



**Faculty of
Graduate Studies**

Graduate Diplomas in Ontario

A guide to Diploma Programming
at Ontario Universities

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Graduate Diplomas in Ontario

In response to questions from a number of Brock's graduate programs, the Faculty of Graduate Studies has undertaken research on Ontario University Graduate Diploma programs.

Graduate Diplomas are increasing in number at Canadian Universities for a variety of reasons. Some students may wish to pursue a shorter program at the graduate level that responds to their special interests, rather than undertaking a full master's degree. Others may want to add workplace credentials, building upon previous academic achievements and expertise, but without entailing the length of time or expense of a full master's program. Still others may wish to pursue a diploma in conjunction with graduate study in a regular master's program, in order to combine fields of study in innovative ways.

Quite apart from their benefit for various kinds of students and the communities that need such training opportunities for their employees or other stakeholders, all graduate diploma programs can be "revenue positive" to the Faculties mounting them. Those for which the government will not provide funding can be developed as "cost recovery" programs - wherein tuition is charged per course, and the income from tuition will cover costs and perhaps generate additional income to reinvest in graduate studies within the Faculty more generally. Other programs may be created that do in fact receive government funding (which is to say government grant, as with other funded graduate programs), if the Ministry assesses them in this way. Some may have elements of both, although this is more rare.

This guide was created to demonstrate the variety of Graduate Diploma programs that are currently being offered in Ontario Universities. The information for this project was collected in February 2011, drawing upon the graduate studies websites of each University.

The booklet is organized alphabetically by university. For your convenience, an appendix has been created that lists the programs as they align with Brock's six Academic Faculties. In this way, it is possible for each Faculty to reference programs that exist elsewhere and may serve as a model for the design and delivery of graduate diplomas in our own areas.

A second appendix lists the kinds of Graduate Diplomas that are authorized under the Quality Assurance Framework that governs the work of the Ontario Universities Council on Quality Assurance.

The guide was produced by Meghan Junke, Special Projects Assistant, Office of the Dean of Graduate Studies. For further information, please contact Dean Marilyn Rose (mrose@brocku.ca).

We hope that you find this booklet useful in the future development and design of Graduate Diploma programs.

Brock University

Faculty of Social Sciences: *Graduate Diploma in Applied Disability Studies*

- Overview: for individuals who wish to upgrade their graduate education without completing a master's degree; specialized program in the field of Applied Behaviour Analysis (ABA); courses are recognized by the Behaviour Analyst Certification Board (BACB); diploma typically offered part time.
- Admission criteria: honour's degree in a related field (e.g. psychology, sociology, social work, education); undergraduate courses related to disability studies and ABA; minimum 75 per cent overall average; relevant work, volunteer or educational experience.
- Diploma completion requirements: three required courses and two elective credits; designed to be completed in three years of part-time study.

Carleton University

Department of Law: *Graduate Certificate in Conflict Resolution*

- Overview: specialized interdisciplinary program for working professionals who have interest in conflict intervention and mediation; five-course program; courses taken on weekends and weekdays over summer; students have up to four years to complete diploma.
- Admission criteria: honour's degree and experience in conflict management; consideration is given to professional experience and relevant training.
- Certificate completion requirements: three core courses and two electives; grade of B- must be obtained in a core theory course and three of the four other courses; upon completion of courses students must pass a half-credit skills assessment involving a mediation exercise; skills assessment must be taken within one year after completion of courses.

School of Public Policy and Administration: *Graduate Diploma in Public Policy and Program Evaluation*

- Overview: concentrated multidisciplinary approach to the method and management of evaluation; for graduates seeking professional designation; 3.0-credit program; can be completed in two years while working full time; part-time study option.
- Admission criteria: bachelor's degree (or equivalent) with an average of B+ or higher; applicants who do not have undergraduate degrees, but have relevant professional experience may apply.
- Diploma completion requirements: 2.0 credits in required courses and 1.0 credit in elective courses; courses worth 0.5 credits each.

School of Public Policy and Administration: *Graduate Diploma in Public Management*

- Overview: for public servants and professionals wanting to broaden knowledge and skills; 3.0-credit program; designed to be taken over two years while working full time; part-time study option.
- Admission criteria: bachelor's degree (or equivalent) with an average of B+ or higher; relevant professional experience in the public sector may be considered as equivalent to a degree.
- Diploma completion requirements: 0.5 credit in a required course and 2.5 credits in elective courses; courses are worth 0.5 credits each.

Carleton University

School of Public Policy and Administration: *Graduate Diploma in Sustainable Development*

- Overview: for public servants and professionals wanting to broaden knowledge and skills; 3.0-credit program; designed to be taken over two years while working full time; part-time study option.
- Admission criteria: bachelor's degree (or equivalent) with an average of B+ or higher; relevant professional experience in the public sector may be considered as equivalent to a degree.
- Diploma completion requirements: 0.5 credit in a required course and 2.5 credits in elective courses; minimum passing grade of B- in each course.

School of Public Policy and Administration: *Graduate Diploma in Health Policy*

- Overview: for public servants and professionals wanting to broaden knowledge and skills; 3.0-credit program; designed to be taken over two years while working full time; part-time study option.
- Admission criteria: bachelor's degree (or equivalent) with an average of B+ or higher; relevant professional experience in the public sector may be considered as equivalent to a degree.
- Diploma completion requirements: 1.0 credit in a required course, 1.5 credits in elective courses and 0.5 credit in a Public Policy and Administration course that has been approved by the course supervisor.

Laurentian University

Faculty of Science and Engineering: *Graduate Diploma in Science Communication*

- Overview: intensive development course; for professionals in the field of science who wish to enhance expertise; partnership between Laurentian University and Science North¹; 10 courses taught at both locations over one year; year is divided into four modules.
- Admission criteria: honour's degree in science, engineering or technology; graduates of other university programs who have a demonstrated ability to understand scientific knowledge and assess scientific issues.
- Diploma completion requirements: 30-credit program; six required courses worth 3.0 credits each; two intensive internships worth 3.0 credits each; one research project worth 6.0 credits.

¹ Science North is an interactive science museum located in Sudbury; an agency of the Government of Ontario.

McMaster University

School of Geography and Earth Sciences: *Graduate Diploma in Spatial Analysis and Geographical Information Systems (GIS)*

- Overview: suitable for graduates with a degree in Geography or Earth & Environment Sciences who wish to enhance their skills in GIS technology but do not want to complete a master's degree; full-time or part-time study.
- Admission criteria: bachelor's degree in Geography, Science, Earth & Environmental Sciences or a related discipline; completion of course in GIS, spatial statistics or a combination of the two; work experience is given additional consideration.
- Diploma completion requirements: four half-credit courses with a minimum passing grade of B-; diploma must be completed within three-years.

Faculty of Health Sciences School of Nursing: *Graduate Diploma in Advanced Neonatal Nursing*

- Overview: advanced specialty program designed to prepare neonatal nurse practitioners; utilizes resources of the McMaster Children's Hospital Neonatal ICU; available as extension of MSc degree in Nursing; available to individuals possessing a completed master's degree with a clinical nursing component; full-time and part-time study.
- Admission criteria: completed or currently enrolled in a master's degree with a clinical nursing specialty; B+ standing; evidence of eligibility to be registered or licensed in her/his own province/country; minimum of two years experience in neonatal clinical care.
- Diploma completion requirements: three required courses with a minimum grade of B-; must complete Pre-Clinical Communicable Disease Screening through Student Health Services.

DeGroot School of Business: *Graduate Diploma in the Management of Innovation and New Technology*

- Overview: for accomplished business students and professionals; courses are taken in classes with advanced level MBA students; full-time or part-time study; full-time students take four courses in one semester; part-time students may take up to two years to complete diploma.
- Admission criteria: have completed a course of study that is the equivalent to Year 1 of the DeGroot School of Business MBA; must be proficient in English.
- Diploma completion requirements: one required course and three elective courses; a grade point average of 5.0 (B); complete diploma within two-years.

McMaster University

Faculty of Health Sciences School of Nursing: *Graduate Diploma and Primary Health Care Nurse Practitioner (PHCNP) Certificate*

- Overview: for registered nurses (RN) seeking to advance education, skills and Extended Class designation (EC)² from the Ontario College of Nurses; seven course program; full-time or part-time study; courses are taken online through distance education; labs and tutorials are held on campus.
- Admission criteria: bachelor's degree in nursing with a B+ overall average or a completed master's degree in nursing; RN Certificate of Competence; two years of direct nursing experience within the last five years.
- Diploma completion requirements: completion of all required courses and scholarly paper within three-four years; students may write the Extended Class exams upon graduation.

Department of Engineering Physics: *Graduate Diploma in Nuclear Technology*

- Overview: introduction to the science fundamentals and engineering advancements in nuclear technology; opportunity to study in-depth topics that speak to a student's interest; four courses; full-time or part-time study.
- Admission criteria: bachelor's degree in the fields of engineering, science or mathematics; must have grade-point average similar to one needed for entry into a master's degree program; consideration is given to related work experience.
- Diploma completion requirements: completion of four courses worth 0.5 credits each; minimum passing grade of B- in each course; must complete diploma within three years.

Faculty of Humanities: *Graduate Diploma (PhD) in Gender Studies and Feminist Research*

- Overview: combines disciplinary research with interdisciplinary scholarship; open to students admitted to the PhD programs in English and Cultural Studies, History, Philosophy, Religious Studies, and Social Work at McMaster.
- Admission criteria: master's degree; sufficient background (at the undergraduate or master's level) in women's, gender or feminist studies; previous graduate work must be the equivalent to at least a B+; applications will be reviewed once the student has been admitted to a home department, prior to starting a doctoral degree.
- Diploma completion requirements: one compulsory course worth 3.0 credits; one elective worth 3.0 credits; regular participation in program's Research Symposium; oral presentation on the student's research; doctoral thesis on a topic related to Gender/ Feminist studies.

² EC designation allows registered nurses to perform additional controlled acts e.g. diagnosing of common diseases, prescribing and administration of medications, ordering basic diagnostic tests.

The Ontario College of Art and Design (OCAD)

Digital Futures Initiative (DFI) at OCAD: *Graduate Diploma in Digital Futures**

- Overview: for working professionals in fields such as IT, media and communications, entertainment and the cultural industries; suitable for individuals who wish to improve their skills and knowledge; partnership with the Canadian Film Centre (CFC)³ Media Lab; two-year course spread over Fall, Winter and Summer semesters (six semesters total); part-time study with evening courses; 24 credit program.
- Admission criteria: must have a BA, BFA, BDes, BCom, BSc, BEng or comparable honour's degree with at least a GPA of 75 per cent (B+) during the last two years of study, or must demonstrate exceptional experience and expertise as a professional in a relevant discipline; applicants must demonstrate creative and conceptual competence at a high level; must submit samples of work produced in the last five years.
- Diploma completion requirements: pass all required courses as well as digital course projects; four courses worth 3.0 credits each and two courses worth 6.0 credits each.

*Pending approval from the Ontario Council on Graduate Studies, February 1, 2011

³ The Canadian Film Centre is a leading institution for advanced training in film, television and new media; founded by Norman Jewison; a partner in the growth and progression of Canada's entertainment industry.

Queen's University

Queen's School of Business: *Graduate Diploma in Accounting*

- Overview: deepen knowledge of accounting; a course to take in preparation for Chartered Accountant (CA) exams; all courses meet CA certification requirements; 12-week program; four courses; generally, students study full time, however courses may be taken individually.
- Admission criteria: bachelor's or honour's degree in business with an emphasis in accounting; completion of university-level Canadian Taxation, Auditing, and two Financial Accounting courses.
- Diploma completion requirements: must complete all four courses: Business Combinations Accounting; Income Tax Practice: Corporate and Individual; Information Systems Control, Management and Audit; Audit Effectiveness: An Evidential Approach.

The University of Guelph

Department of Food Science: *Graduate Diploma in Food Safety and Quality Assurance*

- Overview: graduate level study of theory and research for students not wishing to pursue a full graduate degree; suitable for those currently employed or seeking employment in the food industry and associated service and government sectors; focus of program is the scientific and management fundamentals of Food Safety and Quality Assurance.
- Admission criteria: honour's degree with a B- average in the last two years of study; completed undergraduate courses in microbiology, toxicology, statistics and chemistry.
- Diploma completion requirements: five required courses worth 0.5 credits each.

