prefix 65- and the other two must be numbered with the prefix 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor, and a major paper;

(b) six graduate courses, of which at least four must be numbered with the prefix 65- and the other two must be numbered with the prefix 65- or 62- or be approved by the Graduate Studies Committee upon the recommendation of the supervisor, and a thesis. The originality of a Master's thesis may lie in the organization, presentation, and scholarly evaluation, rather than in the result.

Up to two courses prefixed 65- may be replaced by 62-510 and/or 62-511.

Statistics Master's students must attend either 24 seminars or 75 percent of all seminars available during full-time registration, whichever is the smaller number. Seminars include the colloquium series, graduate major paper presentations and thesis presentations.

The Department of Mathematics and Statistics requires that students maintain at least a 70% average at all times. Term courses in which a grade of at least 70% has been earned will be accepted for graduate credit. Term courses with a grade lower than 60% will not be accepted for graduate credit. At most two term courses with grades in the 60% - 69.9% range will be accepted for credit subject to the approval of the Faculty of Graduate Studies after a positive recommendation from the Graduate Studies Committee upon consultation with the supervisor. This recommendation will be given on a case by case basis.

Master's Committee

If the Thesis option is taken for either the M.Sc. Mathematics and Statistics (Mathematics) or the M.Sc. Mathematics and Statistics (Statistics), a Masters committee must be appointed within the student's first term of study at the II Master's (Candidate) level. The Master's committee must be approved by the Executive Committee of the Faculty of Graduate Studies and Research. The Master's committee shall include the student's supervisor as chairperson, one other member of the Department, and one faculty member from outside the Department.

MATHEMATICS AND STATISTICS: COURSES

MATHEMATICS AND STATISTICS: PROGRAMS

GRADUATE STUDIES FACULTY REGULATIONS

PhD in Social Work

Learning Outcomes

Last Updated: June 11, 2009

(Sa090611-5.2.17)

<p>Program Learning Outcomes</p> <p><u>At the end of this program, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>	<p>OCGS-approved Graduate Degree Level Expectations</p>
<ul style="list-style-type: none"> - demonstrate, through writing at an advanced level, knowledge about a substantive area relevant to social work policy or practice, including theoretical frameworks, scope, relevance, and severity. - identify issues of oppression, how they have been addressed, and the effectiveness of previous efforts. - explore the range of research paradigms, methods, and analysis strategies, and make decisions about the appropriateness of each given a particular scenario. - identify appropriate strategies for mobilizing/translating research results to influence positive change in community, program development, and policy. - articulate a range of pedagogical theories and apply select theories in the classroom. - develop a course outline, design methods of evaluation and assessment aligned with learning outcomes, and select course readings while adhering to the rules of plagiarism, legal photocopying for course purposes, etc. 	<p>A. the acquisition, application and integration of knowledge</p>	<ul style="list-style-type: none"> 1. Depth and Breadth of Knowledge 2. Research and Scholarship 3. Level of Application of Knowledge 6. Awareness of Limits of Knowledge
<ul style="list-style-type: none"> - conduct a thorough literature review in a substantive area of interest. - critique existing knowledge and formulate research questions. (C) - develop a research proposal that uses mixed, qualitative, and quantitative methods. - competently conduct independent research using at least one research paradigm (mixed, qualitative, or quantitative). (A) - interpret quantitative and qualitative research findings. - articulate the implications of the findings for social work research, theory development, and practice. (A) - disseminate knowledge gained from empirical research and from conceptual knowledge development through the completion of a doctoral thesis, published works, and conference presentations. (A) 	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>	<ul style="list-style-type: none"> 2. Research and Scholarship 3. Level of Application of Knowledge 6. Awareness of Limits of Knowledge
<ul style="list-style-type: none"> - critically analyze the literature in a substantive area of interest. - use problem-solving strategies to take a position on a social need and on strategies for addressing that need. - engage students in critical thinking exercises and assignments. 	<p>C. critical thinking and problem-solving skills</p>	<ul style="list-style-type: none"> 1. Depth and Breadth of Knowledge 2. Research and Scholarship 3. Level of Application of Knowledge 4. Professional Capacity/autonomy

Program Learning Outcomes <u>At the end of this program, the successful student will know and be able to:</u>	Characteristics of a University of Windsor Graduate <u>A U of Windsor graduate will have the ability to demonstrate:</u>	OCGS-approved Graduate Degree Level Expectations
		6. Awareness of Limits of Knowledge
<ul style="list-style-type: none"> - conduct a thorough literature review as required for doctoral course assignments, peer reviewed publications and dissertation. - competently use the APA format for writing doctoral level manuscripts and in preparing citations. - conduct advanced statistical analyses for a variety of datasets, including descriptive and inferential statistics. 	D. literacy and numeracy skills	2. Research and Scholarship 5. Level of Communication Skills
<ul style="list-style-type: none"> - adhere to the Social Work Code of Ethics, tri-agency policies, and other ethical standards related to social work research and practice (e.g., issues of conflict of interest, appropriate authorship, intellectual property attributions). - demonstrate a connection between theory and practice throughout all aspects of social work. - conduct research with a view to developing community-university partnerships. (G) - use scientific rigour and integrity in obtaining, recording, analyzing, interpreting, and reporting data. - regularly assess personal teaching philosophy, methods, and styles in order to expand pedagogical repertoire and shape diverse learning situations. 	E. responsible behaviour to self, others and society	4. Professional Capacity/Autonomy 6. Awareness of Limits of Knowledge
<ul style="list-style-type: none"> - use the communication skills necessary to interact positively with research participants, clients, and professionals. - using a range of media to communicate effectively, (orally, in writing, and in visual forms) to a variety of audiences both in formal (e.g., debates, seminar/conference presentations, publishable manuscripts) and in informal (e.g., interaction with other students, faculty) contexts. - listen to and receive feedback from peers, supervisors, and other researchers. - write research proposals, grant proposals, and complete Research Ethics Board applications. - translate research results into knowledge understandable to non-specialists. - through the use of a variety of teaching techniques, communicate effectively to students course expectations, course content, class exercises and assignments. - identify and articulate learning outcomes for courses taught in higher education. - influence, motivate, mentor, guide, and enable others to contribute to the effectiveness and success of an organization. (G) 	F. interpersonal and communications skills	5. Level of Communication Skills

Program Learning Outcomes <u>At the end of this program, the successful student will know and be able to:</u>	Characteristics of a University of Windsor Graduate <u>A U of Windsor graduate will have the ability to demonstrate:</u>	OCGS-approved Graduate Degree Level Expectations
<ul style="list-style-type: none"> - using leadership skills, articulate a vision, identify problems and solutions, empower and enable others, and facilitate teamwork. (F) - work both independently and in collaboration with others. - apply effective project management through the setting of research goals and intermediate milestones and through the prioritization of activities. - provide constructive feedback and respond perceptively to others. - engage in effective team-building and group leadership that is grounded in an understanding of the roles and stages involved in group processes. - take constructive roles in decision-making processes related to community initiatives, program development, policy, and/or university. - where appropriate, consult with the appropriate stakeholders in order to build consensus before making a decision. 	G. teamwork, and personal and group leadership skills	4. Professional Capacity/Autonomy 5. Level of Communication Skills
<ul style="list-style-type: none"> - regularly consult scholarly literature inside and outside the direct field of research to consider alternative ways of conceptualizing ideas. - encourage feedback from peers, faculty, and community players to broaden the understanding of an issue and to devise creative solutions in problem-solving and dissemination processes. - develop new models to integrate research findings into current knowledge. - develop and adapt instructional activities to address different learning styles. 	H. creativity and aesthetic appreciation	2. Research and Scholarship 4. Professional Capacity/autonomy 6. Awareness of Limits of Knowledge
<ul style="list-style-type: none"> - articulate one's self-development and how it relates to one's professional advancement in curricula vitae, applications, interviews, and research and other social work-related presentations. - identify areas for future self-development. - enhance professional competence through continuing social work education activities. - engage in learning opportunities through collaboration and discussions that occur in the research and dissemination process. - seek available opportunities beyond the course selections that are required for graduation, such as self-study, attending and organizing guest lectures and conferences, applying for fellowships and clerkships, and scholarly writing. 	I. the ability and desire for continuous learning	4. Professional Capacity/autonomy

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Mission Statement

The mission of the University of Windsor Master of Science degree program in Nursing is to prepare graduates for advanced nursing practice. Graduates will address societal health needs relating to health promotion and illness prevention, or human responses and adaptations to alterations in health. Through the integration of theory, research, and practice students will advance their scientific base for practice. In addition the program supports development of leadership and advocacy skills for contributions to health care, education and research. Through faculty guidance and self-directed learning activities, students from diverse backgrounds will develop advanced professional knowledge through critical thinking, decision making, and scholarly inquiry in a multicultural society. This program is especially designed to meet the needs of employed baccalaureate prepared nurses.

63-600. Seminar

Learning Outcomes

Last Updated: December 15, 2017

(PDC171215-5.7)

Course Learning Outcomes	Characteristics of a University of Windsor Graduate
<u>At the end of this course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
A. Synthesize knowledge of methods, research literature, theory, feasibility and ethics to develop a clear vision of the research process. (Applicable to B and C).	A. the acquisition, application and integration of knowledge
B. Demonstrate ethical behavior pertaining to the review, appraisal, assembly and conduct of meaningful research. (Applicable to D, E)	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Thoughtfully and critically evaluate a scientific body of knowledge to contribute to advance scholarly discourse in the nursing profession. (Applicable to F).	C. critical thinking and problem-solving skills
D.	D. literacy and numeracy skills
E. Articulate and enact the roles and responsibilities of the nursing scholar. (eg. researcher, leader, educator, mentor, advocate). (Applicable to I).	E. responsible behaviour to self, others and society
F.	F. interpersonal and communications skills
G. Demonstrate leadership among peers in analyzing and achieving the competencies of emerging nurse scholars (eg. knowledge translation, critical analysis of research literature, application of methodology). (Applicable to I).	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I. Demonstrate leadership among peers in analyzing and achieving the competencies of emerging nurse scholars (eg. knowledge translation, critical analysis of research literature, application of methodology). (Applicable to G).	I. the ability and desire for continuous learning

63-610. Philosophy of Science in Nursing

Learning Outcomes

Last Updated: December 15, 2017

(PDC171215-5.7)

Course Learning Outcomes	Characteristics of a University of Windsor Graduate
<u>At the end of this course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
A. Critically evaluate the implications of the evolution of historical and contemporary foundations of philosophical thought for advancing nursing knowledge development. (Applicable to C, D).	A. the acquisition, application and integration of knowledge
B. Explain, evaluate, and justify the creative application of philosophical tenets and assumptions to research questions and methods that inform and advance nursing knowledge development. (Applicable to B, C, D, H).	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C.	C. critical thinking and problem-solving skills
D. Critically evaluate the implications of the evolution of historical and contemporary foundations of philosophical thought for advancing nursing knowledge development. (Applicable to C, D).	D. literacy and numeracy skills
E.	E. responsible behaviour to self, others and society
F. Debate, articulate and defend the relevance and application of selected philosophical paradigms for advancing nursing knowledge and the sound conduct of ethical research. (Applicable to C, E, D).	F. interpersonal and communications skills
G.	G. teamwork, and personal and group leadership skills
H. Explain, evaluate, and justify the creative application of philosophical tenets and assumptions to research questions and methods that inform and advance nursing knowledge development. (Applicable to B, C, D, H).	H. creativity and aesthetic appreciation
I.	I. the ability and desire for continuous learning

63-620. Advanced Perspectives in Quantitative Research Methods and Analyses

Learning Outcomes

Last Updated: December 15, 2017

(PDC171215-5.7)

<p>Course Learning Outcomes</p> <p><u>At the end of this course, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A.</p> <p>Utilize knowledge of the assumptions and application of various multivariate statistical techniques to inform decisions about the selection of the best analyses to address specific research questions. (Applicable to C and D)</p> <p>Synthesize and integrate knowledge of research design and statistical methods to develop scientifically rigorous nursing research. (Applicable to B, C, D, H)</p> <p>Assess selected statistical databases, perform the appropriate analyses, and draw sound conclusions about the results of these analyses. (Applicable to C and D).</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B.</p> <p>Critically appraise the designs and findings of nursing and clinical research reports with regard to factors affecting their internal and external validity.</p> <p>Distinguish among the various sources of bias, confounding, effect mediation, and effect moderation in nursing and clinical research and explain the impact that bias and confounding may have on research findings. (Applicable to C).</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C.</p> <p>Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research. (Applicable to E and I)</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D.</p> <p>Synthesize and integrate knowledge of research design and statistical methods to develop scientifically rigorous nursing research. (Applicable to B, C, D, H)</p>	<p>D. literacy and numeracy skills</p>
<p>E.</p> <p>Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research. (Applicable to C, E and I)</p>	<p>E. responsible behaviour to self, others and society</p>
<p>F.</p>	<p>F. interpersonal and communications skills</p>

Course Learning Outcomes	Characteristics of a University of Windsor Graduate
<u>At the end of this course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
G.	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I. Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research (Applicable to C, E and I) .	I. the ability and desire for continuous learning

63-630. Advanced Perspectives in Qualitative Research

Learning Outcomes

Last Updated: December 15, 2017

(PDC171215-5.7)