Department of Mathematics and Statistics: *Graduate Diploma in Applied Statistics*

- Overview: intended for individuals wanting to upgrade existing skills or develop a more substantial knowledge of statistics; 2.0-credit program; full-time or part-time study; courses taken online and on-campus; maximum of one year to complete diploma.
- Admission criteria: honour's degree with at least 1.0 credit in mathematics and 1.5 credits in statistics; B- in the last two years of study; requirements may be waived with substantive work experience.
- Diploma completion requirements: four courses worth 0.5 credits each; includes research project and one 0.5 elective credit; 70 per cent weighted average needed to graduate.

School of Engineering: *Graduate Diploma in Modeling Applications in Water Resource Engineering*

- Overview: further education in water resources without completing a full graduate degree; course material draws from the existing specializations in the current water resources engineering program; 2.0-credit program; full-time or part-time study.
- Admission criteria: honour's degree with satisfactory preparation in mathematics and physics; minimum average grade of B- for the last two years of full-time study.
- Diploma completion requirements: 1.5 credits in required courses (students choose from a list of 10) and 0.5 credit in a required special topics course.

The University of Guelph

School of Engineering: *Graduate Diploma in Engineering Design of Sustainable Water Resource Systems*

- Overview: further education in water resources without completing a full graduate degree; course material draws from the existing specializations in the current water resources engineering program; 2.0-credit program; full-time or part-time study.
- Admission criteria: honour's degree with satisfactory preparation in mathematical and physics; minimum average grade of B- for the last two years of full-time study.
- Diploma completion requirements: 1.5 credits in required courses (students choose from a list of 10) and 0.5 credit in a required special topics course.

College of Management and Economics: *Graduate Diploma in Market Research*

- Overview: extend knowledge of market research without undertaking a thesis-based degree; develop expertise in marketing and consumption behaviour; increase skills in research and analytical techniques; five courses taken over one year.
- Admission criteria: honour's degree; B average in final two years of undergraduate program; background in consumer studies, social sciences, humanities, marketing, finance or real estate; acceptable GRE or GMAT scores; professional experience in a business or management role will be considered.
- Diploma completion requirements: five courses worth 0.5 credits each; must attend a pass/fail weekly seminar during both semesters.

Department of Computing and Information Science: *Graduate Diploma in Bioinformatics*

- Overview: designed to give interdisciplinary skills needed to enhance knowledge and real-world experience; two-semester program with mini project; program typically takes eight months of full-time study.
- Admission criteria: honour's degree with 70 per cent average during final two years of full-time study; must have taken at least one course in three or more of the following areas: statistics, computer programming, biology or mathematics.
- Diploma completion requirements: three required courses and one additional course worth 0.5 credits each (2.0 credits total); average of 70 per cent or higher must be achieved in each course to graduate.

The University of Guelph

Ontario Veterinary College at the University of Guelph: *Graduate Diploma in Pathobiology*

- Overview: provides advanced practical training in veterinary pathology to working veterinarians; three semesters of full-time study; program includes a graduate seminar course.
- Admission criteria: Doctor of Veterinary Medicine (DVM) or relevant biomedical undergraduate degree with high academic standing; must identify a faculty advisor and potential sources of funds for research prior to enrolment.
- Diploma completion requirements: 1.5 credits in applied pathology courses and 0.5 credits in elective courses; must pass a final oral comprehension examination on general knowledge in the field of study; students are required to write a paper that the faculty advisor considers ready for submission to a peer-reviewed scientific journal.

Ontario Veterinary College at the University of Guelph: *Graduate Diploma in Clinical Studies*

- Overview: provides postgraduate training for veterinarians who wish to upgrade their expertise and skills but have limited time for graduate study; full-time three semester program; formal graduate courses and participation in the care of animals administered to the Veterinary Teaching Hospital.
- Admission criteria: DVM with at least a B- standing during the final two years of study; candidates are accepted based on adequate background preparation and availability of a faculty advisor in the area of interest.
- Diploma completion requirements: students are required to write a manuscript that the faculty advisor considers ready for submission to a peer-reviewed scientific journal.

The University of Ontario Institute of Technology (UOIT)

Faculty of Education: *Graduate Diploma in Education and Digital Technologies*

- Overview: professional development opportunity for current educators who do not wish to complete a full master's degree; focuses on the issues around digital technology and learning; courses completed online; some assignments may require students to be on campus; program is four to eight months of full-time study; part-time study is an alternative option; 12-credit program.
- Admission criteria: honour's degree and a Bachelor of Education; minimum B average in the last two years of full-time study.
- Diploma completion requirements: four courses worth a total of 3.0 credits each; minimum grade of B- in each course; diploma must be completed within three years.

Faculty of Energy Systems and Nuclear Science: *Graduate Diplomas in Nuclear Technology*

- Overview: six graduate diplomas based on areas of sub-specialization; programs designed to assist working individuals upgrade knowledge and skills; graduate diplomas in Nuclear Technology are: Fuel, Materials and Chemistry; Health Physics; Operation and Maintenance; Radiological Applications; Reactor Systems; and Safety, Licensing and Regulatory Affairs.
- Admission criteria: bachelor's degree in the field of engineering, science or mathematics; B-GPA; consideration will be given to relevant education, training and experience.
- Diploma completion requirements: must complete four specialized courses within three years; courses must be relevant to one of the six areas of specialization; minimum grade of B- in each course.

The University of Ottawa

Faculty of Health Sciences: *Graduate Certificate in Auditory-Verbal Studies*

- Overview:

The program seeks to provide in-depth training beyond what is currently offered through programs in Audiology, Speech-Language Pathology, and Education of Hearing-Impaired Children.

Graduates of the program will acquire a good foundation in the development of spoken communication in children with hearing impairment, and will learn the specialized skills and therapeutic/teaching strategies applied in auditory-verbal practice in clinical, community or school environments.

Teaching and practicum placements will focus on the development of listening and spoken communication from childhood to adolescence.

The graduate certificate operates within the framework of the master's program in Audiology and Speech-Language Pathology and both are governed by the "General regulations" of the Faculty of Graduate and Postdoctoral Studies (FGPS), which are posted on the website.

The certificate can be pursued either full- or part-time. The courses are offered in English and in French; the clinical placements may be in either language or in both. In accordance with the University of Ottawa regulation, assignments, examinations, research papers and theses can be produced in either English or French.

- Admission criteria:

Applicants must have a master's degree in Audiology, in Speech-Language Pathology, in Education of children with hearing impairment, or a diploma in the Education of children with hearing impairment.

It is essential to have completed at least one university course in acoustics and speech perception and another course on basic concepts in audiology. Students requiring these courses may be able to take them as co-requisites upon admission to the program.

The minimum average for admission is 70% (B), calculated in accordance with FGPS guidelines.

All applicants must be able to understand speak and write proficiently either English or French. Applicants whose first language is neither English nor French must provide proof of proficiency in one or the other. The list of acceptable tests is indicated in the "Admission" section of the General Regulations of the FGPS.

Given that the scientific literature in the field is mainly published in English, it is necessary to have at least a passive knowledge of English.

- Certificate completion requirements:

The graduate certificate in Auditory-Verbal Studies program requires 15 credits, of which 9 are compulsory courses and 6 are practicum placements. If, prior to being admitted, a student has successfully completed one of the certificate courses at the University of Ottawa with "special student" or "out-of-program" status, that course will be recognized in the graduate certificate.

The passing grade in all courses is 65% (C+). Students who fail two courses (equivalent to 6 credits) or the same course twice are required to withdraw from the program.

The requirements of the certificate are usually fulfilled within three years of initial registration to the program.

Compulsory courses (9 credits):

AVB 6100 FUNDAMENTAL CONCEPTS IN AUDITORY-VERBAL STUDIES (3cr.)

AVB 6105 AUDITORY-VERBAL TECHNIQUES AND PROCEDURES I (3cr.)

AVB 6110 AUDITORY-VERBAL TECHNIQUES AND PROCEDURES II (3cr.)

Compulsory practica (6 credits):

AVB 6900 PRACTICUM I (3cr.)

AVB 6905 PRACTICUM II (3cr.)

The University of Ottawa

Faculty of Canon Law: *Graduate Certificate in Canon Law*

- Overview:

The Graduate Certificate in Canon Law (GCCL) is a graduate program that provides advanced training in canon law for non-specialists whose occupation requires them to have additional expertise in this area. The GCCL is granted jointly by Saint Paul University and the University of Ottawa under the terms of the federation agreement between them.

The GCCL is intended for two types of student: (1) Students who already have an adequate training in a related discipline, e.g. theology, religious studies, philosophy (ecclesiastical), mission studies. (2) Students and practitioners of civil or common law who wish to acquire a further specialization in canon law.

On completion of the certificate, qualified students meeting admission requirements may apply for admission to the master's in Canon Law program and, on admission, complete the requirements of this program with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually.

- Admission criteria:

Prospective students must hold an honour's baccalaureate, or complete an equivalent program, with an average grade of at least "B". The baccalaureate or equivalent program must include, or be supplemented by, at least 18 credits in one of the following disciplines:

18 credits in theology and philosophy (ec-clesiastical), which suffice for admission to any of the concentrations;

18 credits in religious studies or mission studies, which suffice for admission to the concentrations in church governance or liturgical law;

18 credits in civil law or common law, which suffice for admission to the concentrations in matrimonial law or comparative law.

The Faculty of Canon Law reserves the right to assess individual applications and stipulate specific prerequisites for a concentration or a course, or to waive one or more prerequisites in view of the candidate's proven pastoral or professional experience.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate Requirements:

The program consists of 15 credits of courses, including the required course DCA 5102 General Norms I. The remaining courses are chosen, in consultation with the Dean, from among the graduate courses in canon law according to each student's educational needs and career goals.

Students may complete the certificate requirements full-time in one session or part-time over the course of one, two, or at most three years.

The passing grade in all courses is C+. Students who fail six credits or the same course twice, must withdraw from the program.

Students may choose one of the following concentrations below:

Concentration: Matrimonial Law

DCA5102 GENERAL NORMS I (3cr.)
DCA5125 MATRIMONIAL LAW I: MATRIMONIAL CONSENT (3cr.)
DCA5126 MATRIMONIAL LAW II: SPECIAL ISSUES AND CASES (3cr.)
DCA5133 JUDICIAL PROCEDURES (3cr.)

Elective: 3 credits

Concentration: Comparative Law

DCA5102 GENERAL NORMS I (3cr.)
DCA5207 SPECIAL SECTORS OF LAW (6cr.)
DCA5133 JUDICIAL PROCEDURES (3cr.)
OR
DCL5302 PHILOSOPHY OF LAW (3cr.)

Elective: 3 credits

Concentration: Church Governance

DCA5102 GENERAL NORMS I (3cr.)
DCA5103 UNIVERSAL AND SUPRA DIOCESAN CHURCH STRUCTURES (3cr.)
DCA5123 THE INTERNAL ORDERING OF PARTICULAR CHURCHES I: FOUNDATIONAL QUESTIONS (3cr.)
DCA5124 THE INTERNAL ORDERING OF PARTICULAR CHURCHES II: ADMINISTRATIVE ISSUES (3cr.)
Elective: 3 credits

Concentration: Liturgical Law

DCA5102 GENERAL NORMS I (3cr.)
DCA5204 SACRAMENTAL AND LITURGICAL LAW (6cr.)
DCA6315 LITURGICAL LAW OUTSIDE THE CODE (3cr.)

Elective: 3 credits

The University of Ottawa

Faculty of Canon Law: *Graduate Certificate in Canonical Practice*

- Overview:

The Graduate Certificate in Canonical Practice (GCCP) is a graduate program in canonical practice. The GCCP aims to provide students with the skills and information needed for various canonical professions.

The GCCP is open to students who have a degree in canon law or have already completed significant training in canon law and need a specialization to obtain employment in careers involving the practice of canon law. It allows them to acquire or deepen the knowledge and skills required for occupations and professions such as: judge, defender of the bond, promoter of justice, chancery personnel, lawyer, canonical consultant for various religious bodies, etc.

The GCCP is also available as a refresher program for canon lawyers and others who are already employed in the above mentioned positions, and who need updated or additional knowledge and specialized skills in particular areas of canonical practice.

The GCCP is granted jointly by Saint Paul University and the University of Ottawa under the terms of the federation agreement between them.

On completion of the certificate, qualified students meeting admission requirements may apply for admission to the master's in Canon Law program and, on admission, complete the requirements of this program with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually.

- Admission criteria:

Prospective students must hold an honour's baccalaureate, or provide evidence of an equivalent four-year program, with an average grade of at least "B".

The baccalaureate or equivalent program must include, or be supplemented by, at least 18 credits in the theological disciplines, or equivalent studies and pastoral or professional experience as determined by the Executive Committee of the Faculty of Canon Law.

The candidate's previous studies must either include, or be supplemented by, a degree in canon law, or at least 15 credits of course work and seminars in canon law, including a course on the general norms of canon law.

Courses that are part of parent programs other than canon law may have other prerequisites.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The certificate program consists of 15 credits of course or seminar work. Nine credits are required core courses. The remaining are drawn from elective courses chosen, in consultation with the Dean, according to each student's educational needs and career plans.

Students may complete the certificate requirements full-time in one session or part-time over the course of one, two, or at most three years.

The passing grade in all courses is C+. Students who fail six credits or the same course twice, must withdraw from the program.

Required Core Courses: 9 credits

DCA5133 JUDICIAL PROCEDURES (3cr.)

DCA6114 TRIBUNAL PROCEDURES (3cr.)

and one of the following two seminars:

DCA6321 SEMINAR ON TRIBUNAL PRACTICE (3cr.)

DCA6322 SEMINAR ON CHANCERY PRACTICE (3cr.)

Recommended courses: 6 credits are to be chosen from among the following:

DCA5125 MATRIMONIAL LAW I: MATRIMONIAL CONSENT (3cr.)

DCA5126 MATRIMONIAL LAW II: SPECIAL ISSUES AND CASES (3cr.)

DCA5204 SACRAMENTAL AND LITURGICAL LAW (6cr.)

DCA5306 GENERAL NORMS II (3cr.)

DCA6302 SPECIAL PROBLEMS IN CANON LAW II (3cr.)

DCA6315 LITURGICAL LAW OUTSIDE THE CODE (3cr.)

and the seminar not taken as required course:

DCA6321 SEMINAR ON TRIBUNAL PRACTICE (3cr.)

DCA6322 SEMINAR ON CHANCERY PRACTICE (3cr.)

The Dean may permit a student to choose elective courses from among other graduate courses. Except for a justifiable reason, the choice is limited to courses offered at the Faculty of Canon Law, the Faculty of Theology of Saint Paul University (sacramental theology), and the Faculty of Law of the University of Ottawa (family law).

Course credits obtained for another degree or certificate cannot be applied to the GCCP.

The University of Ottawa

Faculty of Human Sciences: *Graduate Certificate in Couple Counselling and Spirituality*

- Overview:

The Faculty of Human Sciences at Saint Paul University offers a graduate program leading to a Graduate Certificate in Couple Counselling and Spirituality. This certificate is conferred jointly by the Senates of Saint Paul University and the University of Ottawa under the terms of the federation agreement between them.

Professionals who seek to update their credentials and skills in the area of couple therapy, by completing the Certificate, will have met the requirements, in the area of theory and therapy, of the six marriage and family courses required towards certification by the American Association of Marriage and Family Therapists (AAMFT). AAMFT Clinical Membership pre-requisites include three master's courses in MFT theory and three courses in MFT training.

This program is intended for professionals who are already experienced counselors and who would like to specialize in couple counselling.

- Admission criteria:

Applications are evaluated based on the following criteria:

Hold a bachelor's degree with honours or with a major in a related discipline such as counselling, spirituality, practical theology, health care, psychology, social work, pastoral studies or a discipline judged equivalent to these;

Completion of 24 credits in total in psychology and sociology;

Completion of a counselling training with clinical experience (a minimum of 120 face-to-face hours with clients);

An average of at least 70% (B) calculated in accordance with FGPS guidelines.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

Core Courses (12 cr.)

IPA5138 THEORIES OF FAMILY SYSTEMS AND INTERVENTION (3cr.)

IPA5144 THEOLOGY AND COUNSELLING (3cr.)

IPA7104 THEORIES OF COUPLE COUNSELLING (3cr.)

IPA7107 COUPLE DYSFUNCTION AND ASSESSMENT IN COUPLE COUNSELLING (3cr.)

Optional Courses (6 cr.)

Two courses from the following:

IPA5134 PRACTICAL THEOLOGY (3cr.)
IPA5142 WORKING WITH TRAUMA AND VIOLENCE IN FAMILIES (3cr.)
IPA5161 UNDERSTANDING THE TRAUMA OF SEXUAL ABUSE (3cr.)
IPA7109 SURVEY OF SEXUAL DYSFUNCTION AND TREATMENT (3cr.)
ECS5112 TRAUMA, HEALING AND RECONCILIATION (3cr.)

The compulsory courses will be offered every year. The optional courses IPA 5134 Practical Theology, and IPA 5142 Working with Trauma and Violence in Families will be offered every year. IPA 5161 Understanding the Trauma of Sexual Abuse, IPA 7109 Survey of Sexual Dysfunction and Treatment and ECS 5112 Trauma, Healing and Reconciliation will be offered on a two-year cycle.

The passing grade in all courses is C+. Students who fail two courses (equivalent to 6 credits) or the same course twice must withdraw from the program.

The requirements of the certificate must be fulfilled within three years of initial registration in the program.

The University of Ottawa

Telfer School of Management: *Graduate Certificate in E- Business*

- Overview:

Electronic business focuses on organizational transformations based on information technologies. Web-based electronic commerce is having a major impact on the activities of business organizations. A number of different forms of integration among or inside organizations have become feasible, for example: B2B (business-to-business), B2C (business-to-consumer), B2E (business-to-employee), in the areas of customer relationship management, supply chain management, aggregation of information assets, and other areas. Organizations that undertake e-commerce often make radical changes in their business models, and offer new products and services in ways that were not envisaged or possible previously. These new practices are referred to as "electronic business". Therefore, the concept of e-business, as described above, differs from the concept of e-commerce, which targets the technological context of online transactions.

There is an acute, global shortage of skilled personnel trained to develop electronic business solutions in a principled, systematic way. Developers and educators agree that expertise in electronic business must combine advanced knowledge of electronic commerce, business administration, information technology, and law. The University of Ottawa is particularly strong at the graduate level in all of these areas. The graduate certificate in electronic business, is based primarily on the expertise and resources within the graduate programs in business administration, computer science and law. The certificate is multidisciplinary and modular: it consists of common core courses, as well as optional courses.

On completion of the certificate, qualified students meeting admission requirements may apply to one of our existing master's programs, in particular the MBA and, on admission, complete the requirements for those programs with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually with relation to the student's chosen master's program.

- Admission criteria:

Admission is competitive. The minimum requirement is a bachelor's degree with honours in business administration or computer science, or an equivalent degree in electrical engineering or business information, with a minimum average of 75 per cent (B+). The admissions committee may admit candidates who do not meet the above requirement but who meet the minimum requirements of the Faculty of Graduate and Postdoctoral Studies and have demonstrated knowledge of these subjects through relevant training and/or experience. Candidates for whom a list of additional qualifying courses is required may be considered in exceptional cases. In the latter situation, candidates must obtain a minimum grade of B+ in all their qualifying courses.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The certificate requirements consist of 12 credits of core courses and six credits of electives. The passing grade in all courses is B. A student who fails 4.5 credits or more or the same course twice must withdraw from the program.

Core Courses (12 credits)

ADM6274 ELECTRONIC BUSINESS STRATEGIES (1.5cr.)
ADM6275 BUSINESS PROCESS TRANSFORMATION (1.5cr.)

DCL7301 REGULATION OF INTERNET COMMERCE (3cr.)

EBC6210 ELECTRONIC COMMERCE ARCHITECTURE (1.5cr.)
EBC6220 DATA MINING AND CUSTOMER RELATIONSHIP MANAGEMENT (1.5cr.)
EBC6230 ELECTRONIC SUPPLY CHAIN TECHNOLOGIES AND APPLICATIONS (1.5cr.)
EBC6240 WIRELESS ELECTRONIC COMMERCE (1.5cr.)

Optional Courses (6 credits to be chosen from the following)

ADM6276 ENTERPRISE RESOURCE PLANNING SYSTEMS MANAGEMENT (1.5cr.)
ADM6279 SOCIO-TECHNICAL CHANGE (1.5cr.)
ADM6420 ELECTRONIC MARKETING (1.5cr.)

DCL7302 REGULATION OF INTERNET COMMUNICATIONS (3cr.)
DCL7303 ELECTRONIC COMMERCE PRACTICE WORKSHOP (3cr.)

EBC6130 WEB SERVICES (1.5cr.)
EBC6170 INTERNET SECURITY AND E-PAYMENT SYSTEMS (1.5cr.)
EBC6180 ELECTRONIC HUMAN RESOURCES MANAGEMENT (1.5cr.)
EBC6250 DOCUMENT ENGINEERING FOR E-BUSINESS (1.5cr.)
EBC6260 INTEGRATED NETWORKS FOR THE ENTERPRISE (1.5cr.)
EBC6900 STAGE INTERNATIONAL / INTERNATIONAL WORK TERM (3cr.)

The University of Ottawa

Faculty of Canon Law: *Graduate Diploma in Ecclesiastical Administration*

- Overview:

The Graduate Certificate in Ecclesiastical Administration (GCECA) is a graduate program that offers an advanced specialization, within the general discipline of canon law, suited to careers in church administration.

The GCEA is open to students who have a university degree in canon law, or have already completed significant training in canon law, and are interested in careers in the administration of various church institutions and organizations. The program provides students with specialized knowledge, from the perspective of canon law, of issues related to the governance and management of dioceses and religious institutes, church tribunals, ecclesiastical educational and health care institutions, and other similar bodies.

The GCEA is conferred jointly by Saint Paul University and the University of Ottawa under the terms of the federation agreement between them.

On completion of the certificate, qualified students meeting admission requirements may apply for admission to the master's in Canon Law program and, on admission, complete the requirements of this program with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually.

- Admission Criteria:

Prospective students must hold an honours baccalaureate, or provide evidence of an equivalent four-year program, with an average grade of at least "B".

The baccalaureate or equivalent program must include, or be supplemented by, at least 18 credits in the theological disciplines, or equivalent studies and pastoral or professional experience as determined by the Executive Committee of the Faculty.

The candidate's previous studies must either include, or be supplemented by, a degree in canon law, or at least 15 credits of course work and seminars in canon law, including a course on the general norms of canon law.

Courses that are part of parent programs other than canon law may have other prerequisites.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The certificate program requires 15 credits of courses, consisting of 9 credits of core courses and 6 credits of specialized courses OR 12 credits of core courses and 3 credits of specialized courses, in keeping with the student's own educational needs and career plans.

Students may complete the certificate requirements full-time in one session or part-time over the course of one, two, or three years.

The passing grade in all courses is C+. Students who fail six credits or the same course twice, must withdraw from the program.

Core Courses:

The following two courses are required:

DCA5309 SPECIAL TOPICS IN CODE II
DCA6112 SELECTED ISSUES IN CHURCH ADMINISTRATION (3cr.)

At least 3 credits must be taken from among the following two courses:

DCA5308 SPECIAL TOPICS IN CODE I (3cr.)
DCA6114 TRIBUNAL PROCEDURES (3cr.)

Specialized Courses:

DCA5123 THE INTERNAL ORDERING OF PARTICULAR CHURCHES I: FOUNDATIONAL QUESTIONS (3cr.)
DCA5124 THE INTERNAL ORDERING OF PARTICULAR CHURCHES II: ADMINISTRATIVE ISSUES (3cr.)
DCA5203 INSTITUTES OF CONSECRATED LIFE AND SOCIETIES OF APOSTOLIC LIFE (3cr.)
DCA5133 JUDICIAL PROCEDURES (3cr.)
DCA6302 SPECIAL PROBLEMS IN CANON LAW II (3cr.)
DCA6316 THE LAITY AND THE CHURCH'S OFFICE OF GOVERNANCE (3cr.)