<p>Course Learning Outcomes</p>	<p>Characteristics of a University of Windsor Graduate</p>
<p><u>At the end of this course, the successful student will know and be able to:</u></p>	<p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Evaluate assumptions concerning knowledge and reality that underpin worldviews/paradigms informing qualitative health research. (Applicable to C)</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Formulate a qualitative research question and justify its consistency with a selected qualitative research methodology. Apply criteria of rigour to the design and evaluation of qualitative health research.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Evaluate selected qualitative health research methodologies (Applicable to A and B).</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Defend the usefulness/relevance of qualitative health research for nursing practice and healthcare policy. (Also applicable to E and F).</p>	<p>D. literacy and numeracy skills</p>
<p>E. Critically reflect on one’s values/assumptions/biases/pre-understandings that hold potential to influence researcher role and positioning (Applicable to C). Propose and defend solutions to ethical considerations related to qualitative health research design and conduct. (Applicable to F).</p>	<p>E. responsible behaviour to self, others and society</p>
<p>F. Propose and defend solutions to ethical considerations related to qualitative health research design and conduct. (Applicable to E, F).</p>	<p>F. interpersonal and communications skills</p>
<p>G.</p>	<p>G. teamwork, and personal and group leadership skills</p>
<p>H.</p>	<p>H. creativity and aesthetic appreciation</p>
<p>I.</p>	<p>I. the ability and desire for continuous learning</p>

63-741. Comprehensive Exam

Learning Outcomes

Last Updated: December 15, 2017

(PDC171215-5.7)

Course Learning Outcomes	Characteristics of a University of Windsor Graduate
<u>At the end of this course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
A. Conduct a rigorous appraisal of existing research and scholarship and critically appraise the evidence. (Applicable to B and C)	A. the acquisition, application and integration of knowledge
B. Demonstrate advanced knowledge and professional expertise in a specialized area of research.	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Articulate and defend a particular position or critical perspective related to a specialized area of research focus. (Applicable to D)	C. critical thinking and problem-solving skills
D.	D. literacy and numeracy skills
E. Demonstrate accountability to society, the discipline and profession of nursing by focusing on an issue of importance in nursing and the healthcare system.	E. responsible behaviour to self, others and society
F. Demonstrate independent and creative thinking in communicating the current state of knowledge in a specialized area of research. (Applicable to H)	F. interpersonal and communications skills
G. Evaluate research outputs within nursing and allied health health professions in an interdisciplinary and multidisciplinary context (Applicable to H, I)	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I.	I. the ability and desire for continuous learning

63-593. Advanced Professional Nursing Practicum**Learning Outcomes**

Last Updated: March 9, 2018

(PDC180212-5.7)

Course Learning Outcomes <i>This is a sentence completion exercise.</i>	Characteristics of a University of Windsor Graduate
<u>At the end of the course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
A.	A. the acquisition, application and integration of knowledge
B. Systematically and judiciously access, identify, select, critically examine, and synthesize theory and empirical evidence from diverse sources to identify gaps in complex system related issues at the unit and/or organizational level.	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Apply knowledge, skills, critical reasoning, and sound judgement to the proposal, planning, design, implementation, and evaluation of innovative solutions to identified gaps in complex system related issues at the unit and/or organizational level. Critically analyze facilitators and barriers to knowledge uptake and apply evidence-based strategies to the creative design and implementation of innovative knowledge translation approaches.	C. critical thinking and problem-solving skills
D. Integrate information technologies, resources, and ethical and advanced communication principles to effectively communicate to diverse audiences (academic, professional, lay, media), orally and in writing. (also applies to F & H)	D. literacy and numeracy skills
E. Maintain a professional and ethical environment of accountability in difficult or conflictual situations. (also applies to F & G)	E. responsible behaviour to self, others and society
F. Apply knowledge, skills, critical reasoning, and sound judgement about change management through leadership and participation in intra and interprofessional teams at the unit and/or organizational level. (also applies to G)	F. interpersonal and communications skills
G. (see F)	G. teamwork, and personal and group leadership skills
H. (see D)	H. creativity and aesthetic appreciation
I.	I. the ability and desire for continuous learning

63-572. Women and Health

Learning Outcomes

Last Updated: April 13, 2018

Sa180413-5.5.4c

Course Learning Outcomes <i>This is a sentence completion exercise.</i>	Characteristics of a University of Windsor Graduate
<u>At the end of the course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
A. Analyze and critique the historical and social context of women’s health, with a view to strengthening women’s enablement and voice.	A. the acquisition, application and integration of knowledge
B. Locate and review relevant literature comparing the health care milieu of Canadian women compared with other female populations	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Identify, debate and engage in informed and critical discussions about women’s lifestyle issues (e.g. determinants of health) that are local, regional, national and international	C. critical thinking and problem-solving skills
D.	D. literacy and numeracy skills
E Advocate sensitively, competently and ethically for the health needs of women in different social, cultural and environmental contexts within the local, provincial and national milieu.	E. responsible behaviour to self, others and society
F. Articulate how the social determinants of health impact on the well-being of women in both verbal and written formats in a concise, comprehensive and scholarly manner.	F. interpersonal and communications skills
G.	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I. Critically reflect upon and evaluate personal knowledge and practice skills in women’s health	I. the ability and desire for continuous learning

63-581. Thoretical Foundations of Nursing

Learning Outcomes

Last Updated: April 13, 2018

Sa180413-5.5.4c

<p>Course Learning Outcomes <i>This is a sentence completion exercise.</i></p> <p><u>At the end of the course, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Examine the relevance of theories to advanced practice nursing and health care. Appraise evolving perspectives regarding the philosophical underpinnings of the Advanced Practice Nurse (APN).</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Analyze the relationship between theory, research and practice, and their impact on evidence informed decision-making.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Evaluate and examine theoretical concepts for logical consistency, research validation and application to nursing research and practice. (Also applies to I).</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Demonstrate scholarly analysis of relevant theories and their application to nursing practice and nursing care. (Also applies to E, F, H & I)</p>	<p>D. literacy and numeracy skills</p>
<p>E. (Also see D)</p>	<p>E. responsible behaviour to self, others and society</p>
<p>F. (Also see D).</p>	<p>F. interpersonal and communications skills</p>
<p>G.</p>	<p>G. teamwork, and personal and group leadership skills</p>
<p>H. (Also see D).</p>	<p>H. creativity and aesthetic appreciation</p>
<p>I. (Also see C & D).</p>	<p>I. the ability and desire for continuous learning</p>

63-582. Advanced Statistics

Learning Outcomes

Last Updated: April 13, 2018

Sa180413-5.5.4c

<p>Course Learning Outcomes</p>	<p>Characteristics of a University of Windsor Graduate</p>
<p><u>At the end of the course, the successful student will know and be able to:</u></p>	<p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Interpret statistical concepts and their applications to health care research. (Also applies to B & C)</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Critically analyze and communicate selected quantitative research reports and make judgement on the accuracy of the statistical techniques employed on those reports. (Also applies to A, C, F & G).</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Decide what statistical technique will provide the best answer to a given research question.</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Differentiate between parametric and nonparametric tests and articulate their underlying assumptions. Use the SPSS to conduct statistical analyses. (Also applies to B & C).</p>	<p>D. literacy and numeracy skills</p>
<p>E. Utilize knowledge of statistical inferences to make proper conclusions about research generalizability to target populations. (Also applies to G & H).</p>	<p>E. responsible behaviour to self, others and society</p>
<p>F. (See B).</p>	<p>F. interpersonal and communications skills</p>
<p>G. (See B & E).</p>	<p>G. teamwork, and personal and group leadership skills</p>
<p>H.</p>	<p>H. creativity and aesthetic appreciation</p>
<p>I. Analyze and extrapolate statistical results to evaluate research findings and their impact on the health of target populations.</p>	<p>I. the ability and desire for continuous learning</p>

46-688 Introductory Practicum in Clinical Neuropsychology

Learning Outcomes

Last Updated: March 9, 2018

(PDC180212-5.8)

<p>Course Learning Outcomes <i>This is a sentence completion exercise.</i></p> <p><u>At the end of this course, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Demonstrate mastery of test administration of a full neuropsychological battery for a given age range (i.e. child/adolescent vs. adult/older adult).</p> <p>Administer standardized neuropsychological tests in the clinical setting to a range of clients.</p> <p>Summarize the results of the tests they administer in writing.</p> <p>Demonstrate knowledge of legal, regulatory, and policy issues that apply to practice within a clinical neuropsychology setting in test selection and test administration.</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Investigate the relevant underlying constructs in the scientific literature (e.g., different strategies for conducting a mental status exam, etc.) from their required observations and present the results of their research at weekly didactic sessions.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Identify threats to validity of test results and plan alternative assessment procedures when test invalidity is identified.</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Prepare timely, concise, and accurate client records per the policies within the clinical neuropsychology service</p>	<p>D. literacy and numeracy skills</p>
<p>E. Interact professionally with clients when providing clinical neuropsychology services.</p> <p>Demonstrate appropriate levels of self-awareness and willingness to work on interpersonal and technical skills essential to the role of clinical neuropsychologist in a clinical setting.</p> <p>Demonstrate sound ethical reasoning in all aspects of clinical neuropsychological practice.</p> <p>Demonstrate sensitivity to issues related to individual and cultural diversity in all aspects of professional practice.</p>	<p>E. responsible behaviour to self, others and society</p>

<p>Provide clinical services consistent with professional standards in the regulated health profession of Clinical Psychology.</p> <p>Seek and effectively incorporate supervisory feedback.</p>	
<p>F. Demonstrate interpersonal competence and skills appropriate to the needs of the clinical neuropsychology service.</p> <p>Follow instructions provided by supervisors in the clinical neuropsychology service.</p>	<p>F. interpersonal and communications skills</p>
<p>G. Work effectively with supervisors, allied professionals, and staff to provide clinical neuropsychology services.</p>	<p>G. teamwork, and personal and group leadership skills</p>
<p>H.</p>	<p>H. creativity and aesthetic appreciation</p>
<p>I. Reflect and engage in ongoing self-assessment to improve professional practice and competencies.</p>	<p>I. the ability and desire for continuous learning</p>

46-689 Intensive Practicum in Neuropsychology

Learning Outcomes

Last Updated: March 9, 2018

(PDC180212-5.8)

Course Learning Outcomes <i>This is a sentence completion exercise.</i> <u>At the end of this course, the successful student will know and be able to:</u>	Characteristics of a University of Windsor Graduate <u>A U of Windsor graduate will have the ability to demonstrate:</u>
<p>A. Demonstrate mastery of test administration of the full neuropsychological battery across the lifespan (i.e. from child/adolescent through adult/older adult).</p> <p>Administer and interpret standardized neuropsychological tests in the clinical setting to a range of clients.</p> <p>Write clinical neuropsychological reports and provide feedback to clients.</p> <p>Demonstrate knowledge of legal, regulatory, and policy issues that apply to practice within a clinical neuropsychology setting.</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Investigate the relevant underlying constructs in the scientific literature following from their neuropsychological assessment activities (e.g., “gold standard” assessment practices for a particular disorder, etc.) and present the results of their research at weekly didactic sessions.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Conduct assessments, manage cases, conceptualize cases, and propose interventions, based on the requirements of the clinical neuropsychology service and under the direction of a clinical supervisor(s).</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Prepare timely, concise, and accurate client records per the policies within the clinical neuropsychology service.</p>	<p>D. literacy and numeracy skills</p>
<p>E. Interact professionally with clients when providing clinical neuropsychology services.</p> <p>Demonstrate appropriate levels of self-awareness and willingness to work on interpersonal and technical skills essential to the role of clinical neuropsychologist in a clinical setting.</p> <p>Demonstrate sound ethical reasoning in all aspects of clinical neuropsychological practice.</p>	<p>E. responsible behaviour to self, others and society</p>

Course Learning Outcomes <i>This is a sentence completion exercise.</i> <u>At the end of this course, the successful student will know and be able to:</u>	Characteristics of a University of Windsor Graduate <u>A U of Windsor graduate will have the ability to demonstrate:</u>
<p>Demonstrate sensitivity to issues related to individual and cultural diversity in all aspects of professional practice.</p> <p>Provide clinical services consistent with professional standards in the regulated health profession of Clinical Psychology.</p> <p>Seek and effectively incorporate supervisory feedback.</p>	
<p>F. Demonstrate interpersonal competence and skills appropriate to the needs of the clinical neuropsychology service.</p> <p>Follow instructions provided by supervisors in the clinical neuropsychology service.</p>	<p>F. interpersonal and communications skills</p>
<p>G. Work effectively with supervisors, allied professionals, and staff to provide clinical neuropsychology services.</p> <p>Contribute to the supervision and training of junior students in a training program.</p>	<p>G. teamwork, and personal and group leadership skills</p>
<p>H.</p>	<p>H. creativity and aesthetic appreciation</p>
<p>I. Reflect and engage in ongoing self-assessment to improve professional practice and competencies.</p>	<p>I. the ability and desire for continuous learning</p>

46-530 Neuropathology

Course Learning Outcomes

Last Updated: October 6, 2017

(Sa171006-5.5.2)

Learning Outcomes	Characteristics of a University of Windsor Graduate
This is a sentence completion exercise. At the end of the course, the successful student will know and be able to:	A U Windsor graduate will have the ability to demonstrate:
A. Describe the risk factors, clinical presentations, treatment options, and empirically-supported prognoses of each of the presented disorders.	A. the acquisition, application and integration of knowledge
B. Integrate across empirical sources and case studies to present accurate information about disorders, particularly when leading a discussion and/or making a presentation.	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Critically survey research findings in neuropathology.	C. critical thinking and problem-solving skills
D.	D. literacy and numeracy skillsPaper?
E.	E. responsible behaviour to self, others and society
F.	F. interpersonal and communications skills
G.	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I. Demonstrate the intention to conduct critical surveys of research findings in neuropathology throughout the career.	I. the ability and desire for continuous learning

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Programs	FACULTY OF SCIENCE
Programs (Listed Alphabetically)	THE MASTER OF SCIENCE DEGREE IN ENVIRONMENTAL SCIENCE (Great Lakes Institute for Environmental Research (GLIER))
Programs (Listed by Department)	In addition to the general requirements, the following requirements must be met by all students proceeding to the M.Sc. degree.
Programs (Listed by Faculty)	Admission Requirements
Graduate Diploma Programs	Initial Application Procedure: The initial application procedure for students who wish to enrol in the MSc. Program through GLIER includes:
Courses	1) Completion of the "Application for Admission to the Faculty of Graduate Studies" form;
Alphabetical by Department	2) one official transcript of all undergraduate studies from all colleges and universities attended;
Admission Information	3) two confidential letters of reference;
Application Information	4) Graduate Record Examination, if required; and TOEFL results, as required;
Awards and Financial Aid	5) letter of intent that clearly outlines his/her interest in the program, proposed focus of study and the prospective supervisor;
Registration	Prospective students will be encouraged to contact a potential supervisor before applying for admission to the GLIER graduate program. If a suitable supervisor cannot be identified, the student will be dissuaded from applying for admission.
Academic Regulations	For admission to the M.Sc. program, applicants must hold an appropriate Honours Bachelor's degree (or equivalent) from a recognized university. Students must maintain no less than a 77% average in their final two years of undergraduate, full-time study to be eligible for admission into the GLIER M.Sc. program.
Faculty Regulations	Program Requirements
Additional Degrees	(a) compliance with regulations outlined in University of Windsor Graduate Calendar;
Exam and Grading Procedures	(b) successful completion of the GLIER Multidisciplinary Graduate Seminar course (this course is taken over the first two semesters and is equivalent to two credits). The course will be graded in accordance with university standards. Following successful completion of this course, all M.Sc. students will be required to continue registering in this course as an audit;
Authorship and Plagiarism	(c) successful completion of the GLIER Environmental Research Proposal course (M.Sc. level). The course will be graded according to university standards.
Graduation	(d) any additional course work mandated by the student's Examining Committee to eliminate perceived weaknesses in the student's background preparation or to increase awareness of other disciplines;
Faculty of Graduate Studies	(e) submission for publication of an original research article derived from the thesis to a refereed journal. Exemption from this requirement is granted only with permission from the GLIER Graduate Committee;
Graduate Faculty Designation	(f) submission of a Research Progress Report to the Master's Committee every six months and a meeting with the committee to review progress and problems encountered during the preceding six months and to plan future work;
Calendars	(g) completion of an original research project reported in a thesis;
Undergraduate Calendar	(h) defense of the thesis in a public lecture and before the Master's Committee.
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FACULTY OF SCIENCE

THE DOCTOR OF PHILOSOPHY DEGREE IN ENVIRONMENTAL SCIENCE

(Great Lakes Institute for Environmental Research (GLIER))

In addition to the general requirements, the following requirements must be met by all students proceeding to the Ph.D. degree.

Admission Requirements

Initial Application Procedure: The initial application procedure for students who wish to enrol in the Ph.D. program through GLIER includes:

- 1) Completion of the "Application for Admission to the Faculty of Graduate Studies " form;
- 2) one official transcript of all undergraduate and graduate studies from all colleges and universities attended;
- 3) three confidential letters of reference;
- 4) Graduate Record Examination, if required; and TOEFL results, as required;
- 5) letter of intent by the student that clearly outlines his/her interest in the program, proposed focus of study and the prospective supervisor.

Prospective students will be encouraged to contact a potential supervisor before applying for admission to the GLIER graduate programs. If a suitable supervisor cannot be identified, the student will be dissuaded from applying for admission.

Two streams of Ph.D. applicants are envisaged. Applicants holding an M.Sc. degree from the University of Windsor or from another recognized university may be admitted directly to the GLIER Ph.D. program. Alternatively, students enrolled in the M.Sc. program who are making exceptional progress may transfer to the PhD program after one year on the recommendation of their Master's Committee and with the approval of the GLIER Graduate Committee and the Faculty of Graduate Studies. Students eligible for transfer will have made outstanding progress in both course work and research, and have a first-author research article submitted to a refereed journal at the time of transfer.

Program Requirements

- (1) Students entering the program with an M.Sc. degree must fulfill all requirements listed below:
 - (a) compliance with regulations outlined in University of Windsor Graduate Calendar;
 - (b) successful completion during the first year of enrolment in the program of an oral comprehensive exam, administered by the student's Doctoral Committee. Students will be required to possess comprehensive knowledge of their field of study as well as any ancillary fields relevant to the dissertation topic (as determined in advance by the Doctoral Committee). Students will be evaluated on a satisfactory/ unsatisfactory basis;
 - (c) successful completion of the GLIER Multiple Stressors and Environmental Modelling course (one credit). The course will be graded in accordance with university standards;
 - (d) successful completion of the GLIER Multidisciplinary Graduate Seminar course (this course is taken over two semesters and is equivalent to two credits). The course will be graded in accordance with university standards. All Ph.D. students who have successfully completed this course will be required to audit the course each year following their first year of residency;
 - (e) any additional course work mandated by the student's Doctoral Committee to eliminate perceived weaknesses in the student's background preparation or to increase awareness of other disciplines;
 - (f) submission of a Research Progress Report to the Doctoral Committee every six months and meetings with the committee every six months to discuss progress and research plans;
 - (g) completion of an original research project reported in a dissertation;
 - (h) defence of the dissertation in a public lecture and before the Doctoral Committee; and
 - (i) publication of at least one original research article and submission of at least one additional article derived from the dissertation in a refereed journal. Exemption from this requirement is granted only with permission of the Graduate Program Committee.

(2) Students transferring to the Ph.D. program must have received no grade less than 80% or satisfactory for all course work taken in the GLIER M.Sc. program. In addition, transfer students must have at least one first-author research article submitted to a refereed journal at the time of transfer. Transfer can be granted only by the Faculty of Graduate Studies acting on a recommendation from the student's Doctoral Committee and the Graduate Program Committee. Students

approved for transfer into the Ph.D. program must comply with regulations (a) through (j) above.

In addition to courses offered in the GLIER programs, students will be advised to enroll in additional courses in other AAUs, as needed. It is expected that these courses will offer intensive treatments of particular topics to assist students in resolving perceived weaknesses. These courses are offered in a variety of AAUs including Earth Sciences, Biological Sciences, and Chemistry and Biochemistry and involve various combinations of theory and lab work. All graduate students must complete the GLIER Multidisciplinary Graduate Seminar course and must complete the GLIER Environmental Research Proposal course. The Multiple Stressors and Environmental Modelling Course is required for all Ph.D. students. Other courses will supplement core GLIER courses, be offered on a rotating basis, and be mandated by Doctoral Committees, depending on students' perceived deficiencies in background preparation.

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GRADUATE CALENDAR

The Graduate Calendar is a comprehensive guide to all graduate programs and courses available at the University of Windsor. It outlines academic regulations and standards, program degree requirements, and general University policies.

The online calendars are the official calendars. The University of Windsor publishes graduate web calendars on a semester basis (Fall, Winter, and Spring).

Note: Students may follow the academic rules and program regulations set out in the calendar of the term in which they were first admitted to the program or any subsequent calendar.

FEDERATED AND AFFILIATED INSTITUTIONS:

Assumption University

Canterbury College

Iona College

The University of Windsor is a full member of the Association of Universities and Colleges of Canada, and the International Association of Universities.

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FACULTY OF GRADUATE STUDIES

OFFICERS OF ADMINISTRATION

(Ext. 2107)

Dean

Dr. Patricia L. Weir; B.H.K., M.H.K. (Windsor), Ph.D. (Waterloo)-1991.

Associate Dean

Dr. James W. Gauld; B.Sc. (Queensland), B.Sc.(Hon) (Northern Territory), Ph.D. (Australian National)-2001.

Fluid Dynamics Research Institute

Interim Director: Dr. Gary W. Rankin

Great Lakes Institute for Environmental Research

Director: Dr. Daniel Heath

Humanities Research Group

Director: Dr. Antonio Rossini

Institute for Diagnostic Imaging Research

Director: Dr. Roman Maev

GRADUATE COUNCIL

One graduate faculty representative from each discipline or group of disciplines offering an OCGS approved program.

Ex-officio Members (with vote): Dean of Graduate Studies; Associate Dean, Graduate Studies; Vice-President, Research; President of the Graduate Student Society; University Librarian;

Four (4) decanal representatives, elected by the Faculty Deans;

Other members, to a maximum of two invited from the academic and/or administrative support services (non-voting);

Nine additional student representatives from the Graduate Student Society

COMMITTEES

Academic Standing Committee

Admissions Committee

Awards Committee

Executive Committee

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Nominating Committee

Membership elected annually from Graduate Council and graduate faculty.

For more on the Faculty of Graduate Studies, visit its website at www.uwindsor.ca/grad

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COURSE NUMBERING SYSTEM AND FACULTY AND PROGRAM CODES

Each course is identified by a three-part number. The first part refers to the Faculty, the second part to the subject area, the third to the level of the course. Thus, the course 02-46-501 would be a course in the Faculty of Arts and Social Sciences (02-), in the subject area of Psychology (46-) and would be at the graduate level. 100, 200, 300, and 400 numbers indicate undergraduate courses, while 500, 600 and 700 numbered courses are graduate level courses.

Note: some courses have stated prerequisites which are prior requirements for entry to a course. Students who do not satisfy the prerequisite for a course, or who in the opinion of the instructor do not possess an equivalent background to that of the stated prerequisite, may not register for the course, and may be removed if they register inappropriately.

Faculty of Arts and Social Sciences	01- (Arts)/02- (Social Sciences)
Faculty of Science	03-
Faculty of Business Administration	04-
Faculty of Education and Academic Development	05-
Faculty of Engineering	06-
Faculty of Human Kinetics	07-
Faculty of Law	08-
Faculty of Nursing	11-
Inter-Faculty Programs	14-

Program/Course Codes

Note: The Program/Course codes are preceded by the relevant Faculty code.

Arts and Science, 14-56-
Additional Qualification Courses, 05-79-
Biology, 03-55-
Business Administration:
Accounting, 04-70-
Business Strategy and Entrepreneurship, 04-75-
Finance, 04-72-
Management and Labour Studies, 04-71-
Management Science, 04-73-
Marketing, 04-74-
Chemistry and Biochemistry, 03-59-
Civil and Environmental Engineering:
Civil, 06-87-
Environmental, 06-93-
Languages, Literatures and Cultures:
Aboriginal Studies, 01-06-
Intercultural Studies, 01-07-
Multicultural Studies, 01-08-
Asian Studies, 01-10-
Classical Studies, 01-11-
Greek & Roman History, 01-12
Greek Languages & Literature, 01-13-
Latin Languages & Literature, 01-14-
German, 01-15-
Italian, 01-21-
Spanish, 01-23-

Communication Studies: 02-40-
 Computer Science, 03-60-
 Dramatic Art: 01-24-
 Earth Sciences:

 Geology, 03-61-
 Environmental Science, 03-66-
 Geography, 03-67-

Economics, 03-41-
 Education, 05-80-
 Electrical and Computer Engineering, 06-88-
 English, 01-26-

Environmental Studies, 14-58-
Forensics, 14-57-
French Studies, 01-29-
General Engineering, 06-85-
Geography: 02-42-
History, 02-43-
Industrial and Manufacturing Systems Engineering, 06-91-
Kinesiology, 07-95-
Labour Studies: 02-54-
Law service courses, 08-99-
Law courses, 08-98-
Mathematics and Statistics:

Mathematics, 03-62-
Statistics, 03-65-

Mechanical, Automotive, and Materials Engineering:

Mechanical, 06-92-
Automotive, 06-94-
Materials, 06-89-

Music:

Music Academic Studies, 01-32-
Music Performance Studies, 01-33-

Nursing, 11-63-
Philosophy: 01-34-
Physics, 03-64-
Political Science: 02-45-
Psychology: 02-46-
Social Justice: 02-38-
Social Work: 02-47-
Sociology and Anthropology:

Sociology, Criminology, 02-48-
Anthropology, 02-49-
Planning, 02-50

Visual Arts:

Visual Arts, 01-27-
Art History, 01-28-

Women's Studies, 02-53-

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RESEARCH INSTITUTES

THE GREAT LAKES INSTITUTE FOR ENVIRONMENTAL RESEARCH (GLIER)

The Great Lakes Institute for Environmental Research (GLIER) is a world-class combination of researchers, graduate programs, facilities and location - on the Canada-US border at the heart of the world's most economically significant freshwater system.

GLIER research is currently focussed on two interrelated themes that assess the impact of multiple stressors on large lakes and their watersheds. The stressors include metal and organic chemical contamination, species invasions, climate change, harvesting of populations, nutrient enrichment, and habitat destruction. The themes are environmental chemistry and toxicology, and conservation and resource management. GLIER's 5200 m², tri-level, dedicated facility on the Detroit River is without parallel in Canada. It includes over 25 extensively equipped laboratories, offices for researchers and post-doctoral and graduate students, and conference and meeting rooms. GLIER maintains a private boat launch on the Detroit River and has dedicated boats.