HAH6212 HEALTH CARE ETHICS (1.5cr.)
HAH6260 HEALTH CARE SYSTEM ORGANIZATION AND POLICY (1.5cr.)

IPA5149 PROFESSIONAL ISSUES AND ETHICS IN SPIRITUAL CARE (3cr.)
IPA6152 THEOLOGY AND SPIRITUAL CARE (3cr.)

THO6342 ETHICS AND HEALTH SCIENCES (3cr.)

With permission of the Dean, a student may also choose other elective graduate courses, whether offered by the Faculty of Canon Law or another faculty of Saint Paul University or the University of Ottawa—especially in Law, Pastoral Theology, Administration, or Management. Course credits obtained for another degree or certificate cannot be applied to the GCCA.

The University of Ottawa

Faculty of Arts: *Graduate Certificate in Government Communication*

- Overview:

The government communication certificate program focuses on the mechanisms of internal and external communication in a bureaucratic and political environment. Teaching and research issues in this field can include topics such as communication challenges related to a multicultural and diverse public service; risk and crisis communications; the use of communication and information technologies in knowledge management and transfer; organizational networks and communication flow; the ways in which employee communication, employee satisfaction, and employee effectiveness are interrelated; strategic planning; group and interpersonal interactions; media relations; branding; and ethical and practical issues faced by professional communicators who are sometimes asked to perform functions of a political nature. Governments studied may function at the local, regional, national or international levels.

The graduate certificate program is intended to meet the needs of qualified students who plan to apply the concepts learned in a practical context. The knowledge acquired in the program will facilitate their effective functioning in government and give them additional tools to advance in their careers.

- Admission criteria:

The requirements for admission to the graduate certificate program in government communication are as follows:

An honours bachelor's degree with a specialization or major or equivalent in Communication or a related discipline; or an honours bachelor's degree with a specialization or major in another discipline, with a minor in Communication and two or more years of relevant experience; or an honours bachelor's degree with a specialization or major in another discipline, with three or more years of relevant experience;

A minimum overall average of 70% (B), calculated in accordance with FGPS guidelines;

The ability to understand, speak and write proficiently both French and English. Proof of this ability may be required.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The graduate certificate program requires 15 credits, of which 9 are compulsory and 6 are optional. Students must take a minimum of 6 credits in the second language. In all courses, examinations and assignments must be submitted in the language of the course.

The passing grade in the 3 courses of the major language is C+. For the 2 courses in the other language, the student can choose to receive an alphanumeric grade or a qualitative grade, that is, either Satisfactory (S) or Not Satisfactory (NS). Note that this possibility applies to a maximum of two courses taken in the second language. To find out how to request a qualitative grade, students should contact the Immersion Program Office before the drop date for the course.

Students are also encouraged to register for the Second Language Certification (ESL 3100) offered by the Official Languages and Bilingualism Institute (OLBI).

Students who fail six credits or the same course twice, must withdraw from the program. All requirements must be met within three years.

Compulsory courses (9 credits):

CMN5120 PUBLIC COMMUNICATION CAMPAIGNS: THEORIES AND APPLICATIONS (3cr.)
CMN5135 COMMUNICATION MANAGEMENT (3cr.)
CMN5141 GOVERNMENT COMMUNICATION (3cr.)

Optional courses (6 credits) to be chosen from the following:

CMN5115 COMMUNICATION ETHICS (3cr.)
CMN5130 DIVERSITY IN THE WORKPLACE : COMMUNICATION CHALLENGES (3cr.)
CMN5131 ORGANIZATIONAL COMMUNICATION THEORIES (3cr.)
CMN5132 THEORIES AND EFFECTS OF THE MEDIA (3cr.)
CMN5136 VIRTUAL WORK TEAMS (3cr.)
CMN5140 COMMUNICATION, GLOBALIZATION AND CHANGE (3cr.)
CMN5142 RISK AND CRISIS COMMUNICATION (3cr.)
CMN5150 KNOWLEDGE MANAGEMENT (3cr.)
CMN5155 ADVANCED RESEARCH IN TRADITIONAL AND EMERGING MEDIA (3cr.)
CMN5160 POLITICAL USES OF MEDIA (3cr.)
CMN5165 NEW DIRECTIONS IN JOURNALISM (3cr.)
CMN5170 INTERNATIONAL COMMUNICATION (3cr.)

The University of Ottawa

Faculty of Education: *Graduate Certificate in Health Professions Education*

- Overview:

The graduate certificate in health professions education allows candidates to gain expertise in university health professions education. It is offered in both English and French.

- Admission criteria:

To be admitted, candidates must have:

An honour's bachelor's degree in Education or the equivalent (a bachelor's degree with at least 120 credits in another discipline and the equivalent of at least 3 years full-time teaching experience at the undergraduate, graduate, or continuing professional development levels); OR a professional or graduate university degree such as an MD, Master's or PhD, with at least one year's full-time teaching experience, either in a classroom setting and/or as a clinical supervisor as a health professional;

An overall average of 70% (B), calculated in accordance with FGPS guidelines;

Proficiency in either English or French.

On completion of the graduate certificate, qualified students meeting admission requirements could apply to one of the related master's programs, in particular the MA in Education or the MEd and, upon admission, complete the requirements for those programs with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually, at the time of admission, with relation to the student's chosen master's program.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The certificate requires successful completion of five courses (15 credits), with at least one course from each of the five themes listed below. The passing grade in all courses is C+. Students who fail six credits or the same course twice, must withdraw from the program. The program can be completed either full-time or part-time. Full-time students should expect to take evening courses.

All students must complete all the requirements of the certificate within three years following initial registration.

At least one health professions education course (EDU 5602/5202; EDU 5661/5261; EDU 5686/5286; EDU 5698/5298) is offered each session. All students must take at least one of these courses.

Teaching and Learning:

EDU5463 CULTURAL STUDIES AND EDUCATION: THEORY AND PRAXIS (3cr.)
EDU5202 TEACHING STRATEGIES FOR HEALTH PROFESSIONS EDUCATION (3cr.)
EDU5466 RACISM AND ANTIRACISM IN EDUCATION (3cr.)
EDU6204 LEARNING IN ADULTHOOD (3cr.)
EDU6200 THE ADULT EDUCATOR: ROLES AND BEHAVIOUR (3cr.)

Curriculum:

EDU5206 PROGRAM PLANNING IN ADULT EDUCATION (3cr.)
EDU5261 CURRICULUM DESIGN FOR HEALTH PROFESSIONS EDUCATION (3cr.)

Learning Assessment:

EDU6193 FOUNDATIONS OF MEASUREMENT AND EVALUATION IN EDUCATION (3cr.)
EDU6293 FORMATIVE EVALUATION OF LEARNING (3cr.)
EDU5298 STUDENT ASSESSMENT STRATEGIES FOR HEALTH PROFESSIONS EDUCATION (3cr.)

Technology and Education:

EDU5188 INTEGRATION OF TECHNOLOGY IN EDUCATION (3cr.)
EDU5286 TECHNOLOGY AND HEALTH PROFESSIONS EDUCATION (3cr.)
EDU5287 EMERGING TECHNOLOGIES AND LEARNING (3cr.)

Program Evaluation:

EDU5299 PROGRAM EVALUATION: METHODS AND PRACTICE (3cr.)
EDU6299 PROGRAM EVALUATION: THEORY AND CONTEMPORARY ISSUES (3cr.)

The University of Ottawa

Faculty of Arts: *Graduate Certificate in Information Studies*

- Overview:

The School of Information Studies, located in the Faculty of Arts, offers a graduate program leading to the degree of Master of Information Studies (MIS) and to a graduate certificate in Information Studies.

Programs will be offered partly in English, partly in French. Approximately two thirds of the courses will be taught in English and one third in French. In accordance with University of Ottawa policy, students have a right to produce their written work and to answer examination questions in French or in English.

- Admission criteria:

Admission to the graduate programs in Information Studies is governed by the General Regulations of the Faculty of Graduate and Postdoctoral Studies (FGPS). Applicants to the graduate certificate program must have a master's degree and a minimum cumulative average of 70% calculated in accordance with FGPS guidelines.

All applicants must be able to understand speak and write proficiently either English or French and have a passive knowledge (ability to understand the spoken and written word) of the other language. Applicants whose first language is neither English nor French must provide proof of proficiency in one or the other. The list of acceptable proofs is indicated in the "Admission" section of the General Regulations of the FGPS.

Applications are evaluated based on the following criteria:

Academic performance in previous studies as shown by official transcripts from each post-secondary institution attended;

An example of a written text demonstrating writing ability (at least 800 to 1000 words) in English or French;

Proof of second language abilities in either English or French

An up-to-date curriculum vitae providing evidence of relevant employment experience, leadership potential, and computer literacy.

The names and contact information for two people prepared to provide recommendations. One of the referees must be capable of evaluating the writing sample; the other should confirm employment experience.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The Graduate Certificate program requires completion of five ISI courses (15 credits), generally chosen from 6000-level courses. Up to six credits of relevant courses from other graduate programs at the University of Ottawa may be taken with the approval of the School of Information Studies Programs Committee and the other program concerned. Students are responsible for having completed the prerequisites for the selected courses. No equivalencies are granted.

Students in the Graduate Certificate in Information Studies must meet all the certificate requirements within three years of initial registration in the program.

The minimum passing grade in all courses taken as part of the Information Studies programs is 65% (C+). Students who incur failures in two courses (equivalent to six credits) must withdraw from the program.

The University of Ottawa

School of Information Technology and Engineering: *Graduate Certificate in Internet Technologies*

- Overview:

The objective of the graduate certificate in Internet Technologies is to educate high technology professionals with full undergraduate training for the growing Internet standards, methods, techniques and applications markets. It includes courses in both the main theories and applications of Internet engineering, as well as basic formation in the intricate world of Internet law and electronic commerce.

- Admission criteria:

The minimum admission requirements are a bachelor's degree with honours in electrical engineering, computer engineering, software engineering, computer science, or equivalent, with a minimum average of 75 per cent (B+). The admissions committee may, however, also recommend other candidates, who satisfy the minimum admission requirements of the Faculty of Graduate and Postdoctoral Studies and have a demonstrated knowledge and/or experience in the field. Candidates for whom a list of additional qualifying courses will be required may be considered in exceptional cases. In this case, they must obtain a minimum grade of B+ in all their additional courses.

On completion of the certificate, qualified students meeting admission requirements could apply to one of the master's programs, in particular the master of computer science or the MEng or MASc in electrical engineering, and, upon admission, complete the requirements for those programs with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually, at the time of admission, with relation to the student's chosen master's program.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The Certificate requirements are as follows: 12 credits of core courses and 6 credits of electives. All academic regulations of the Faculty of Graduate and Postdoctoral Studies will apply to the Certificate. The passing grade for all courses is B.

Core courses (12 credits as follows):

Two compulsory courses:

ELG5374 (EACJ 5607) COMPUTER COMMUNICATION NETWORKS (3cr.)
DCL7302 REGULATION OF INTERNET COMMUNICATIONS (3cr.)

Two courses among the following:

ELG5121 (EACJ 5201) MULTIMEDIA COMMUNICATIONS (3cr.)
ELG5369 (EACJ XXXX) INTERNETWORKING TECHNOLOGIES (3cr.)
ELG5373 (EACJ 5105) DATA ENCRYPTION (3cr.)

OR

CSI5105 (COMP 5406) NETWORK SECURITY AND CRYPTOGRAPHY (3cr.)

Electives (6 credits chosen from the following):

CSI5110 (COMP 5707) PRINCIPLES OF FORMAL SOFTWARE DEVELOPMENT (3cr.)

CSI5111 (COMP 5501) SOFTWARE QUALITY ENGINEERING (3cr.)

CSI5112 (COMP 5207) SOFTWARE ENGINEERING (3cr.)

CSI5115 (COMP 5503) DATABASE ANALYSIS AND DESIGN (3cr.)