GLIER has the distinction of housing the only university-based environmental analytical laboratory in Canada accredited by the Canadian Association of Environmental Analytical Laboratories (CAEAL) to international standards of performance.

Further details of activities and facilities appear on GLIER's website at www.uwindsor.ca/glier.

The Environmental Science graduate programs are offered through GLIER. See [Environmental Science](#).

FLUID DYNAMICS RESEARCH INSTITUTE

The Fluid Dynamics Research Institute was founded to foster interdepartmental and inter-Faculty research and postgraduate teaching related to the dynamics of fluids. Members conduct basic and applied research, and are committed to providing a broad training for graduate students in all aspects of fluid mechanics and heat transfer. Members are drawn from Mechanical Engineering, Civil and Environmental Engineering, and Applied Mathematics. Research ranges from theoretical studies on stability and exact solutions to enhancement of flow measurement techniques to implementation of commercial computer codes and development of new codes for industrial problems. Application areas include civil engineering, environmental engineering, the automotive, defence and petroleum industries, biomechanics and aeronautics. Graduate students affiliated with Institute members in their research projects will register in the member's department and complete the degree requirements of that department.

Further details are available from <http://venus.uwindsor.ca/research/fdri/index.htm>.

INSTITUTE FOR DIAGNOSTIC IMAGING RESEARCH

The University of Windsor Institute for Diagnostic Imaging Research (the "Institute") is a multi-disciplinary collaborative research and innovation consortium dedicated to the development of innovative diagnostic imaging technologies and products using advanced and diverse imaging techniques. The Institute will develop intellectual property that will strengthen the University's ability to directly help diversify the region's economic sectors and increase the general competitiveness of the local region.

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STATEMENT OF RESPONSIBILITY OF THE UNIVERSITY

1. The content of this Calendar is provided for the general guidance of the student and is not intended to make any contractual commitments therefor. The Calendar is accurate at the time of publication, but programs, courses, staffing, etc. are subject to change from time to time as deemed appropriate by the University of Windsor in order to fulfill its role and mission, or to accommodate circumstances beyond its control. Any such changes may be implemented without prior notice and, unless specified otherwise, are effective when made. The official University of Windsor academic calendars are: the Undergraduate Web Calendar, the Graduate Web Calendar, and the Faculty of Law Calendar.

2. This Calendar represents the University of Windsor's best judgment and projection of the course of conduct of the University of Windsor during the periods addressed herein. It is subject to change due to forces beyond the University of Windsor's control or as deemed necessary by the University of Windsor in order to fulfill its educational objectives.

3. Advisors are provided to assist students in planning their academic programs. Advisors are not authorized to change established policy of the University of Windsor. Students are solely responsible for assuring that their academic programs comply with the policies of the University of Windsor. Any advice which is at variance with established policy must be confirmed by the appropriate Dean's Office.

4. Any tuition fees and/or other charges described herein are good faith projections for the academic year. They are, however, subject to change from one academic term to the next as deemed necessary by the University of Windsor in order to meet its financial commitments and to fulfill its role and mission.

5. There are other fees and charges which are attendant upon a student's matriculation at the University of Windsor. These fees or charges may be determined by contacting the University offices which administer the programs or activities in which the student intends to enroll or engage.

6. The University of Windsor reserves the right to terminate or modify program requirements, content, and the sequence of program offerings from term to term for educational reasons which it deems sufficient to warrant such actions.

Further, the University of Windsor reserves the right to terminate programs from term to term for financial or other reasons which it determines warrant such action. The content, schedule, requirements and means of presentation of courses may be changed at any time by the University of Windsor for educational reasons which it determines are sufficient to warrant such action. Programs, services, or other activities of the University of Windsor may be terminated at any time due to reasons beyond the control of the University of Windsor.

7. The course descriptions herein are based upon reasonable projections of faculty and faculty availability and appropriate curriculum considerations. The matters described are subject to change based upon changes in circumstances upon which these projections were based and as deemed necessary by the University of Windsor to fulfill its role and mission.

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Notification of Disclosure of Personal Information to Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrollment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrollment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from Statistics' Canada's web site: <http://www.statcan.ca> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.

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ODETTE SCHOOL OF BUSINESS

THE MASTER OF BUSINESS ADMINISTRATION DEGREE (MBA)

M.B.A. PROGRAM SEQUENCE

The program will consist of five teaching modules

Module 1: Business Fundamentals

76-501 Interpersonal Dynamics
76-502 Core Concepts of Accounting I
76-503 Introduction to Financial Management
76-505 Marketing Management.
76-511 Research Methodology

Module 2: New Venture

76-510 Core Concepts of Accounting II
76-512 Financial Management.
76-513 Human Resources Management.
75-690 Entrepreneurship: New Venture Formation and Management

Module 3: Managing Growth

76-504 Quantitative Techniques in Management
71-600 Business Ethics and Sustainability
74-631 Consumer Behaviour
75-611 Project Planning I

Module 4: Managing in a Mature Market

71-646 Dynamics of Business Negotiations
75-698 Strategic Management
76-514 Management Information Systems.
75-612 Project Planning II

Module 5: Specialization

Three 600-level business courses

The Major Paper

Students may choose a major paper option. All students choosing this option must have a detailed major paper proposal approved by at least two faculty members in the Odette School of Business. These two faculty members will have primary responsibility for supervising the student's work. The approved proposal application form must be submitted to the Assistant to the Dean in order to register for the major paper (76-796). An oral defence will be required.

The major paper will be graded, will receive six credits and will substitute for two 600-level course electives.

The Thesis

Students may choose a thesis option. All students choosing this option must have a detailed thesis proposal approved by at least two faculty members in the Odette School of Business and by one faculty member external to the School but from within the University. An oral defence will be required.

The thesis will be graded, will receive twelve credits and will substitute for four 600-level course electives.

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Programs (Listed Alphabetically)	MASTER OF BUSINESS ADMINISTRATION DEGREE CO-OPERATIVE EDUCATION
Programs (Listed by Department)	<i>Note: Admissions to the MBA Co-op Program will be suspended as of Fall 2008.</i>
Programs (Listed by Faculty)	Course Requirements
Graduate Diploma Programs	The M.B.A Co-op requires eleven 500-level courses in the first year.
Courses	The major paper is weighted as two courses; the thesis as four. A student writing a major paper or thesis would require eight or six additional courses respectively. Fast Track students who do not complete a co-op work term will be required to complete a major paper in addition to the ten courses. 75-698 is required of all MBA students.
Alphabetical by Department	Students will be allowed to pursue a general M.B.A. or choose one specific area of concentration. Areas of concentration include Business Strategy and Entrepreneurship, Finance, International Business, Marketing, Management and Labour Studies, Management Science and Production/Operations Management. To obtain an area of concentration, courses must be completed as follows:
Admission Information	BUSINESS STRATEGY AND ENTREPRENEURSHIP
Application Information	75-680. Managing the International Enterprise
Awards and Financial Aid	75-682. Manufacturing Strategy
Registration	75-690. Entrepreneurship: New Venture Formation and Management
Academic Regulations	Plus any two of:
Faculty Regulations	75-692. Topics in Strategic Management
Additional Degrees	74-639. Marketing Strategy and Planning
Exam and Grading Procedures	71-613. Leadership and Organizational Change
Authorship and Plagiarism	FINANCE
Graduation	72-672. Cases in Financial Management
Faculty of Graduate Studies	70-651. Reporting, Analyzing, and Using Accounting Information
Graduate Faculty Designation	Plus any three of:
Calendars	72-670. Investment Analysis and Management
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Course Numbering System	72-674. International Financial Management
Research Institutes	INTERNATIONAL BUSINESS
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Main University Secretariat	75-680. Managing the International Enterprise
	Plus any one of:
	45-566. International Political Economy
	41-510. Theory of International Trade
	or a Topics course with an international focus offered by any of the Areas
	MARKETING
	74-639. Marketing Strategy and Planning
	Plus any three of:
	74-631. Consumer Behaviour
	74-632. Marketing Research
	74-635. International Marketing
	74-638. Special Topics in Marketing
	Plus any one of:
	72-672. Cases in Financial Management
	75-680. Managing the International Enterprise
	75-682. Manufacturing Strategy
	or a Topics course being offered by one of the other Areas whose content is relevant to Marketing.

MANAGEMENT SCIENCE

73-603. Management Science Methods
73-605. Operations Management
73-606. Strategic Implementation for Technologies Management

Plus any two of:

73-602. Topics in Management Science
60-537. Database Management Systems
60-538. Information Retrieval Systems
60-539. Emerging Non-traditional Database Systems
91-504. Advanced Operations Research I
91-505. Advanced Operations Research II
91-511. Stochastic Processes
91-502. Manufacturing Systems Simulation
91-500. Optimization
91-503. Production and Inventory Control Systems
91-508. Reliability Engineering

MANAGEMENT AND LABOUR STUDIES

71-613. Leadership and Organizational Change
71-643. International Management
71-646. Business Negotiations and Problem Solving
71-647. Managing Diversity in the Work-place

Plus any one of:

71-648. Topics in Management and Labour Studies
95-500. Sport Leadership

PRODUCTION/OPERATIONS MANAGEMENT

73-604. Operations Management
75-682. Manufacturing Strategy

Plus any three of:

73-602. Topics in Management Science
74-631. Consumer Behaviour
75-680. Managing the International Enterprise
41-531. Industrial Organization
91-509. Computer-Integrated Manufacturing
91-512. Flexible Manufacturing Systems

THE MAJOR PAPER

Students may choose a major paper option. All students choosing this option must have a detailed major paper proposal approved by at least two faculty members in the Odette School of Business. These two faculty members will have primary responsibility for supervising the student's work. The approved proposal application form must be submitted to the Assistant to the Dean in order to register for the major paper (76-796). An oral defence will be required.

The major paper will be graded, will receive six credits and will substitute for two 600-level course electives.

THE THESIS

Students may choose a thesis option. All students choosing this option must have a detailed thesis proposal approved by at least two faculty members in the Odette School of Business and by one faculty member external to the School but from within the University. An oral defence will be required.

The thesis will be graded, will receive twelve credits and will substitute for four 600-level course electives.

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MASTER OF BUSINESS ADMINISTRATION DEGREE (FAST-TRACK PROGRAM)

Note: Admissions to the MBA Co-op Program will be suspended as of Fall 2008.

This program is designed for students who have graduated from a four-year honours business program. Fast Track M.B.A. students are exempt from the first (qualifying) year of the regular program, entering directly into the second (candidate) year. It includes not only traditional academic course work but also a co-operative work placement with selected organizations. The program is purposely designed to provide practical knowledge based experience usually not available at an undergraduate level.

FAST TRACK M.B.A. PROGRAM STUDY SEQUENCE

Fall Term

76-660. Management Skills Development
plus workshops and four 600-level Business courses

Winter Term

76-711. Work Term

Summer Term

75-698. Strategic Management
plus workshops and four 600-level Business courses

Students who are unable to complete the work term (76-711) will write a major paper (76-796).

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ODETTE SCHOOL OF BUSINESS

M.B.A FOR MANAGERS AND PROFESSIONALS

The M.B.A for Managers and Professionals is an accelerated program geared toward students who are employed full-time and have accumulated significant experience in management and business practices. For additional information contact the Centre for Executive Education at www.uwindsor.ca/execed.

Admission Requirements

- 1) Four-year (honours) undergraduate degree;
- 2) Three years of work experience in managerial or professional positions;
- 3) Applicants must achieve a satisfactory score on the GMAT to be granted admission to the MBA for Managers and Professionals. Applicants who hold an M.B.A from a non-Canadian University or a Ph.D. (or equivalent degree) in any discipline will not be required to write the GMAT. The GMAT requirement may be waived for applicants who can demonstrate the following: (1) Successful performance in a job that has an extensive quantitative component (comptroller, quality assurance supervisor, engineer, etc.); and (2) a 70% average or better in an undergraduate degree that emphasizes quantitative skills (such as Engineering, Mathematics, Statistics, and the like), or performance at the 70% or better level in a recent Mathematics or Statistics course at a recognized University. The GMAT will strengthen the application.
- 4) An applicant whose first language is not English and who has not worked in an English-speaking environment for at least three years would have to demonstrate adequate command of English by an appropriate score on the TOEFL, CAEL, or other recognized test;
- 5) Satisfactory performance on a personal interview. Interviews will be conducted for prospective students.

Students with an Honours B.Comm.

Applicants who have a four-year B.Comm. or equivalent business degree could be admitted directly to the second year of the Professional M.B.A if they meet the above criteria and furthermore:

- (a) have completed their degree no more than five years before the cut-off date for applications;
- (b) had an average of 70% or higher in their program.

Program Curriculum

Total courses: 20

As with the regular M.B.A. program, all required courses are offered by the Odette School of Business Administration. In this program students will follow a prescribed sequence of courses in cohort fashion, with no electives - an approach that is not uncommon in M.B.A. programs directed at working managers and executives.

Program Sequencing

Courses are scheduled on alternate weekends; contact time is supplemented by Web-based instruction and team assignments. Students complete two courses concurrently before moving to the next two courses.

Year 1

- 77-521. Core Concepts of Accounting I
- 77-522. Introduction to Financial Management
- 77-523. Quantitative Techniques in Management
- 77-524. Managing People in Organizations
- 77-525. Business Research Methods
- 77-531. Core Concepts of Accounting II
- 77-532. Financial Management
- 77-533. Management Information Systems
- 77-534. Managing Human Resources
- 77-535. Marketing Management

Year 2

- 77-620. Reporting, Analyzing, and Using Accounting Information
- 77-621. Leadership and Organizational Change
- 77-623. Maximizing the Value of the Organization
- 77-624. Managing in the International Arena
- 77-625. Strategic Management
- 77-626. Strategic Implementation for Technologies Management
- 77-627. Business Negotiation and Problem Solving
- 77-628. Entrepreneurship and Intrapreneurship

77-629. Current Issues in Business

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ODETTE SCHOOL OF BUSINESS / FACULTY OF LAW

INTEGRATED M.B.A./J.D. PROGRAM

This special program provides students interested in a career combining management and legal skills with an opportunity to complete the M.B.A. and J.D. degrees in four years. The program is jointly administered by representatives of the Odette School of Business, the Faculty of Law, and the Faculty of Graduate Studies.

Admission Requirements

The admission procedure for the integrated program consists of two stages. At the first stage, students applying to the program must meet the admission requirements of both the M.B.A. and J.D. programs. Therefore separate applications must be submitted to the Faculty of Law and the Faculty of Graduate Studies for admission to the regular degree program in Law and the M.B.A. To facilitate academic and career planning, it is strongly suggested that these applications be made simultaneously. Students who are accepted to both the M.B.A. and J.D. programs will be accepted to the integrated program, and will proceed to attend first year in either Faculty. Such students will be granted a deferred admission to the other Faculty in the program.

This special deferred admission will be revoked if the applicant's performance in the first program fails to meet the first-year academic standards of the program. In such case the applicant may re-apply for regular admission to the second degree program.

Applications will also be considered for entry to the program from candidates who are attending the first year of either the J.D or M.B.A. programs. They must meet the admissions requirements and application deadline for the program for which they are seeking entry.

Application Deadlines

Faculty of Law - November 1 (J.D)

Faculty of Graduate Studies - June 1 (M.B.A.)

For application materials please contact each of the following separately:

For the J.D:

Ontario Law School Application Service

P.O. Box 1328

170 Research Lane

Guelph, Ontario

N1G 5E2

Telephone: (519) 823-5232

Website: www.ouac.on.ca/olsas

For the M.B.A:

Odette School of Business

M.B.A. Admissions

University of Windsor

Windsor, Ontario

N9B 3P4

mba@uwindsor.ca

Website: www.uwindsor.ca/mba

TERM PLANNING

The M.B.A./J.D. Program offers students the opportunity to experience two enriching education experiences, two degrees, in an accelerated, integrated manner.

M.B.A./J.D. students can enter into the program in one of two ways:

- i) Defer law studies for one year, complete 18 course credits toward the MBA (with only the Major Paper (04-76-796), weighted at two course credits, remaining for completion) and then study Law in the regular manner for three years.
- ii) Complete Year 1 of law studies and take a one-year leave of absence from Law. Once at the Odette School of Business, complete 18 course credits toward the MBA (again, with only the Major Paper (04-76-796) remaining for completion) and then return to Law and study in the regular manner for the remaining two years.

Option (i) is preferred because it allows the student to study with a cohort in both programs; however, students interested in the MBA who have completed only the first year of Law at the University of Windsor will have no problem completing the requirements in the two remaining years of study.

The sequence of courses would be identical to those studied by all MBA students, with two exceptions (noted in italics). In Module 2 and extending into Module 3, MBA/JD students will be required to complete one extra credit, an independent study (Directed Study 04-76-661), to bring their eventual total to 18 course credits. This independent study is a business course

(Directed Study 04-76-661), completed through Odette, and it should not be confused with the Supervised Research Option available through Law. With earning the 18 M.B.A. course credits, only the major paper (again, worth the equivalent of two courses) would remain to complete the program. The sequence is presented below:

Please note that students will be registered in Module 4 for the Major Paper (76-796), which will receive 'IP' status at the end of the module.

Module 1: Business Fundamentals
 76-501 Interpersonal Dynamics
 76-502 Core Concepts of Accounting I
 76-503 Introduction to Financial Management
 76-505 Marketing Management.
 76-511 Research Methodology

Module 2: New Ventures
 76-510 Core Concepts of Accounting II
 76-512 Financial Management.
 76-513 Human Resources Management.
 75-690 Entrepreneurship: New Venture Formation and Management
 + 76-661 Directed Study (for MBA/JD students only)

Module 3: Managing Growth
 76-504 Quantitative Techniques in Management
 71-600 Business Ethics and Sustainability
 74-631 Consumer Behaviour
 75-611 Project Planning I

Module 4: Managing in a Mature Market
 71-646 Dynamics of Business Negotiations
 75-698 Strategic Management
 76-514 Management Information Systems.
 75-612 Project Planning II
 + 76-796 Major Paper (for MBA/JD students only)

To complete the two degrees, as stated, students commence (or return to) law studies in September. They are registered in Law and finish the remaining two or three years of the program (whichever is applicable). During the final year of Law studies (likely in the winter semester), the students will also submit and present their major papers. Once completed, a grade is assigned for the Major Paper and the 20 course credits required for the MBA are fulfilled.

The sequence conforms as closely as possible to the parameters that guided the old program sequence. In fact, the present model is actually simpler, without the multiple changes in program status that were required with the old two-year MBA.

The registration of students is straightforward. While studying for the core 18 course credits of the M.B.A., all students are registered full-time in the MBA (from September until August). However, when they return to Law the following autumn, the students will revert to full-time Law. They will complete the Major Paper (04-76-796) under that status, using the MBA/JD program status in SIS. Once completed, the Major Paper (04-76-796) will have its "IP" status converted to the grade that was earned.

**Sample Progression through the J.D. Program
 (with MBA courses completed before LAW I or between Law I and II)***

The following chart sets out a typical path through the MBA/JD. All program requirements in Law and the MBA must be met regardless of the entry point into the program.

	Fall Required Courses (# Credits)	Winter Required Courses (# Credits)	Summer	Comments
Law I	JD program as prescribed		N/A	
Law II	Torts and/or Civ Pro (4) Business Associations (4) + 6 credits as electives Total Credits: 14	Torts and/or Civ Pro (4) + 11 electives Total Credits: 15	N/A	13/29 and 18/32 rule applies
Law III	Evidence (4) Supervised Research(3)*** Law Electives (8) Total Credits: 15	Judicial Review (4)** Law Electives (10) Total Credits: 14 MBA Major Paper (04-76-796) Defense	N/A	13/29 and 18/32 rule applies - 3 MBA Major Paper credits permissible by application

*Law students must earn a minimum of 13 credits per term and 29 credits over the year and a maximum of 18 per term and

32 over the year. They must also meet Law's other curricular requirements. To that end and to facilitate the writing of the MBA Major Paper (04-76-796), Law students may apply to allocate three credits to MBA Major Paper work and to count these credits towards the 13/29 minimum requirement in Law III. Students must ensure that they apply to the Academic Program Committee of the Faculty of Law via the Office of the Associate Dean at the beginning of their term to have their MBA Major Paper (04-76-796) work apply to their Law minimum credit requirement. Application deadlines are posted on the Faculty of Law's website.

The MBA Major Paper (04-76-796) for the purposes of the MBA/JD is to have a legal relevance, although the supervisor will be from Odette and a member of Faculty of Graduate Studies (FGS). The reader may be from Law if he or she is a member of the FGS. Otherwise, Odette may consult with Law about the paper and/or include a representative as a third committee member.

The MBA major paper will be approximately 50 pages in length, inclusive of bibliography and appendices (based on 250 words per page).

***Students may also register for a Law Supervised Research Paper as part of electives in Law II or III. The Supervised Research Paper may be adapted for use in the MBA Major Paper but not form a chapter of the Major Paper. Supervised Research papers worth three credits are approved by the Office of the Associate Dean, whereas papers worth four credits are approved by the Academic Program Committee. Supervised papers worth four credits generally require an empirical component. Students who intend to adapt the Supervised Research to their MBA Major Paper (04-76-796) (or visa versa) should discuss their proposal with supervisors in both programs.

The MBA Major Paper (04-76-796) is to be defended during Law III year with timing determined by Odette in consultation with Law

Total Law credits over 3 years: $34 + 26 + 26 = 86$ [minimum required by Federation of Law Societies for Dual/Joint Program is 80, minimum for a regular JD student is 90]

**These courses are highly recommended but not currently required. They may become required for all students graduating from Law in 2015 and beyond. Students intending to practice law are encouraged to take these courses to satisfy the competency requirements identified by the Federation of Law Societies. These courses may be taken in any term but the 13/29 rule must be met.

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Manufacturing Field

78-652. Marketing Strategy and Planning

78-653. Manufacturing Strategy

78-654. Manufacturing and Globalization (Stream capstone)

Logistics and Supply Chain Management Field

78-655. Domestic Transportation and International Shipping

78-656. Quantitative Analysis for Logistics and Supply Chain Management

78-657. Supply Chain Management (Stream capstone)

International Accounting and Finance Field

78-661. Consolidated financial statements

78-662. Accounting Systems Control and Auditing

78-663. Corporate Governance (Stream capstone)

Human Resources Management Field

78-665. International Management

78-666. Managing for High Performance

78-667. Current HR Trends (Stream capstone)

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THE MASTER OF BUSINESS ADMINISTRATION DEGREE

The purpose of the Master of Business Administration program is to provide broad graduate study in the general field of business administration. It provides students with three important components to prepare them for management positions; academic knowledge, job skills and work experience.

Graduate students have the opportunity of expanding their accounting, administrative, finance, marketing, management science and strategy expertise. The program emphasizes knowledge that prepares students for careers in private industry and business, for the public service, and for doctoral studies.

Admission Requirements

1) Applicants who have secured satisfactory standing (at least a B- average) in their undergraduate work may be admitted. Major consideration is given to the performance during the last two years of the undergraduate program. Applicants without an undergraduate degree who possess at least ten years of significant and senior professional, managerial or entrepreneurial experience may be considered for admission to the MBA program. Possession of the minimum requirements for admission does not ensure acceptance.

Students must write the GMAT before applying for admission to the Faculty. Applicants who hold an M.B.A or a Ph.D. from a foreign University (or equivalent degree) in any discipline may not be required to write the GMAT. (Details of the Test may be obtained from [The Educational Testing Service](#), Princeton, New Jersey, 08540.) The order form for the Bulletin of Information for the [GMAT](#) is available in the [Office of the Registrar](#) and in the M.B.A office.

2) Students in the candidate year who maintain a 70% average or better will qualify for the M.B.A. degree.

Professional Accounting Designation

Students who are interested in pursuing both a professional accounting designation (*i.e.*, C.A., C.M.A., C.G.A., C.P.A., or Post-Graduate Certificate in Accounting) and the M.B.A. are advised to complete their accounting course requirements while being registered in the Bachelor of Commerce for University Graduates program and then to apply for admission directly to the M.B.A. program.

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PhD ADMISSION REQUIREMENTS

Graduates of recognized universities may apply for admission. In general, admission to graduate study is granted only to those students who have good academic records and who are adequately prepared to undertake graduate work in their field of specialization. In particular, an applicant for admission to a graduate program leading to the degree of Doctor of Philosophy must have either a Master's degree or, in exceptional cases, a four-year Bachelor's degree, or the equivalent; his or her academic standing should be unquestionably superior.

Possession of the minimum requirements does not ensure admission.

Applications will be received from students in their final undergraduate or Master's year, but acceptance will be conditional until a satisfactorily completed record is submitted.

Candidacy: Admission to graduate study does not imply admission to candidacy for a degree. Admission to candidacy for the degree of Doctor of Philosophy is granted by the Dean of Graduate Studies, upon recommendation of the program concerned, when a student has satisfied the requirements for candidacy of the Faculty of Graduate Studies and of the program, as these may be specified in program listings in the calendar. Admission to candidacy is normally to be regarded as recognition that a student has given adequate evidence of superior capability and achievement in graduate study. A student may not be admitted to candidacy for the degree of Doctor of Philosophy before passing a comprehensive examination in the field of specialization.

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PhD PROGRAM REQUIREMENTS

Residence: Residence requirements are intended to provide for each student an adequate contact with the University, with the faculty in the field of specialization, and with the library, laboratories, and other facilities for graduate study and research. Every student in a program leading to the degree of Doctor of Philosophy must be registered in a full-time program of study for a minimum of three calendar years, normally in succession. Credit for one of these years may be given for the time spent in proceeding to a Master's degree.

Credit for no more than one-half of the required courses for a program, taken at another university, may be given at the discretion of the Faculty of Graduate Studies, upon recommendation of the program coordinator.

A full-time residence year indicates that a student is in full-time work under the direction of a faculty member at the University of Windsor. Persons who teach more than three hours a week or who demonstrate in laboratories to such an extent that the total time spent in preparation, demonstration and working exceeds ten hours a week cannot qualify for residence credit.

Time Limit: A student admitted to a Ph.D. program requiring full-time attendance for three years must complete all requirements for the Ph.D. within seven consecutive years.

A student admitted with one year's advanced standing (e.g., holders of Master's degrees) must complete all requirements within six consecutive years.

If an extension of the time limit becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.

Course of Study: Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program coordinator or a designated departmental advisor. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program coordinator or an advisor. Training in methodology may be required, at the discretion of the program.

Since in several programs only a few courses listed will be offered each year, students are advised to ascertain from the program coordinator or an academic advisor which courses will be offered in any given year.

In consultation with their advisor or the program coordinator, all students must complete an Annual Report which is to be submitted to the Office of Graduate Studies by May 31 of each year.