CSI5122 (COMP 5301) SOFTWARE USABILITY (3cr.)

CSI5134 (COMP 5004) FAULT TOLERANCE (3cr.)

CSI5140 (COMP 5900) SELECTED TOPICS IN COMPUTER SCIENCE (3cr.)

CSI5161 (COMP 5606) PRINCIPLES OF DISTRIBUTED SIMULATION (3cr.)

CSI5166 (COMP 5805) APPLICATIONS OF COMBINATORIAL OPTIMIZATION (3cr.)

CSI5169 (COMP 5304) WIRELESS NETWORKS AND MOBILE COMPUTING (3cr.)

CSI5171 (COMP 5303) NETWORK ARCHITECTURES, SERVICES, PROTOCOLS AND STANDARDS (3cr.)

CSI5174 (COMP 5604) VALIDATION METHODS FOR DISTRIBUTED SYSTEMS (3cr.)

CSI5380 (COMP 5405) SYSTEMS AND ARCHITECTURES FOR ELECTRONIC COMMERCE (A, S) (3cr.)

CSI5387 (COMP 5706) DATA MINING AND CONCEPT LEARNING (3cr.)

CSI5389 (COMP 5401) ELECTRONIC COMMERCE TECHNOLOGIES (3cr.)

ELG5124 (EACJ 5204) VIRTUAL ENVIRONMENTS (3cr.)

ELG5191 (EACJ 5203) DESIGN OF DISTRIBUTED SYSTEM SOFTWARE (3cr.)

ELG5371 (EACJ 5500) DIGITAL COMMUNICATION BY SATELLITE (3cr.)

ELG5372 (EACJ 5504) ERROR CONTROL CODING (3cr.)

ELG5378 (EACJ 5509) IMAGE PROCESSING AND IMAGE COMMUNICATIONS (3cr.)

ELG5381 (EACJ 5004) PHOTONICS NETWORKS (3cr.)

ELG5382 (EACJ 5108) SWITCHING AND TRAFFIC THEORY FOR INTEGRATED BROADBAND NETWORKS (3cr.)

ELG5383 (EACJ 5009) SURVIVABLE OPTICAL NETWORKS (3cr.)

ELG7178A TOPICS IN COMMUNICATIONS II: NETWORK APPLICANCES, HOME NETWORKING AND PERVASIVE COMPUTING

ELG7186 (EACJ 5807) TOPICS IN COMPUTERS I: FORMAL METHODS FOR THE DEVELOPMENT OF REAL-TIME SYSTEM APPLICATIONS (3cr.)

ELG7186C TOPICS IN COMPUTERS I: SOFTWARE ENGINEERING PROJECT MANAGEMENT

ELG7187A TOPICS IN COMPUTERS II: MOBILE SOFTWARE AGENT TECHNOLOGIES FOR TELECOMMUNICATIONS

The University of Ottawa

School of Information Technology and Engineering: *Graduate Certificate in Mobile Device Applications*

- Overview:

The Graduate Certificate in Mobile Device Applications is offered by the School of Information Technology and Engineering in conjunction with the Faculty of Graduate and Postdoctoral Studies (FGPS). It can be pursued either full-time or part-time. The program is offered mostly in English with courses in French when enrolments warrant it. According to University of Ottawa Regulations, students have the right to produce assignments, examinations, research papers and theses in either English or French.

- Admission criteria:

The minimum admission requirement is an honour's four-year bachelor's degree in one of the following: Electrical Engineering, Computer Engineering, Software Engineering, and Computer Science (Honours), or equivalent, with an average of at least a B (70%). The admissions committee may, however, also admit other candidates who satisfy the minimum admission requirements of the Faculty of Graduate and Postdoctoral Studies and have demonstrated relevant knowledge and/or experience. In some cases, candidates may be required to complete a maximum of three qualifying courses prior to admission, and achieve a minimum grade of B+ in each of the qualifying courses.

On completion of the graduate certificate, students meeting admission requirements may apply to the existing master's degree in Computer Science. To do so, they must satisfy the conditions set by section A-7.1 of the Faculty of Graduate and Postgraduate Studies regulations regarding transfer from graduate certificate to master's.

- Certificate completion requirements:

The graduate Certificate requirements consist of 6 credits of compulsory courses and 9 credits of optional courses. The optional courses are grouped into three areas: multimedia; networks and communication; and software and systems. Students must take a minimum of 3 credits from at least two different groups.

Compulsory Courses (6cr.)

CSI5130 APPLICATIONS DESIGN FOR MOBILE DEVICES (3cr.)
CSI5905 PROJET / PROJECT (3cr.)

Optional Courses (9cr.)

9 credits from the following list, with no more than 6 credits in any one group:

Group 1: Multimedia

CSI4133 COMPUTER METHODS IN PICTURE PROCESSING AND ANALYSIS (3cr.)
CSI5140 / ELG7187 (COMP 5900) SELECTED TOPICS IN COMPUTER SCIENCE (3cr.)
CSI5146 (COMP 5402) COMPUTER GRAPHICS (3cr.)

ELG5163 (EAJC 5105) MACHINE VISION (3cr.)
ELG7173 (EACJ 5601) TOPICS IN SIGNAL PROCESSING II (3cr.)

Group 2: Networks and Communication

CSI5105 / ELG7178 (COMP 5406) NETWORK SECURITY AND CRYPTOGRAPHY (3cr.)
CSI5169 (COMP 5304) WIRELESS NETWORKS AND MOBILE COMPUTING (3cr.)
ELG5121 / CSI7631 (EACJ 5201) MULTIMEDIA COMMUNICATIONS (3cr.)

Group 3: Software and Systems

CSI5122 (COMP 5301) SOFTWARE USABILITY (3cr.)
CSI5380 (COMP 5405) SYSTEMS AND ARCHITECTURES FOR ELECTRONIC COMMERCE (A, S) (3cr.)

The passing grade in all courses is B (70%). Failure in six credits or equivalent or in the same course twice leads to withdrawal from the certificate program.

The certificate requirements can be completed within one year. The maximum time permitted is three years from the time of initial registration.

The University of Ottawa

School of Information Technology and Engineering: *Graduate Certificate in Modeling and Animation for Computer Games Technology*

- Overview:

Internet and Virtual Reality (VR) technologies are quickly becoming essential tools in our daily activities.

The Internet is used worldwide as an unlimited source of knowledge and information, as a vehicle for profitable trade and as a forum for discussion. The economic significance of the Internet is tremendous. Billions of dollars in business transactions are conducted each year on websites such as E*TRADE , eBay and Dell. The Internet has become the vehicle for integrated collaborative multimedia (voice/video/graphics/ data) communications. It is absorbing within its standards and protocols other well established technologies such as: telephony, facsimile, text messaging, data and entertainment technologies. Its fastest growing service, the World Wide Web, has created a true information revolution and is daily pushing the limits of current technologies to cope with its growth.

The objective of the Graduate Certificate in Modeling and Animation for Computer Games Technology is to educate high-technology professionals for the growing collaborative multimedia and VR technology standards, methods, techniques and applications markets. It includes courses in both the basic theories and applications of collaborative multimedia technology and large scale modeling, as well as courses in the intricate world of Computer Animations (with applications in soft-images, simulation, multimedia teaching, e-training, computer games and many others).

- Admission criteria:

The minimum admission requirements to the certificate are an honours bachelor's degree or equivalent in electrical engineering, computer engineering, software engineering, or computer science, with a minimum average of 75% (B+). The admissions committee may, however, also recommend other candidates, who satisfy the minimum admission requirements of the FGPS and have demonstrated knowledge and/or experience of the field. Candidates for whom a list of additional qualifying courses will be required may be considered on an exceptional basis. In this case, they must obtain a minimum grade of B+ in all their additional courses.

On completion of the certificate, qualified students meeting admission requirements for the master's programs in computer science or electrical engineering (MCS, MEng, MASc), could apply to one of those programs, and upon admission, complete their requirements with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually, at the time of admission, with relation to the student's chosen master's program.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The Certificate requirements are as follows: 3 credits of core courses and 12 credits of elective courses. The passing grade in all courses is 70% (B). Students who fail six credits or the same course twice, must withdraw from the program. The program can be completed either full-time or part-

time. Full-time students should expect to take evening courses. All students must complete the requirements of the certificate within three years following initial registration.

Core Course (3 cr.)

ELG 5124

Electives (12 cr. to be chosen from the following courses)

CSI 5122

CSI 5140

CSI 5161

CSI 5180

ELG 5121

ELG 5191

ELG 5196

ELG 5378

ELG 7113

ELG 7186

ELG 7187

The University of Ottawa

Faculty of Arts: *Graduate Certificate in Orchestral Studies*

- Overview:

The graduate certificate in Orchestral Studies is designed for specialized, intensive work in performance by talented instrumentalists who have already achieved a significant level of proficiency on the instrument of their choice, and whose career goal is to become orchestral musicians.

Graduates of this program will be recognized as being fully-ready to hold a position in a world-class orchestra. The certificate program combines a tutorial/apprenticeship approach with graduate theoretical courses and a practical course dealing specifically with the challenges of a professional career as a musician.

The certificate can normally be completed in one academic year (September to April) and consists of the courses listed below. The orchestral practicum will normally consist of students' performing in the OSO (Ottawa Symphony Orchestra) and other ensembles as assigned by the director of the program. The certificate may be pursued before, after or rather than the MMus. All students will be required to complete it within a maximum of three years. Graduates of the certificate who subsequently wish to pursue a master's in Music may apply for admission and complete the master's degree with credit granted for relevant certificate courses.

- Admission criteria:

Candidates are required to have one of the following: a BMus; a four-year honours baccalaureate in music; an equivalent degree, certificate, or diploma. A 75 per cent (B+) average is required for the undergraduate degree or diploma. In addition, applicants must pass an audition. Students must understand, speak and write either English or French fluently. In addition, they must have a passive knowledge of Canada's other official language, French or English. According to university regulations, students can write their papers and exams in the official language of their choice (either English or French).

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The requirements of the Certificate in Orchestral Studies are as follows: 9 credits of core courses and 6 credits of electives. The passing grade in all courses is C+ and students who fail two courses (six credits) must withdraw.

Core courses (9 credits)

MUS6909 INTERPRÉTATION ORCHESTRALE PROFESSIONNELLE / PROFESSIONAL ORCHESTRAL PERFORMANCE (3cr.)

MUS6905 LEÇONS ORCHESTRALES PARTICULIÈRES / APPLIED ORCHESTRAL LESSONS (3cr.)

MUS5902 STAGE EXTERNE / EXTERNAL PRACTICUM (3cr.)

Elective courses (6 credits to be chosen from the following)

MUS6904 MUSIQUE ET AFFAIRES / THE BUSINESS OF MUSIC (3cr.)

MUS6970 RÉPERTOIRE DE MUSIQUE DE CHAMBRE / CHAMBER MUSIC REPERTOIRE (3cr.)

MUS6990 SÉMINAIRE SUR LES TECHNIQUES D'INTERPRÉTATION / SEMINAR IN PERFORMANCE PRACTICE (3cr.)

MUS6991 INTERPRÉTATION COMPARÉE / COMPARATIVE INTERPRETATION (3cr.)

MUS6993 THÈMES EN INTERPRÉTATION / TOPICS IN PERFORMANCE (3cr.)

MUS6996 ÉTUDE INDIVIDUELLE EN INTERPRÉTATION / INDEPENDENT STUDIES IN PERFORMANCE (3cr.)

The University of Ottawa

Faculty of Arts: *Graduate Certificate in Piano Pedagogy Research*

- Overview:

A large percentage of music majors become piano teachers either in private studios or in specialized music schools and a significant number of those teachers are interested in continuing their training, either immediately after their undergraduate program or a few years after becoming integrated into the work force. This Graduate Certificate in Piano Pedagogy Research has been created to meet the needs of those students.

Interest in research into the theory and practice of piano pedagogy is in a growth period. This program will provide an in-depth study of the research done in piano pedagogy or related disciplines as it contributes to our understanding of the processes involved in learning to play the piano. This graduate certificate will enable piano teachers to incorporate scientific knowledge into their own practice of piano teaching and will contribute to developing highly qualified professionals with a strong interest in research in the field.