It is expected that students working toward the degree of Doctor of Philosophy will maintain a superior average in all course work. Normally, graduate credit will be given only for courses in which a minimum 70% grade has been achieved. Concerning credit for grades between 60-69%, see [Grading and Dropping Courses](#).

After consultation between student and professor and authorization by the program coordinator, a graduate course may be recorded INC (Incomplete) when:

- 1) the student has completed the class work but is unable to take the end of course examination because of illness or other acceptable reason, or
- 2)
 - (a) the student is unable to complete the work for the course because of illness or other acceptable reason, and
 - (b) the student has done satisfactory work in the course, and
 - (c) in the opinion of the professor, the student can complete the normally required work of the course without repeating the course in class.

Committees: Research undertaken as part of a doctoral program is normally directed and supervised by a doctoral committee.

By the end of the first term of registration in the dissertation, the program coordinator will recommend the appointment of members of the doctoral committee, whose appointments must be approved by the Executive Committee of the Faculty Council of Graduate Studies. At the same time the candidate will be required to validate the *Non-Exclusive License to the University of Windsor* authorizing the University to archive, reproduce, and distribute the dissertation.

The doctoral committee will consist of a research advisor from the program, who is a member of graduate faculty, two other faculty members in the program, and one from another program at the University of Windsor. Additional members may be added with the approval of the program coordinator and the Executive Committee of the Faculty Council of Graduate Studies. This committee will, from time to time, review the student's progress.

The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status.

The doctoral committee is also charged with conduct of the final examination of the doctoral candidate (see below).

For the defense of the dissertation (final oral examination), the committee will be supplemented by an independent, external examiner who, as an expert in the field in which the candidate's research is carried out, will appraise the dissertation and ordinarily will also be present at the final oral examination.

The external examiner will be recommended by the doctoral committee, subject to the approval of the program coordinator and the Dean of Graduate Studies. The external examiner must not be involved in the preparation of the dissertation before it is submitted to him or her for final evaluation.

If the research involves human ethics, the faculty supervisor is responsible for the conduct of the study, the ethical performance of the project, and the protection of the rights and welfare of human participants. With the signed approval of the faculty supervisor, the graduate student submits an application to the Research Ethics Board. Research involving human subjects, including secondary use of data, cannot begin until ethics clearance has been obtained. (Consult the Office of Research Services.)

If the research involves animal care or biohazards, the supervisor of the dissertation is responsible for obtaining prior approval from the respective committees governing the above topics. (Consult the Office of Research Services.)

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PhD DISSERTATION

A dissertation embodying the results of an original investigation in the field of specialization is required of all candidates for the degree of Doctor of Philosophy. Before beginning the dissertation, the candidate should submit a prospectus, outlining the problem proposed. Copies of this prospectus should be filed with the doctoral committee not later than four weeks after the student is admitted to candidacy.

The regulations of individual programs should be consulted for details of their dissertation procedures. The general format is prescribed in the *Guidelines for Major Papers, Theses, and Dissertations*, which may be obtained from the Administrative Officer in the Office of Graduate Studies or from www.uwindsor.ca/grad. Within the dissertation, the student should use formats approved for scholarly publication in the field of specialization and approved by the program coordinator. Final checking of the general format of the dissertation is the responsibility of the Office of Graduate Studies, but the student should consult the doctoral committee for instructions as to the internal form of the dissertation.

Copies of a Ph.D. dissertation are to be provided to all members of the doctoral committee and two copies to the Office of Graduate Studies, of which one copy will be transmitted to the external examiner, at least four weeks before the expected date of defense. Before the dissertation is forwarded to the external examiner, it must be approved by the majority of the doctoral committee. No changes may be made to the composition of the doctoral committee between these deadline dates and the defense except under the most extraordinary circumstances and with approval of the Executive Committee of Graduate Studies. The oral presentation should be completed at least three weeks prior to the Convocation for which the candidate has applied to receive the degree. A public notice of defense must be received in the Office of Graduate Studies and posted in the academic unit at least eight days in advance of the oral presentation.

A doctoral committee shall notify the Office of Graduate Studies whether, in its view, notice of defense is to be posted, but the decision to proceed shall be contingent upon the report of the external examiner to the Dean of Graduate Studies.

The candidate will present the dissertation at a public defense. The Chair of a Ph.D. defense will be the Dean of Graduate Studies or designate, such as the Associate Dean of Graduate Studies, Dean of a Faculty or senior member of graduate faculty from outside the program, to be named by the Dean of Graduate Studies at the time the defense is publicly announced. The chair is non-voting. Questions will be permitted from the general audience at the discretion of the chair. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held in camera.

The minimum basis for acceptance of a Ph.D. dissertation shall be positive unanimity less one vote providing the dissenting vote is not by an external examiner who is present at the defense, and the chair of the defense determines that the examination by the external examiner has been fair to the candidate. Unless an examining committee is unanimously negative, a candidate may resubmit the dissertation once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.

Copies of the corrected dissertation must be deposited with the Administrative Officer in the Office of Graduate Studies at least two weeks prior to Convocation.

The title page of the dissertation, or a separate page immediately following the title page, must bear the Universal Copyright Convention symbol ©, the full name of the author, and the year the doctoral degree was granted. Arrangements for binding the dissertation and payment of fees connected with binding and microfilming should be made with the Administrative Officer. The Office of Graduate Studies will transmit a copy of the dissertation to the National Library, accompanied by a "Theses Non-Exclusive License", supplied by the Office and validated by the candidate, which authorizes the National Library to produce single copies, in response to a formal request from an individual, a research institute, or a library.

If approved, the physical dissertation becomes the property of the University. Two copies, the original (after return from the National Library) and one other, will be filed in the Leddy Library, and a third copy in the academic unit.

Occasionally, it is necessary to withhold the dissertation from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis may be held from the public domain, i.e., the Leddy Library and the National Library of Canada. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding a thesis are available from the Office of Graduate Studies.

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- 1) Dissertation format must be as prescribed by *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the dissertation must be provided to all committee members and two copies to the Office of Graduate Studies at least four weeks before the oral defense, which must occur at least three weeks prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of defense must be received in the Office of Graduate Studies and posted in the academic unit at least eight (8) days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit copies of the dissertation in the Office of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) The candidate will validate a "Theses Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing the National Library to produce single copies. The title page of the dissertation, or separate page following, must bear the Universal Copyright Convention symbol ©, full name of author, and year the doctoral degree was granted.
- 6) Fees for above are to be paid at time of deposit of the dissertation in the Office of Graduate Studies .

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PhD EXAMINATIONS

In addition to the usual examinations on course work, there are three types of special examinations which may be required (see individual program regulations) in the program leading to the degree of Doctor of Philosophy:

1) *Qualifying Examinations*: A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed within one year after a student enters a graduate program.

2) *Comprehensive Examinations*: The comprehensive examination is one in which the student is asked to demonstrate a reasonable mastery of the field of specialization; it is designed to test the student's command of knowledge and ability to integrate that knowledge, after completion of all or most of the graduate course work. Normally, this examination is completed at the end of the second year of graduate study and is a prerequisite to admission to candidacy.

3) *Final Examinations*: The final examination of a doctoral candidate is an oral defense of the dissertation.

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MASTER'S ADMISSION REQUIREMENTS

Graduates of recognized universities may be admitted to programs leading to the Master's degree. A student with a four-year degree or equivalent in the discipline to which s/he is seeking admission, and who has an academic standing equivalent to 70% or better in the final two years of study (full time equivalent) may be admitted to a Master's program (M2).

An applicant who holds a four-year degree in another discipline, and who has an academic standing equivalent to a 70% or better overall and in the final year of study and the major subject, may also be admitted to a Master's program as a transitional student. Transitional students are normally required to complete a program of no more than five specified undergraduate courses in addition to the graduate courses required of regular students. Upon completion of these extra courses, with a minimum grade as specified by the program, the student may continue in the Master's program as a regular student.

An applicant who does not meet minimum departmental program admission requirements, but who can present evidence of leadership, and/or substantial related work experience, may be considered for probationary admission upon the recommendation of the program. Students who are accepted on probation will be required to satisfactorily complete a minimum of two specified graduate courses, in addition to any other admission requirements, before conditions are waived. During the probationary period no more than two graduate courses may be taken. A student will not normally continue on probationary admission for more than two terms. Graduate credit will be given for the graduate courses after the conditions are waived. The final decision on probationary admission rests with the Faculty of Graduate Studies.

An applicant who holds a three-year degree in the discipline to which s/he is applying, or a four-year degree in another discipline, and who has an academic standing equivalent to 70% or better overall and in both the final year of study and major subject may be admitted as a qualifying student, with a recommendation for advancement to M2 level contingent upon completion of a prescribed set of qualifying courses, with a minimum grade as specified by the program. Since qualifying students are not candidates for a degree, a qualifying student is not considered a graduate student.

Applicants are urged to apply as early as possible to enable the program and the Faculty of Graduate Studies to evaluate qualifications.

Possession of the minimum requirements does not ensure admission.

Candidacy: A student in an M2 program is also a candidate for the Master's degree. Students in the two-year M1 program followed by the M2 program are not admitted to candidacy until they have satisfactorily completed the M1 program. A positive recommendation from a program and approval of that recommendation are required for a student to proceed to the M2 program.

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MASTER'S PROGRAM REQUIREMENTS

Residence: Residence requirements are intended to provide for each student an adequate contact with the University, with the faculty in the field of specialization, and with the library, laboratories, and other facilities for graduate study. It is expected, therefore, that every full-time student in a program leading to the Master's degree will undertake a full program of study at the M2 level for a minimum of one calendar year or its equivalent. Application and interpretation of the residence requirement is the responsibility of the Dean of Graduate Studies. If a student does not expect to fulfil the residence requirement in the normal way, reasons for departing from the norm should be submitted in writing to the Dean and approval secured for the plan before beginning the graduate program. See also the section on "Duration of Study" below.

The residency requirement is not intended to apply to students admitted to graduate programs on a part-time basis.

Duration of Study: The minimum duration of study for the Master's degree is one calendar year beyond the honours Bachelor's degree, or its equivalent. Credit for no more than one-half of the required courses for the program taken at another university may be given at the discretion of the Dean of Graduate Studies, upon the recommendation of the program coordinator. Residency still applies.

Time Limit: Work on a Master's degree must be completed within three consecutive calendar years after the student's first registration, except for certain Master's programs available on a part-time basis. In these latter programs, the time limit will depend on the nature of the program, but will not normally exceed five consecutive years.

If an extension of these time limits becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.

Course of Study: Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program coordinator or a designated advisor. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program coordinator or an advisor. Students are directed to obtain the approval of the program coordinator or designated advisor for changes in the program of study. Training in methodology may be required, at the discretion of the program.

In consultation with their advisor or the program coordinator, all students must complete an Annual Report which is to be submitted to the Office of Graduate Studies by May 31 of each year.

Students working toward the Master's degree must maintain at least a 70% average in all course work. A candidate for the Master's degree who does not obtain graduate credit in any course may repeat the course once only, and not more than one course may be repeated. Normally, graduate credit will be given only for courses with a minimum grade of 70%. Concerning credit for grades between 60-69%, see section "[Examination and Grading Procedures](#)". Letter grades or Satisfactory/Unsatisfactory may be assigned for theses, major papers, and projects depending on individual program policy.

After consultation between student and professor and authorization by the program coordinator, a graduate course may be recorded as INC (Incomplete) when:

- 1) the student has completed the class work but is unable to take the end of course examination because of illness or other acceptable reason, or
- 2)
 - (a) the student is unable to complete the work for the course because of illness or other acceptable reason, and
 - (b) the student has done satisfactory work in the course, and
 - (c) in the opinion of the professor, the student can complete the normally required work in the course without repeating the course in class.

Committees: Research undertaken as part of a Master's program is normally directed and supervised by a Master's committee. By the end of the first term of registration in the thesis, the program coordinator will recommend the appointment of members of the Master's committee, whose appointments must be approved by the Executive Committee of the Faculty Council of Graduate Studies. At the same time the candidate will be required to validate the *Non-Exclusive License to the University of Windsor* authorizing the University to archive, reproduce, and distribute the thesis.

The Master's thesis committee will include as a minimum the chief advisor from the program, who is a member of graduate faculty, and two other University of Windsor faculty members, one of whom shall belong to a program other than the one in which the student is obtaining the degree. Additional members may be added with the approval of the program coordinator and the Executive Committee of the Faculty of Graduate Studies. The member(s) from outside the program need not participate in the direction of research but shall contribute a judgment on its completion.

The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status.

The role of faculty members holding Limited Term Appointments will be limited to participation on Master's committees and only in the following capacity: co-supervisor; internal department reader; outside department reader.

The Master's committee is also charged with conduct of the final examination of the Master's candidate (see below).

If the research involves human ethics, the faculty supervisor is responsible for the conduct of the study, the ethical performance of the project, and the protection of the rights and welfare of human participants. With the signed approval of the faculty supervisor, the graduate student submits an application to the Research Ethics Board. Research involving human subjects, including the secondary use of data, cannot begin until ethics clearance has been obtained. (Consult the Office of Research Services.)

If the research involves animal care or biohazards, the supervisor of the thesis is responsible for obtaining prior approval from the respective committees governing the above topics. (Consult the Office of Research Services.)

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MASTER'S THESIS OR MAJOR PAPER

A thesis incorporating the results of an investigation in the field of the major subject may be required of candidates for the Master's degree.

Candidates for some Master's programs may choose, instead of the course of study including a thesis, a program requiring additional course work and/or the submission of a major paper or project on which there will be a final evaluation. The Major Paper/Project is a scholarly essay/research project that shows evidence of critical analysis and understanding on a topic approved by the student's supervisor and acknowledged by the program coordinator.

The Major Paper/Project committee will include a supervisor, who is a member of graduate faculty, and one other program faculty member. Additional members may be added with the approval of the program coordinator.

Upon completion of the Major Paper/Project each student will deliver a public oral presentation and defense which shall be announced publicly (with a copy sent to the Office of Graduate Studies) at least eight days in advance. Major Paper/Projects are graded by the committee with letter grades or as Satisfactory or Unsatisfactory.

The Major Paper/Project is not subject to thesis regulations concerning full library binding, copyright application, and microfilming for the National Library, but is deposited in the library and in the departmental office of the program.

The regulations of individual programs should also be consulted for details of their thesis or major paper requirements. Letter grades or Satisfactory/Unsatisfactory may be assigned for theses and major papers, depending on program policy.

Although in some cases it may be acceptable for more than one candidate to make use of a common set of data or research findings, each candidate is responsible for a single-authored thesis/major paper.

The regulations of individual programs should be consulted for details of their procedures. The general format is prescribed in *Guidelines for Major Papers, Theses, and Dissertations*, which may be obtained from the Administrative Officer in the Office of Graduate Studies or from www.uwindsor.ca/grad. Within the thesis, the student should use formats approved for scholarly publication in the field of specialization and approved by the program coordinator. Final checking of the general format of the thesis is the responsibility of the Office of Graduate Studies , but the student should consult the Master's committee for instructions as to the internal form of the thesis.

Copies of the Master's thesis must be provided to all members of the Master's committee and one copy to the chair of the defense, at least two weeks before the expected date of defense. Students are advised to ascertain from the academic unit any prior deadline established by the unit. No changes may be made to the Master's committee between these deadline dates and the defense except under the most extraordinary circumstances and with the approval of the Executive Committee of Graduate Studies . The oral presentation should be completed at least three weeks prior to the Convocation at which the candidate expects to receive the degree.

No later than eight days before a proposed defense a Master's committee shall notify the Office of Graduate Studies that a notice of defense is to be posted. The chair of a Master's defense will be a member of graduate faculty who has not served on the candidate's Master's committee, and who is appointed by the Department Head at the time the defense is publicly announced. The chair is non-voting. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held *in camera*.

The minimum basis for acceptance of a Master's thesis is positive unanimity by the examining committee less one vote. Unless an examining committee is unanimously negative, a candidate may resubmit the thesis once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.

Copies of the corrected thesis must be deposited in the Office of Graduate Studies at least two weeks prior to Convocation.

The title page of the thesis, or a separate page immediately following the title page, must bear the Universal Copyright Convention symbol ©, the full name of the author, and the year the Master's degree was granted. Arrangements for binding the thesis and payment of fees connected with binding and microfilming should be made with the Administrative Officer. The Office of Graduate Studies will transmit a copy of the thesis to the National Library, accompanied by a "Theses Non-Exclusive License", supplied by the Office and validated by the candidate, which authorizes the National Library to produce single copies, in response to a formal request from an individual, a research institute, or a library.

If approved, the physical thesis becomes the property of the University. Two copies will be filed in the Leddy Library, and a third in the academic unit.

Occasionally, it is necessary to withhold the thesis from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis may be held from the public domain, i.e., the Leddy Library and the National Library of Canada. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding a thesis are available from the Office of Graduate Studies .

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MASTER'S THESIS/MAJOR PAPER REQUIREMENTS SYNOPSIS

- 1) Thesis or Major Paper format must be as prescribed by *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the thesis for Master's degree must be provided to all committee members, and one copy to the chair of the defense at least two weeks before the oral presentation prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of the defense must be received in the Office of Graduate Studies at least eight days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit copies of the thesis in the Office of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) The candidate will validate a "Theses Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing the National Library to produce single copies. The title page of the thesis, or separate page following, must bear the Universal Copyright Convention symbol ©, full name of author, and year the Master's degree was granted.
- 6) Copyright application and microproduction by the National Library do not apply for the major paper. Two copies are required to be deposited in the Office of Graduate Studies (one for the Leddy Library, one for the program).
- 7) Fees for the above are to be paid at the time of deposit of the thesis or major paper in the Office of Graduate Studies .

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MASTER'S EXAMINATIONS

In addition to the usual examinations on course work, there are three types of special examinations that may apply in some programs leading to the Master's degree:

1) *Qualifying Examinations*: A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed before the student registers for the final year of Master's work.

2) *Comprehensive Examinations*: The comprehensive examination is one in which the student is asked to demonstrate a reasonable mastery of the field of specialization; it is designed to test the student's command of knowledge and ability to integrate that knowledge, after completion of all or most of the graduate course work. Normally, this examination is written at the end of the student's final year of study for the Master's degree.

3) *Final Examinations*: The final examination of a candidate for a Master's degree is an oral defense of the thesis, major paper, or project.

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FACULTY OF SCIENCE

(Great Lakes Institute for Environmental Research (GLIER))

ENVIRONMENTAL SCIENCE: COURSES

68-550. GLIER Multidisciplinary Graduate Seminar

This course will be team-taught by core GLIER faculty who will be responsible for organizing seminar modules in their area of research expertise. Modules will include external speakers and encompass lectures and discussions utilizing a multidisciplinary approach to environmental research, and its role in developing ecosystem-based management decisions that affect large lakes and their watersheds. Students are expected to participate in discussions, prepare and deliver critiques of seminars, and present a seminar. (Required of all GLIER graduate students.) (2 hours per week for 2 semesters.) (6.0 credit course.)

68-570. Environmental Research Proposal

A course aimed at developing proposal and grant writing skills for the academic environment. Students will prepare an original research proposal based on their research topic and defend it publicly. Students will engage in grant writing exercises, developing skills typical of those required by major funding agencies. Effective oral presentation skills will be developed. (Required of all M.Sc. students.) (2 hours per week.) 3.0 credit course.)

68-680. Multiple Stressors and Environmental Modelling

A course aimed at developing an understanding of the nature of interactive, multiple stressors on large watersheds and lakes. Stressors considered will include chemical contaminants, nutrient enrichment, species invasions, climate change, population harvesting and land use changes. Students will model and gain appreciation for how single and interactive stressors affect large lakes and their watersheds, and how confounding issues can be isolated and explored. Students are expected to prepare and participate in critiques of the published literature, and contribute an original essay that explores these issues. (Required of all GLIER Ph.D. students.) (2 hours per week.) (3.0 credit course.)

68-797. Thesis

68-798. Dissertation

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PhD ADMISSION REQUIREMENTS

Graduates of recognized universities may apply for admission. In general, admission to graduate study is granted only to those students who have good academic records and who are adequately prepared to undertake graduate work in their field of specialization. In particular, an applicant for admission to a graduate program leading to the degree of Doctor of Philosophy must have either a Master's degree or, in exceptional cases, a four-year Bachelor's degree, or the equivalent; with a minimum average of 77% (or equivalent).

Possession of the minimum requirements does not ensure admission.

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PhD PROGRAM REQUIREMENTS

Residence: Residence requirements are intended to provide for each student an adequate contact with the University, with the faculty in the field of specialization, and with the library, laboratories, and other facilities for graduate study and research. Every student in a program leading to the degree of Doctor of Philosophy must be registered in a full-time program of study for a minimum of three calendar years, normally in succession. Credit for one of these years may be given for the time spent in proceeding to a Master's degree.

Credit for no more than one-half of the required courses for a program, taken at another university, may be given at the discretion of the Faculty of Graduate Studies, upon recommendation of the program.

A full-time residence year indicates that a student is in full-time work under the direction of a faculty member at the University of Windsor.

Candidacy: Admission to graduate study does not imply admission to candidacy for a degree. Admission to candidacy for the degree of Doctor of Philosophy is granted by the Dean of Graduate Studies, upon recommendation of the program concerned, when a student has satisfied the requirements for candidacy of the Faculty of Graduate Studies and of the program, as may be specified in program listings in the calendar. Admission to candidacy is normally to be regarded as recognition that a student has given adequate evidence of superior capability and achievement in graduate study. A student may not be admitted to candidacy for the degree of Doctor of Philosophy before passing a comprehensive examination in the field of specialization.

Time Limit: A student admitted to a Ph.D. program must complete all requirements for the Ph.D. within six consecutive years.

If an extension of the time limit becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.

Course of Study: Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program coordinator or a designated departmental advisor. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program.

Since in several programs only a few courses listed will be offered each year, students are advised to ascertain from the program area which courses will be offered in any given year.

In consultation with their program area, all students must complete an Annual Report, which is to be submitted to their department by May 31 of each year.

It is expected that students working toward the degree of Doctor of Philosophy will maintain a superior average in all course work. Normally, graduate credit will be given only for courses in which a minimum 70% grade has been achieved. [See also Senate Policy on Grading and Calculation of Averages.](#)

Committees: Research undertaken as part of a doctoral program is normally directed by a faculty supervisor and advised by a doctoral committee.

By the end of the first term of registration in the dissertation, the program will recommend the appointment of members of the doctoral committee, whose appointments must be approved by the Faculty of Graduate Studies. At the same time the candidate will be required to validate the *Non-Exclusive License to the University of Windsor* authorizing the University to archive, reproduce, and distribute the dissertation.

The doctoral committee will consist of a research advisor from the program, who is a member of graduate faculty, two other faculty members in the program, and one from another program area at the University of Windsor. Additional members may be added with the approval of the program and the Faculty of Graduate Studies. This committee will, from time to time, review the student's progress.

The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status.

The doctoral committee is also charged with conduct of the final examination of the doctoral candidate (see below).

For the defense of the dissertation (final oral examination), the committee will be supplemented by an independent, external examiner who, as an expert in the field in which the candidate's research is carried out, will appraise the dissertation and ordinarily will also be present at the final oral examination.

The external examiner will be recommended by the doctoral committee, subject to the approval of the program area and the Dean of Graduate Studies. The external examiner must not be involved in the preparation of the dissertation before it is submitted to him or her for final evaluation.

If the research involves information gathered from or about human participants (including primary data collection, use of

human biological materials, and secondary uses of information), the faculty supervisor and graduate student are responsible for the ethical conduct of the study, the completion of the project as described in the ethics application cleared by the Research Ethics Board (REB) and the protection of the rights and welfare of human participants. The supervisor ensures that all required clearances and permissions are obtained prior to commencement of the research. The graduate student and faculty supervisor submit an application to the Research Ethics Board REB Research involving human subjects cannot begin until ethics clearance has been obtained. (Consult with th REB .)

All research conducted at the University of Windsor is subject to the institutional policies as described in *Research Integrity and the Responsible Conduct of Research* and *University of Windsor Guidelines for Research Involving Human Research Participants*. If the research involves animal care, biohazards, health and safety, radiation, or any other procedure that requires certification, the supervisor of the research is responsible for obtaining prior approval from the respective committees. (Consult with the Office of Research and Innovation Services)

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PhD DISSERTATION

A dissertation embodying the results of an original investigation in the field of specialization is required of all candidates for the degree of Doctor of Philosophy.

The regulations of individual programs should be consulted for details of their dissertation procedures. The general format is prescribed in the *Guidelines for Major Papers, Theses, and Dissertations*, which may be obtained from the Faculty of Graduate Studies or from www.uwindsor.ca/graduate. Within the dissertation, the student should use formats approved for scholarly publication in the field of specialization and approved by the program. Final checking of the general format of the dissertation is the responsibility of the Faculty of Graduate Studies, but the student should consult the doctoral committee for instructions as to the internal form of the dissertation.

Copies of a Ph.D. dissertation are to be provided to all members of the doctoral committee and two copies to the Faculty of Graduate Studies, of which one copy will be transmitted to the external examiner, at least four weeks before the expected date of defense. Before the dissertation is forwarded to the external examiner, all members of the doctoral committee must read and provide feedback on the dissertation, and it must be approved by the majority of the committee. No changes may be made to the dissertation document or composition of the doctoral committee between these deadline dates and the defense except under the most extraordinary circumstances and with approval of the Executive Committee of Graduate Studies. The oral presentation should be completed at least three weeks prior to the Convocation for which the candidate has applied to receive the degree. A public notice of defense must be received in the Office of Graduate Studies and posted in the academic unit at least eight days in advance of the oral presentation.

A doctoral committee shall notify the Faculty of Graduate Studies whether, in its view, notice of defense is to be posted, but the decision to proceed shall be contingent upon the report of the external examiner to the Dean of Graduate Studies.

The candidate will present the dissertation at a public defense. The Chair of a Ph.D. defense will be the Dean of Graduate Studies or designate, such as the Associate Dean of Graduate Studies, Dean of a Faculty or senior member of graduate faculty from outside the program, to be named by the Dean of Graduate Studies at the time the defense is publicly announced. The chair is non-voting. Questions will be permitted from the general audience at the discretion of the chair. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held in camera.

The minimum basis for acceptance of a Ph.D. dissertation shall be positive unanimity less one vote providing the dissenting vote is not by an external examiner who is present at the defense, and the chair of the defense determines that the examination by the external examiner has been fair to the candidate. Unless an examining committee is unanimously negative, a candidate may resubmit the dissertation once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.