The Graduate Certificate in Piano Pedagogy Research is offered both on a part-time basis and a full-time basis. Full-time students will normally complete the Certificate within two sessions (September to April). All students will be required to complete it within three years.

On completion of the certificate, qualified students meeting admission requirements may apply to the MMus or the MA in Music and, on admission, complete the requirements for those programs with credit granted for relevant courses already completed in the certificate. The number of credits remaining would be assessed individually with relation to the student's chosen master's program.

- Admission criteria:

Candidates are required to have one of the following: a BMus; a four-year honours BA in music; an equivalent degree, certificate, or diploma. They must have achieved a 75 per cent (B+) average in their undergraduate degree or equivalent diploma. Students must understand, speak and write either English or French fluently. In addition, they must have a passive knowledge of Canada's other official language, French or English. According to university regulations, students can write their papers and exam in the official language of their choice (either English or French).

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The Graduate Certificate in Piano Pedagogy Research requires successful completion of five courses (15 credits), of which 12 are electives, and an oral examination. The passing grade in all courses is C+ and students who fail two courses (six credits) must withdraw.

Core courses (3 cr.)

At least one of the following two courses: (MUS 6931 or MUS 6932)

MUS6931 THÈMES EN PÉDAGOGIE DE LA MUSIQUE / TOPICS IN MUSICAL PEDAGOGY (3cr.)

MUS6932 THÈMES EN PÉDAGOGIE DU PIANO / TOPICS IN PIANO PEDAGOGY (3cr.)

and

MUS6935 EXAMEN ORAL / ORAL EXAMINATION

Elective courses (12 cr.)

Students are strongly encouraged to take MUS 5902 (External Practicum) as one of their electives. A maximum of six credits of EDU courses can be included among the electives.

MUS5902 STAGE EXTERNE / EXTERNAL PRACTICUM (3cr.)

MUS5910 SÉMINAIRE DE RECHERCHE / RESEARCH SEMINAR

MUS6990 SÉMINAIRE SUR LES TECHNIQUES D'INTERPRÉTATION / SEMINAR IN PERFORMANCE PRACTICE (3cr.)

MUS6991 INTERPRÉTATION COMPARÉE / COMPARATIVE INTERPRETATION (3cr.)

MUS6993 THÈMES EN INTERPRÉTATION / TOPICS IN PERFORMANCE (3cr.)

MUS6994 ÉTUDES INDIVIDUELLE EN PÉDAGOGIE DE LA MUSIQUE / INDEPENDENT STUDIES IN MUSICAL PEDAGOGY (3cr.)

MUS6995 LECTURES DIRIGÉES DANS LE DOMAINE DE LA PÉDAGOGIE DE LA MUSIQUE / DIRECTED READINGS IN MUSICAL PEDAGOGY (3cr.)

MUS6996 ÉTUDE INDIVIDUELLE EN INTERPRÉTATION / INDEPENDENT STUDIES IN PERFORMANCE (3cr.)

EDU5185 RESEARCH AND CONTEMPORARY ISSUES IN TEACHING AND LEARNING

EDU5253 THEORIES OF LEARNING APPLIED TO TEACHING (3cr.)

EDU5381 CREATIVITY AND THE LEARNING PROCESS (3cr.)

EDU5653 THÉORIES ET MODÈLES DE L'APPRENTISSAGE (3cr.)

EDU8253 COGNITIVE PROCESSES IN DIVERSE EDUCATIONAL CONTEXTS (3cr.)

EDU8653 PROCESSUS COGNITIFS DANS DIVERS CONTEXTES ÉDUCATIFS (3cr.)

It is possible to substitute another EDU course for any of the EDU courses above with the prior approval of the Director of Graduate Studies in Music.

The University of Ottawa

The Institute of Population Health: *Graduate Certificate in Population Health Risk Assessment and Management*

- Overview:

Population health risk assessment is the comprehensive assessment of health risks in the general population based on environmental, genetic, economic, social and behavioural determinants of health. This leads to evidence-based population health risk policy analysis, and ultimately, cost effective population health risk management decisions.

The Graduate Certificate in Population Health Risk Assessment and Management is specially designed for those individuals employed and/or interested in population health analysis and risk assessment. The certificate aims to provide the professional skills and knowledge needed to pursue careers in both the public and the private sectors. The certificate is offered both full- and part-time.

On completion of the Certificate, qualified students meeting admission requirements could apply to one of the following programs: the Master of Science (MSc) in Epidemiology, the Master of Health Administration (MHA) or the Doctorate in Population Health (PhD). Upon admission, students will have to complete the requirements of their program with credits granted for relevant certificate courses.

Once you have completed the Graduate Certificate in Population Health Risk Assessment and Management, you may request admission to the MSc in Epidemiology. Admission to the MSc is competitive and the number of candidates admitted is limited. If you are admitted, some credits from the Graduate Certificate may be retained in the MSc. This evaluation is made on a case-by-case basis by the MSc Epidemiology Program Committee.

- Admission criteria:

Admission is competitive. Candidates must normally hold a bachelor's degree with honours in science, health sciences and/or social sciences with an average of 75% (B+) or above. Candidates holding credentials that may not exactly match these standards but who meet the Faculty of Graduate and Postdoctoral Studies (FGPS) minimum admission requirements may be admitted based on having demonstrated knowledge and skills obtained through relevant training and/or experience. Proficiency in English is required. Ideally, students applying to the Certificate would have successfully completed EPI 5240 and EPI 5242 prior to their admission. Students who have not completed courses in biostatistics and epidemiology will be required to attend a one-week each intensive courses at the end of August. These courses are offered by the University of Ottawa.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The graduate certificate requirements consist of 15 credits, with nine credits of core courses and six credits of electives. The passing grade in all courses is C+. Students who fail six credits or the same course twice must withdraw from the program. The certificate requirements must be completed

within a maximum of three years.

Core courses (nine credits):

PHR5181 POPULATION HEALTH RISK ASSESSMENT I (3cr.)
PHR6182 POPULATION HEALTH RISK ASSESSMENT II (3cr.)
PHR6101 RISK MANAGEMENT IN GOVERNMENT (3cr.)

Optional courses (six credits) to be chosen from the following:

EPI5188 HEALTH TECHNOLOGY ASSESSMENT (3cr.)
EPI5189 HEALTH ECONOMIC EVALUATION (3cr.)
EPI5213 CHRONIC DISEASE EPIDEMIOLOGY (3cr.)
EPI5241 EPIDEMIOLOGY II - ADVANCED EPIDEMIOLOGY (3cr.)
EPI5251 MEASUREMENT IN HEALTH (3cr.)
EPI6181 SOCIAL ASPECTS OF EPIDEMIOLOGY (3cr.)
EPI6188 SYSTEMATIC REVIEWS AND META-ANALYSIS (3cr.)
EPI6276 QUANTITATIVE METHODS IN EPIDEMIOLOGY (3cr.)
EPI6278 ADVANCED CLINICAL TRIALS (3cr.)
EPI6283 PHARMACOEPIDEMIOLOGY (3cr.)
EPI6581 INTRODUCTION À L'ÉPIDÉMIOLOGIE SOCIALE (3cr.)
EPI7181 EPIDEMIOLOGY FOR HEALTH POLICY (3cr.)

HAH6201 POPULATION HEALTH AND EPIDEMIOLOGY (1.5cr.)
HAH6210 OPERATIONAL AND ECONOMIC EVALUATION OF HEALTH CARE (1.5cr.)
HAH6212 HEALTH CARE ETHICS (1.5cr.)
HAH6251 HEALTH CARE ECONOMICS AND RESOURCE ALLOCATION (1.5cr.)
HAH6262 HEALTH CARE LAW (1.5cr.)
HAH6270 HEALTH INFORMATICS: MANAGEMENT PERSPECTIVE (1.5cr.)

PHR6900 DIRECTED STUDIES IN POPULATION HEALTH RISK ASSESSMENT (3cr.)
PHR6910 PRACTICUM IN POPULATION HEALTH RISK ASSESSMENT AND MANAGEMENT (3cr.)

PSY6905 PSYCHOLOGIE COMMUNAUTAIRE / COMMUNITY PSYCHOLOGY (3cr.)
PSY6923 RECHERCHE SUR LE STRESS PSYCHOSOCIAL / PSYCHOSOCIAL STRESS RESEARCH (3cr.)
PSY6982 LA PSYCHOLOGIE ET LA SANTÉ / PSYCHOLOGY AND HEALTH (3cr.)
PSY7102 FIELD RESEARCH IN SOCIAL AND COMMUNITY INTERVENTIONS (3cr.)
PSY7103 PROGRAM EVALUATION (3cr.)

The University of Ottawa

School of Nursing: *Graduate Diploma and Primary Health Care Nurse Practitioner (PHCNP) Certificate*

- Overview:

The School of Nursing offers a diploma in Primary Health Care Nurse Practitioner. The goal of the program is to educate registered nurses for an advanced practice role as a primary health care nurse practitioner (NP). The graduates of this program are prepared to assume leadership roles in improving the quality of nursing care as nurse practitioners in various primary health care settings. The program provides rigorous academic preparation based on theory, research, and practice to address health-related phenomena experienced by individuals, families, groups and communities.

The faculty of the School of Nursing is committed to assisting students to achieve the following objectives:

Synthesize complex health information using advanced diagnostic reasoning and critical thinking skills.

Critically appraise current evidence to support best practices.

Provide comprehensive evidence based on primary health care to clients and families across the lifespan applying clinical, theoretical and research knowledge.

Evaluate existing community level primary health care programs and develop new programs to meet the primary health care needs of the community.

Evaluate and influence policies affecting the health of the community.

Practice autonomously within a collaborative, interprofessional model to promote client health.

Deliver primary health care utilizing the roles (researcher, educator, and leader, collaborator, and change agent) recognized as advanced nursing practice.

The Diploma is offered in English and French as a post master's degree option on a full-time or part-time basis. According to university regulations, students have the right to use French or English in their dealings with the Central Administration and the General Services and with the administration of the faculty or school where they are registered. Except in language courses, students have the right to produce their work and answer examination questions in the official language of their choice (either English or French).

All courses are offered in English and French by distance modalities. NP courses have a number of on-site tutorials for the clinical courses, and every effort will be made to provide clinical placements in either language close to the geographic area where the student is located.

- Admission criteria:

Candidates for the Primary Health Care Nurse Practitioner Diploma will be considered for admission under the general regulations of the Faculty of Graduate and Postdoctoral Studies (FGPS).

The admission requirements are as follows:

Baccalaureate degree in nursing;

Master's degree in nursing or related discipline (e.g. education, health administration, public health)*;

Overall average of at least 70% (B) calculated in accordance with FGPS guidelines;

Current certificate of competence from the College of Nurses of Ontario or equivalent from another province;

The equivalent of two years nursing practice (3,640 hours) as a registered nurse within the last five years.

* In exceptional circumstances, the file of a candidate without a Master's degree could be considered.

- Diploma completion requirements:

The diploma requires 30 credits as follows:

NSG5350 PATHOPHYSIOLOGY FOR THE NURSE PRACTITIONER (3cr.)
NSG5360 ROLES AND RESPONSIBILITIES OF THE NURSE PRACTITIONER (3cr.)
NSG5370 ADVANCED HEALTH ASSESSMENT AND DIAGNOSIS I (3cr.)
NSG5375 ADVANCED HEALTH ASSESSMENT AND DIAGNOSIS II (3cr.)
NSG5380 THERAPEUTICS IN PRIMARY HEALTH CARE I (3cr.)
NSG5385 THERAPEUTICS IN PRIMARY HEALTH CARE II (3cr.)
NSG5401 INTEGRATIVE PRACTICUM (12cr.)

The University of Ottawa

Centre for Research on Educational and Community Services: *Graduate Certificate in Program Evaluation*

- Overview:

The University of Ottawa Graduate Certificate in Program Evaluation is offered, in French and in English, as an interdisciplinary program through the collaboration of the Faculty of Education and the School of Psychology in the Faculty of Social Sciences. The program is housed in the Centre for Research on Educational and Community Services, which is jointly sponsored by the two faculties.

The objective of the graduate certificate is to offer advanced training in program evaluation to individuals in the public, private, and not-for-profit sectors. Program evaluation involves the use of social science methods to inform the development and improvement of programs, organizations, and public policies. The curriculum is designed to provide students with the necessary competencies to enable them to conduct independent program evaluations of high quality.

- Admission criteria:

Honours Bachelor's degree in Education, Social Sciences, Health Sciences or Psychology (or equivalent);

Minimum 70% (B) average calculated in accordance with FGPS guidelines;

Proficiency in either English or French;

Completion of an undergraduate course in research methods including statistics with a minimum grade of 70% (B).*

*Candidates who have not already completed such a course will be required to do so on a special-student basis prior to admission.

- Certificate completion requirements:

The curriculum consists of courses in evaluation theory, evaluation methods and practice, contemporary issues in program evaluation, and a practicum (PSY 7102).

CORE COURSES (12 CREDITS)

EDU5299 PROGRAM EVALUATION: METHODS AND PRACTICE (3cr.)

EDU5699 ÉVALUATION DE PROGRAMMES (3cr.)

OR

PSY7103 PROGRAM EVALUATION (3cr.)

PSY7503 ÉVALUATION DE PROGRAMMES (3cr.)

OR

CRM6359 EVALUATION OF CRIMINAL JUSTICE PROGRAMS, POLICIES AND LEGISLATION (3cr.)

CRM6759 ÉVALUATION DES PROGRAMMES, DES POLITIQUES ET DES LOIS EN MATIÈRE DE JUSTICE CRIMINELLE (3cr.)

PSY7102 FIELD RESEARCH IN SOCIAL AND COMMUNITY INTERVENTIONS (3cr.)

PSY7502 RECHERCHE APPLIQUÉE AUX INTERVENTIONS SOCIALES ET COMMUNAUTAIRES (3cr.)

EDU6299 PROGRAM EVALUATION: THEORY AND CONTEMPORARY ISSUES (3cr.)
EDU6699 ÉVALUATION DE PROGRAMMES : THÉORIE ET PROBLÈMES ACTUELS (3cr.)

EDU5504 SÉMINAIRE D'INTÉGRATION EN ÉVALUATION DE PROGRAMMES (3cr.)

OR

PSY5104 INTEGRATION SEMINAR IN PROGRAM EVALUATION (3cr.)

Electives (3 credits to be chosen from the following)

CRM6342 COMMUNITY INTERVENTION IN CRIMINOLOGY (3cr.)

CRM6742 INTERVENTION COMMUNAUTAIRE (3cr.)

EDU5391 INTERACTION OF RESEARCH AND PRACTICE (3cr.)

EDU5399 DEVELOPMENT OF ASSESSMENT AND EVALUATION INSTRUMENTS (3cr.)

EDU5461 MANAGING CHANGE IN EDUCATIONAL ORGANIZATIONS (3cr.)

EDU5662 PLANIFICATION ET GESTION DE PROGRAMMES D'ÉTUDES

EDU5799 ÉLABORATION D'INSTRUMENTS D'ÉVALUATION (3cr.)

EDU6191 METHODS AND INTERPRETATION OF QUANTITATIVE RESEARCH II (3cr.)

EDU6591 MÉTHODES ET INTERPRÉTATION EN RECHERCHE DE TYPE QUANTITATIF II (3cr.)

EDU6433 PROGRAM IMPLEMENTATION IN EDUCATIONAL ORGANIZATIONS (3cr.)

EDU7190 QUALITATIVE RESEARCH I (3cr.)

EDU7590 RECHERCHE QUALITATIVE I (3cr.)

PSY5120 ADVANCED STATISTICS IN PSYCHOLOGY: UNIVARIATE DATA ANALYSIS (3cr.)

PSY5520 STATISTIQUE AVANCÉE EN PSYCHOLOGIE : ANALYSE DE DONNÉES UNIVARIÉES (3cr.)

PSY5121 ADVANCED STATISTICS IN PSYCHOLOGY: MULTIVARIATE DATA ANALYSIS (3cr.)

PSY5521 STATISTIQUE AVANCÉE EN PSYCHOLOGIE : ANALYSE DE DONNÉES MULTIVARIÉES (3cr.)

PSY6116 COMMUNITY PSYCHOLOGY (3cr.)

PSY6516 PSYCHOLOGIE COMMUNAUTAIRE (3cr.)

The University of Ottawa

Faculty of Philosophy: *Graduate Certificate in Public Ethics*

- Overview:

The Faculty of Philosophy at Saint Paul University, in collaboration with the Faculties of Theology and of Human Sciences, offers a Graduate Certificate in Public Ethics (Cert.Pub.Eth). The graduate certificate is granted jointly by the Senates of Saint Paul University and the University of Ottawa under the terms of the federation agreement between them.

The program is based on course and seminar work in public ethics and is especially attractive to mid-career professionals wishing to reflect and build on their professional experience and previous studies.

To provide academic training in public ethics and foster the development of analytical skills enabling professionals (e.g., managers, political analysts, consultants, parliamentary assistants, jurists, health care professionals, administrators of agencies, information specialists) to articulate coherently the contents of an ethical debate and to clarify issues that may arise, with the aim of shaping discussions and policies at the regional, national and international levels.

- Admission criteria:

To be admitted to the graduate certificate program, candidates must:

Have obtained an honours bachelor's degree, or the equivalent, in philosophy, ethics, political science, governance studies, public policy, or in another discipline judged relevant, with a minimum average of 70% (B);

Submit two letters of reference, at least one of which must be from a professor;

Be proficient in at least one of Canada's two official languages and have a good enough reading knowledge of the other language to be able to read texts in that language.

In exceptional cases, candidates who do not hold the equivalent of an honours bachelor's degree as defined above may be admitted to the graduate certificate program, provided they can demonstrate, to the satisfaction of the Admissions Committee, that they possess adequate knowledge and professional experience (for example, experience as a policy analyst in the public sector). In some cases, such candidates may be required to complete qualifying courses in pertinent disciplines prior to admission.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The Graduate Certificate in Public Ethics program consists of 15 credits of course and seminar work. It is normally a one-year program, with the year divided into two sessions of full-time study. The program can also be taken on a part-time basis. All students, whether full- or part-time, must

complete all certificate requirements within three years of having first registered in the program. Serious efforts are made to accommodate the schedules of part-time students.

Core Courses (6 cr.)

EPE6300 MAIN ETHICAL THEORIES (3cr.)
EPE6310 SEMINAR IN PUBLIC ETHICS (3cr.)

Electives (9 cr.)

Three courses (9 cr.) chosen from among the following:

CMN5115 COMMUNICATION ETHICS (3cr.)

ECS5304 ETHICAL DIMENSIONS OF CONFLICT (3cr.)

PAP6102 DEMOCRATIC GOVERNANCE (3cr.)

EPE6301 MILITARY AND PEACEKEEPING ETHICS (3cr.)
EPE6302 ENVIRONMENTAL ETHICS (3cr.)
EPE6303 ETHICS AND HUMAN RIGHTS (3cr.)
EPE6304 ETHICS AND INTERNATIONAL DEVELOPMENT (3cr.)
EPE6305 ETHICS AND HEALTH CARE (3cr.)
EPE6306 ETHICS, PRIVACY AND INFORMATION (3cr.)
EPE6320 SELECTED TOPICS IN ETHICS (3cr.)
EPE6901 LECTURES DIRIGÉES / DIRECTED READINGS (3cr.)

SOC7550 RELATIONS INTERETHNIQUES: EXAMEN CRITIQUE DES THÉORIES ET DES RECHERCHES (3cr.)

The University of Ottawa

Telfer School of Management and School of Political Studies: *Graduate Certificate in Public Management and Governance*

- Overview:

The primary aim of the graduate certificate is to provide students with both a strong conceptual foundation for understanding and analyzing problems of governance and an effective tool-kit of skills and techniques required to operate in an increasingly complex managerial and organizational environment.

Governance is about effective coordination and decision-making in a world where knowledge and power are increasingly distributed. In this perspective, governance challenges are increasingly important to public, private and civic organizations - both within such organizations and across them.

This program was created for students who wish to increase their skills and knowledge in public management by adding an interdisciplinary dimension via courses from the Telfer School of Management and the School of Political Studies.

- Admission criteria:

Candidates must meet the normal requirements for admission in a master's level program at the University of Ottawa (namely, an honour's baccalaureate degree, or its equivalent, with at least second class "B" standing from a recognized post-secondary institution). Advanced standing for up to 4.5 credits will be given to qualified students in recognition of comparable studies as determined by the Program Committee.

Candidates are required to submit a resume as well as a narrative statement. In the narrative statement, we recommend that they identify and explain the reasons why this program is of interest to them, and highlight elements of their current or past professional experience (paid or voluntary) that may have given them some insights or sparked interest in public management and/or governance. The candidates may also wish to identify what they hope to gain from the certificate in terms of learning and/or endeavours that they believe the certificate will better position them to undertake. The statement should be between 300 and 500 words in length.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

The graduate certificate requirements consist of 15 credits, with 12 credits of core courses and three credits for a project, including a written report on an applied governance issue.

Core courses (12 credits)

ADM6209 GOVERNANCE (1.5cr.)
ADM6210 MODELS OF PUBLIC, PRIVATE AND CIVIC GOVERNANCE (1.5cr.)
ADM6211 CONSULTATION AND MULTI- STAKEHOLDER NEGOTIATION (1.5cr.)
ADM6212 GOVERNANCE AND THE DIGITAL IMPERATIVE (1.5cr.)

PAP6101 GLOBALIZATION AND CONTINENTAL INTEGRATION (3cr.)
PAP6102 DEMOCRATIC GOVERNANCE (3cr.)

Project (3 credits)

ADM6901 PROJET / PROJECT (3cr.)
OR
PAP6901 PROJET / PROJECT (3cr.)

The University of Ottawa

Faculty of Engineering: *Graduate Certificate in Systems Science*

- Overview:

The Systems Science Program provides qualified students with the opportunity for master's-level study in a broad range of areas that emphasize transdisciplinary work in the context of general systems analysis. The emphasis in Systems Science is on the development of analytical and integration skills for use in the resolution of complex applied problems that require a broad-based perspective.

Many professors in Information Technology and Engineering, Mathematics and Statistics, Administration, Economics, and other disciplines are active in the Systems Science program as instructors, student advisers and thesis directors. Others are interested in ongoing Systems Science activities including the seminar series, and Systems Science applications days. Their areas of research, both theoretical and applied, span a wide variety of fields in operations research, deterministic and probabilistic modelling, optimization, computer science, information systems, control, and economic modelling.

The graduate program in Systems Science is specially designed for those who are interested in the analysis and modelling (mathematical and computer) of natural and man-made systems. It provides the professional with skills and knowledge required to understand, control, predict and optimize behaviour in a variety of fields from engineering and computer science to management and applied economics. An interdisciplinary program of the Faculty of Graduate and Postdoctoral Studies, it is supervised by a Committee composed of representatives from the Department of Economics, the School of Information Technology and Engineering, the Telfer School of Management, and the Department of Mathematics and Statistics.

- Admission criteria:

A four-year undergraduate degree in Computer Science, Economics, Engineering, Mathematics, Operations Research, Science or a related area with at least a "B" average is required for admission to the Program.

Undergraduate courses in probability, linear algebra, differential equations and computer programming are prerequisites for the core courses of the Program. Details regarding the level and content of prerequisite courses are included in the information package which is sent to all applicants. If a student lacks any of these courses, he will normally be required to complete them as a condition of admission. Entering students who lack the required undergraduate preparation may be permitted to enter a qualifying program.

Admission is offered either on a full-or part-time basis. Students admitted full-time to the master's are required to register full-time for three sessions. Specific admission requirements are listed at the beginning of the description of each stream.

Students should specify on the application form whether they are applying for the graduate certificate, the MSc in systems science or the master's in systems science.

Students are normally admitted initially to the graduate certificate and are admitted to the master's only upon successful completion of the core courses and a positive recommendation from the program committee.

Applicants to the MSc in systems science must submit a research outline not to exceed 350 words and clearly select the program with thesis on their application form.