The dissertation must be deposited with the Faculty of Graduate Studies at least two weeks prior to Convocation.

Arrangements for the deposit, including online electronic submission, binding the dissertation and payment of binding fees, where applicable, should be made with Graduate Studies. The University will add the dissertation to the "Scholarship at UWindsor" online institutional repository and transmit a copy of the dissertation to Library and Archives Canada, under the authority of a "Thesis/Dissertation Non-Exclusive License", supplied by the Faculty of Graduate Studies and validated by the candidate. The license authorizes Library and Archives Canada and Leddy Library to publish, reproduce, and transform the dissertation in any format, print or online.

The deposited dissertation becomes the property of the University.

Occasionally, it is necessary to withhold the dissertation from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis may be held from the public domain, i.e., the online repository, the Leddy Library and Library and Archives of Canada. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding dissertation are available from the Faculty of Graduate Studies.

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PHD DISSERTATION REQUIREMENTS SYNOPSIS

- 1) Dissertation format must be as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the dissertation must be provided to all committee members and two copies to the Faculty of Graduate Studies at least four weeks before the oral defense, which must occur at least three weeks prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of defense must be received in the Faculty of Graduate Studies and posted in the academic unit at least eight (8) days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit the dissertation in the Faculty of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) The candidate will validate a "Thesis/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing Library and Archives Canada to publish and reproduce the dissertation.

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PhD EXAMINATIONS

In addition to the usual examinations on course work, there are three types of special examinations which that may be required (see individual program regulations) in the program leading to the degree of Doctor of Philosophy:

1) *Qualifying Examinations*: A qualifying examination is one in which the student is asked to demonstrate a reasonable mastery of the fundamentals in the major subject; it is designed to test the student's preparation for advanced graduate work. If such an examination is required, it must be administered and passed within one year after a student enters a graduate program.

2) *Comprehensive Examinations*: A comprehensive examination is one in which the student is asked to demonstrate a reasonable mastery of the field of specialization; it is designed to test the student's command of knowledge and ability to integrate that knowledge, after completion of all or most of the graduate course work. Normally, these examinations are completed by the end of the second year of graduate study and are a prerequisite to admission to candidacy.

3) *Final Examinations*: The final examination of a doctoral candidate is an oral defense of the dissertation.

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MASTER'S ADMISSION REQUIREMENTS

Graduates of recognized universities may be admitted to programs leading to the Master's degree. A student with a four-year degree or equivalent in the discipline to which s/he is seeking admission, and who has an academic standing equivalent to 70% or better in the final two years of study (full time equivalent) may be admitted to a Master's program (M2).

An applicant who holds a four-year degree in a related discipline, and who has an academic standing equivalent to a 70% or better overall and in the final year of study and the major subject, may also be admitted to a Master's program as a transitional student. Transitional students are normally required to complete a program of no more than five specified undergraduate courses in addition to the graduate courses required of regular students. Upon completion of these extra courses, with a minimum grade as specified by the program, the student may continue in the Master's program as a regular student (M2).

An applicant who does not meet minimum departmental program admission requirements, but who can present evidence of leadership, and/or substantial related work experience, may be considered for probationary admission upon the recommendation of the program. Students who are accepted on probation will be required to satisfactorily complete two specified graduate courses in the first term of registration, in addition to any other admission requirements, before conditions are waived. Graduate credit will be given for the graduate courses after the conditions are waived. The final decision on probationary admission rests with the Faculty of Graduate Studies.

An applicant who holds a three-year degree in the discipline to which s/he is applying, or a four-year degree in another discipline, and who has an academic standing equivalent to 70% or better overall and in both the final year of study and major subject may be admitted as a qualifying student, with a recommendation for advancement to M2 level contingent upon completion of a prescribed set of qualifying courses, with a minimum grade as specified by the program. Since qualifying students are not candidates for a degree, a qualifying student is not considered a graduate student (M1).

Applicants are urged to apply as early as possible to enable the program and the Faculty of Graduate Studies to evaluate qualifications.

Possession of the minimum requirements does not ensure admission.

Candidacy: A student in an M2 program is also a candidate for the Master's degree. Students in the two-year M1 program followed by the M2 program are not admitted to candidacy until they have satisfactorily completed the M1 program. A positive recommendation from a program and approval of that recommendation are required for a student to proceed to the M2 program.

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It is expected, therefore, that every full-time student in a program leading to the Master's degree will undertake a full program of study at the M2 level for a minimum of one calendar year or its equivalent. Application and interpretation of the residence requirement is the responsibility of the Dean of Graduate Studies. If a student does not expect to fulfill the residence requirement in the normal way, reasons for departing from the norm should be submitted in writing to the Dean and approval secured for the plan before beginning the graduate program. See also the section on "Duration of Study" below.</p> <p>The residency requirement is not intended to apply to students admitted to graduate programs on a part-time basis.</p> <p><i>Duration of Study:</i> The minimum duration of study for the Master's degree is one calendar year beyond the honours Bachelor's degree, or its equivalent. Credit for no more than one-half of the required courses for the program taken at another university may be given at the discretion of the Dean of Graduate Studies, upon the recommendation of the program. Residency still applies.</p> <p><i>Time Limit:</i> Work on a Master's degree must be completed within three consecutive calendar years after the student's first registration, except for certain Master's programs available on a part-time basis. In these latter programs, the time limit will depend on the nature of the program, but will not normally exceed five consecutive years.</p> <p>If an extension of these time limits becomes necessary, the student should address a petition to the Dean of Graduate Studies giving reasons for the request and plans for the completion of the work. A student who exceeds the time limit may be required to take additional qualifying examinations or additional course work, or both.</p> <p><i>Course of Study:</i> Course requirements are specified in the program listings. Planning and direction of the student's course of study are the responsibility of the program area. A specific program of study should be worked out at the time of the student's first registration, in consultation with the program area. Students are directed to obtain the approval of the program area for changes in the program of study. Training in methodology may be required, at the discretion of the program.</p> <p>In consultation with their program, all students must complete an Annual Report which is to be submitted to their program by May 31 of each year.</p> <p>Students working toward the Master's degree must maintain at least a 70% average in all course work. A candidate for the Master's degree who does not obtain graduate credit in any course may repeat the course once only, and not more than one course may be repeated. Normally, graduate credit will be given only for courses with a minimum grade of 70%. See also Senate Policy on Grading and Calculation of Averages.</p> <p><i>Committees:</i> Research undertaken as part of a Master's program is normally directed by a faculty supervisor and advised by a Master's committee. By the end of the first term of registration in the thesis, the program will recommend the appointment of members of the Master's committee, whose appointments must be approved by the Faculty of Graduate Studies. At the same time the candidate will be required to validate the <i>Non-Exclusive License to the University of Windsor</i> authorizing the University to archive, reproduce, and distribute the thesis.</p> <p>The Master's thesis committee will include as a minimum an advisor from the program, who is a member of graduate faculty, and two other University of Windsor faculty members, one of whom shall belong to a program other than the one in which the student is obtaining the degree. Additional members may be added with the approval of the program and the Faculty of Graduate Studies.</p> <p>The majority of the members of an advisory committee must have graduate faculty status and the supervisor must have graduate faculty status. In the case of co-supervision one of the co-supervisors must have graduate faculty status, see Senate Policy on Graduate Faculty Designation.</p> <p>The Master's committee is also charged with conduct of the final examination of the Master's candidate (see below).</p> <p>If the research involves information gathered from or about human participants (including primary data collection, use of human biological materials, and secondary uses of information), the faculty supervisor and graduate student are responsible for the ethical conduct of the study, the completion of the project as described in the ethics application cleared by the Research Ethics Board (REB) and the protection of the rights and welfare of human participants. The supervisor ensures that all required clearances and permissions are obtained prior to commencement of the research. The graduate student and faculty supervisor submits an application to the REB. Research involving human subjects, cannot begin until ethics clearance has been obtained. (Consult with REB.)</p> <p>All research conducted at the University of Windsor is subject to the institutional policies as described in <i>Research Integrity and the Responsible Conduct of Research</i> and <i>University of Windsor Guidelines for Research Involving Human Research Participants</i>. If the research involves animal care, biohazards, health and safety, radiation, or any other procedure that requires certification, the supervisor of the research is responsible for obtaining prior approval from the respective committees. (Consult with the Office of Research and Innovation Services)</p>
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Programs	MASTER'S THESIS OR MAJOR PAPER
Programs (Listed Alphabetically)	A thesis incorporating the results of an investigation in the field of the major subject may be required of candidates for the Master's degree.
Programs (Listed by Department)	Candidates for some Master's programs may choose, instead of the course of study including a thesis, a program requiring additional course work and/or the submission of a major paper or project on which there will be a final evaluation.
Programs (Listed by Faculty)	The Major Paper/Project is a scholarly essay/research project that shows evidence of critical analysis and understanding on a topic approved by the student's supervisor and acknowledged by the program area.
Graduate Diploma Programs	The Major Paper/Project committee will include a supervisor, who is a member of graduate faculty, and one other program faculty member. Additional members may be added with the approval of the program area.
Courses	Upon completion of the Major Paper/Project each student will deliver a public oral presentation and defense which shall be announced publicly (with a copy sent to the Faculty of Graduate Studies) at least eight days in advance.
Alphabetical by Department	The Major Paper/Project is deposited in the Faculty of Graduate Studies at least two weeks prior to Convocation.
Admission Information	The regulations of individual programs should also be consulted for details of their thesis or major paper/project requirements. Numerical grades or Satisfactory/Unsatisfactory may be assigned for theses and major papers/projects, depending on program policy.
Application Information	Although in some cases it may be acceptable for more than one candidate to make use of a common set of data or research findings, each candidate is responsible for a single-authored thesis/major paper.
Awards and Financial Aid	The regulations of individual programs should be consulted for details of their procedures. The general format is prescribed in <i>Guidelines for Major Papers, Theses, and Dissertations</i> , which may be obtained from the Faculty of Graduate Studies or from www.uwindsor.ca/graduate . Within the thesis or major paper/project, the student should use formats approved for scholarly publication in the field of specialization and approved by the program. Final checking of the general format of the thesis or major paper/project is the responsibility of the Faculty of Graduate Studies, but the student should consult the Master's committee for instructions as to the internal form of the document.
Registration	Copies of the Master's thesis must be provided to all members of the Master's committee and one copy to the chair of the defense, at least two weeks before the expected date of defense. Students are advised to ascertain from the academic unit any prior deadline established by the unit. No changes may be made to the thesis or the Master's committee between these deadline dates and the defense except under the most extraordinary circumstances and with the approval of the Faculty of Graduate Studies. The oral presentation should be completed at least three weeks prior to the Convocation at which the candidate expects to receive the degree.
Academic Regulations	No later than eight days before a proposed defense a Master's committee shall notify the Office of Graduate Studies that a notice of defense is to be posted. The chair of a Master's defense will be a member of graduate faculty who has not served on the candidate's Master's committee, and who is appointed by the Department Head at the time the defense is publicly announced. The chair is non-voting. The general audience may remain until the defense is completed and the committee begins its deliberations on the outcome. These deliberations are held <i>in camera</i> .
Faculty Regulations	The minimum basis for acceptance of a Master's thesis is positive unanimity by the examining committee less one vote. Unless an examining committee is unanimously negative, a candidate may resubmit the thesis once, after a minimum period of three months and before a maximum period of twelve months. The second decision shall be final.
Additional Degrees	The thesis must be deposited in the Faculty of Graduate Studies at least two weeks prior to Convocation.
Exam and Grading Procedures	Arrangements for the deposit, including online electronic submission, binding the dissertation and payment of binding fees, where applicable, should be made with Graduate Studies. The University will add the dissertation to the "Scholarship at UWindsor" online institutional repository and transmit a copy of the dissertation to Library and Archives Canada, under the authority of a "Thesis/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies and validated by the candidate. The license, authorizes Library and Archives Canada and Leddy Library to publish, reproduce, and transform the dissertation in any format, print or online.
Authorship and Plagiarism	The deposited thesis becomes the property of the University.
Graduation	Occasionally, it is necessary to withhold the thesis or major paper/project from public circulation, especially where the student's interests (e.g., patent rights) would be jeopardized by publication. In such cases, a thesis or major paper/project may be held from the public domain, i.e., the online repository, the Leddy Library and Library and Archives Canada, where applicable. Such delay in circulation may be requested for six months without cause being given, and an additional period of six months with good cause. Forms for withholding a thesis or major paper/project are available from the Faculty of Graduate Studies.
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MASTER'S THESIS/MAJOR PAPER REQUIREMENTS SYNOPSIS

- 1) Thesis or Major Paper format must be as prescribed by *Guidelines for Major Papers, Theses, and Dissertations*.
- 2) Copies of the thesis for Master's degree must be provided to all committee members, and one copy to the chair of the defense at least two weeks before the oral presentation prior to the Convocation at which the candidate has applied to receive the degree.
- 3) Public notice of the defense must be received in the Office of Graduate Studies at least eight days in advance of the defense date.
- 4) Following successful defense, the candidate will deposit the thesis/major paper in the Office of Graduate Studies, as prescribed in *Guidelines for Major Papers, Theses, and Dissertations*.
- 5) Thesis only. The candidate will validate a "Thesies/Dissertation Non-Exclusive License", supplied by the Office of Graduate Studies, authorizing distribution to Library and Archives Canada.

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MASTER'S EXAMINATIONS

In addition to the usual examinations on course work, the final examination of a candidate for a Master's degree is an oral defense of the thesis, major paper, or project.