Applicants to the master's in systems science are invited to include with their application a letter of intent stating their motivation for studying systems science and outlining their preferences for key areas of study in the program. They must clearly select the program without thesis on their application form.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

Graduate Certificate in Systems Science - (15 credits)

All students must complete 15 credits as follows:

Core courses

Four from among the following five courses:

SYS5100 SYSTEMS ENGINEERING (3cr.)
SYS5110 FOUNDATIONS OF MODELLING AND SIMULATION (3cr.)
SYS5120 APPLIED PROBABILITY (3cr.)
SYS5130 SYSTEMS OPTIMIZATION AND MANAGEMENT (3cr.)
SYS5140 ECONOMIC SYSTEM DESIGN (3cr.)

and

SYS5160 SYSTEMS INTEGRATION (3cr.)

The Graduate Certificate may be completed by an adequately prepared full-time student in three sessions.

The University of Ottawa

School of Information Technology and Engineering: *Graduate Certificate in Technology Project Management*

- Overview:

The graduate certificate is awarded upon successful completion of 15 credits. It is offered mainly in English. Students who meet the admission requirements for the Master of Engineering Management program and who subsequently decide to pursue that degree, would have to complete an additional 15 credits.

- Admission criteria:

To be considered for the program, applicants must have successfully completed a four-year bachelor's degree in engineering or science with a least a 70 per cent (B) cumulative grade point average (CGPA), calculated in accordance with FGPS guidelines. Admission to the program is very competitive.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

- Certificate completion requirements:

Students must successfully complete 15 credits. The passing grade in all courses is C+. Failure in 6 credits leads to withdrawal from the program.

Six credits are compulsory:

ADM6260 PROJECT MANAGEMENT I (1.5cr.)
ADM6261 PROJECT MANAGEMENT II (1.5cr.)
EMP5118 TECHNOLOGY PROJECT MANAGEMENT PRACTICE (3cr.)

Six credits must be chosen from the following list:

MBA5330 ORGANIZATIONAL BEHAVIOUR AND HUMAN RESOURCES MANAGEMENT (3cr.)
MBA5320 STRATEGIC MARKETING MANAGEMENT (3cr.)
MBA5241 MANAGERIAL ACCOUNTING INFORMATION AND DECISIONS (1.5cr.)
MBA5250 INTRODUCTION TO CORPORATE FINANCE (1.5cr.)
MBA5270 INFORMATION AND COMMUNICATION TECHNOLOGIES FOR MANAGERS (1.5cr.)
ADM6276 ENTERPRISE RESOURCE PLANNING SYSTEMS MANAGEMENT (1.5cr.)

Three credits must be chosen from the following list:

EMP5101 INDUSTRIAL ORGANIZATION (3cr.)
EMP5102 SYSTEMS ENGINEERING AND INTEGRATION (3cr.)
EMP5103 RELIABILITY, QUALITY AND SAFETY ENGINEERING (3cr.)
EMP5109 TOPICS IN ENGINEERING MANAGEMENT (3cr.)
EMP5999 PROJECT IN MANAGEMENT OF TECHNOLOGY (3cr.)
(Students are strongly encouraged to choose EMP 5999.)

The program committee may approve replacement of up to three credits of subset B with alternative graduate courses in management or engineering.

Seminar Series:

Students are strongly encouraged to attend a seminar series to be offered in a variety of topics including: Continuous Risk Management, IT Procurement, and Software Rollout.

The University of Ottawa

Faculty of Arts: *Graduate Certificate in Organizational Communication*

- Overview:

The graduate certificate in organizational communication program focuses on the mechanisms of internal and external communication in private and public organizations. Teaching and research issues can relate to topics such as group and interpersonal interactions, media relations and new communication and information technologies. Organizations studied may function at the local, regional, national or international levels.

The graduate certificate program is intended to meet the needs of qualified students who plan to apply the concepts learned in a practical context. The knowledge acquired in the program will facilitate their effective functioning in organizations and give them additional tools to advance in their careers.

- Admission criteria:

Candidates must have an honours bachelor's degree with a specialization or major in communication (or the equivalent) with a minimum average of 70% (B), calculated in accordance with FGPS guidelines. Candidates with an honours bachelor's degree in another discipline with a 70% (B) average will also be considered. Such candidates may be asked to take additional courses.

The program is offered in English and in French. Students must understand, speak and write either English or French fluently. Proof of proficiency may be required.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree.

Students registered in the graduate certificate program can request to transfer to the master's in communication or to a related master's program.

- Certificate completion requirements:

The graduate certificate program requires 15 credits, of which 9 are compulsory and 6 are electives. The passing grade in all courses is C+. It is possible to retake a failed course. Students who fail six credits or the same course twice, must withdraw from the program.

Compulsory courses (9 credits):

CMN5105 CONTEMPORARY COMMUNICATION ISSUES (3cr.)
CMN5135 COMMUNICATION MANAGEMENT (3cr.)
CMN5140 COMMUNICATION, GLOBALIZATION AND CHANGE (3cr.)

Electives (6 credits) to be chosen from the following:

CMN5120 PUBLIC COMMUNICATION CAMPAIGNS: THEORIES AND APPLICATIONS (3cr.)
CMN5125 PUBLIC COMMUNICATION CAMPAIGNS: EVALUATION (3cr.)
CMN5130 DIVERSITY IN THE WORKPLACE : COMMUNICATION CHALLENGES (3cr.)
CMN5145 ALTERNATIVE COMMUNICATION PRACTICES IN CONFLICT RESOLUTION IN ORGANIZATIONS (3cr.)
CMN5150 KNOWLEDGE MANAGEMENT (3cr.)
CMN5155 ADVANCED RESEARCH IN TRADITIONAL AND EMERGING MEDIA (3cr.)
CMN5160 POLITICAL USES OF MEDIA (3cr.)
CMN5170 INTERNATIONAL COMMUNICATION (3cr.)
CMN5195 SPECIAL TOPICS (3cr.)
CMN5900 ÉTUDES DIRIGÉES EN COMMUNICATION / DIRECTED STUDIES IN COMMUNICATION (3cr.)

No more than three credits of 4000-level courses may be included:

CMN4128 ORGANIZATIONAL COMMUNICATION CONSULTING (3cr.)
CMN4129 FACILITATION OF CHANGE IN ORGANIZATIONS (3cr.)
CMN4131 NEGOTIATION AND MEDIATION (3cr.)
CMN4148 COMMUNICATION AND GOVERNMENTAL ORGANIZATIONS (3cr.)
CMN4168 COMMUNICATION AND INTERNATIONAL DEVELOPMENT (3cr.)

The University of Ottawa

Telfer School of Management: *Graduate Certificate in E-Commerce*

- Overview:

Electronic Commerce is an emerging economic sector experiencing exponential growth. Expertise in electronic commerce must combine advanced knowledge of information technology, business administration and law, all disciplines in which the University of Ottawa offers graduate programs. The graduate certificate in electronic commerce provides advanced expertise explicitly in e-commerce.

The certificate is based primarily on the expertise and resources within the master's programs in computer science and business administration, while drawing on the expertise and specialized courses offered in a number of other disciplines. The certificate is multidisciplinary and modular: it consists of common core courses, as well as optional courses. The optional courses will focus either on technology, business administration, law, or mathematics.

On completion of the certificate, qualified students meeting admission requirements may apply to one of the master's programs, in particular the master of computer science or the MBA. Credit is granted for relevant courses completed in the certificate. The number of credits remaining are assessed individually in relation to the student's chosen master's program.

- Admission criteria:

Admission is competitive. Minimum requirements are a bachelor's degree with honours in computer science, computer engineering, software engineering or electrical engineering, or an equivalent degree in engineering or business information, with a minimum average of 75 per cent (B+). The degree must cover the following areas: data structures, file management, operating systems, database management systems and systems programming.

The admissions committee may recommend candidates who do not meet the above requirements but who meet the minimum requirements of the Faculty of Graduate and Postdoctoral Studies and who demonstrate knowledge of these subjects through relevant training and/or experience.

Exceptionally, admission may be offered to candidates who are required to complete a number of additional qualifying courses prior to taking any of the courses specified for the certificate. A minimum grade of B+ will be required in each of the additional courses.

A maximum of three credits in equivalencies or advanced standing may be granted. To be eligible, the credits in question must not have counted towards the requirements of a previous diploma, certificate, or degree. Candidates who have already successfully completed some of the compulsory credits may be allowed to replace those credits with elective credits.

Students registered in the graduate certificate program can request to transfer to a related master's program.

Work Term:

The Work Term will extend over a period of four (4) months. The student is required to sign a contract with the Co-operative Education Programs (CO-OP) and therefore cannot withdraw. Once the contract is signed, the Co-operative Education Programs representative will arrange a meeting with the students to explain the procedures for the Work Term. Employers who are willing to hire Work Term students will interview candidates.

Prerequisites:

The candidates must either be registered in or have successfully completed CSI 5380 prior to the commencement of the Work Term.

- Certificate completion requirements:

The certificate requirements are as follows: 12 credits of core courses and six credits of electives. The passing grade in all courses is C+. Students who fail 4.5 credits or more, or the same course twice, must withdraw from the program.

Core courses (12 credits):

ADM6274 ELECTRONIC BUSINESS STRATEGIES (1.5cr.)

ADM6420 ELECTRONIC MARKETING (1.5cr.)

DCL7301 REGULATION OF INTERNET COMMERCE (3cr.)

CSI5380 (COMP 5405) SYSTEMS AND ARCHITECTURES FOR ELECTRONIC COMMERCE (A, S) (3cr.)

CSI5389 (COMP 5401) ELECTRONIC COMMERCE TECHNOLOGIES (3cr.)

Optional courses (six credits) to be chosen from the following:

ADM6275 BUSINESS PROCESS TRANSFORMATION (1.5cr.)

ADM6276 ENTERPRISE RESOURCE PLANNING SYSTEMS MANAGEMENT (1.5cr.)

ADM6279 SOCIO-TECHNICAL CHANGE (1.5cr.)

CSI5105 (COMP 5406) NETWORK SECURITY AND CRYPTOGRAPHY (3cr.)

CSI5115 (COMP 5503) DATABASE ANALYSIS AND DESIGN (3cr.)

CSI5175 MOBILE COMMERCE TECHNOLOGIES (3cr.)

CSI5387 (COMP 5706) DATA MINING AND CONCEPT LEARNING (3cr.)

DCL7302 REGULATION OF INTERNET COMMUNICATIONS (3cr.)

DCL7303 ELECTRONIC COMMERCE PRACTICE WORKSHOP (3cr.)

EBC6180 ELECTRONIC HUMAN RESOURCES MANAGEMENT (1.5cr.)

EBC6230 ELECTRONIC SUPPLY CHAIN TECHNOLOGIES AND APPLICATIONS (1.5cr.)

ELG5121 (EACJ 5201) MULTIMEDIA COMMUNICATIONS (3cr.)

EBC6900 STAGE INTERNATIONAL / INTERNATIONAL WORK TERM (3cr.)

or

CSI5903 STAGE EN COMMERCE ÉLECTRONIQUE/ ELECTRONIC COMMERCE WORK TERM (3cr.)

or

CSI5904 PROJET DE RECHERCHE AVANCÉ EN COMMERCE ÉLECTRONIQUE / GRADUATE PROJECT IN ELECTRONIC COMMERCE (3cr.)

The University of Toronto

Faculty of Information: *Graduate Diploma of Advanced Study in Information Studies*

- Overview: to advance professional standing, develop a specialization or redirect a career; designed to build upon existing knowledge, experience, previous education and interests; full-time or part-time study; program is tailored to suit individual needs; courses are selected with Graduate coordinator; courses taught on campus; eight half-credit courses.
- Admission criteria: Master's of Information degree or equivalent with overall B+ average; English competency; computer competency and well versed in current information technologies e.g. creating electronic presentations, composing web pages, designing spreadsheets, searching e-resources such as databases and online catalogues.
- Diploma completion requirements: six courses must be chosen from courses offered in the Master of Information degree program; must complete diploma within three years.

Factor-Inwentash Faculty of Social Work: *Advanced Graduate Diploma in Social Service Administration*

- Overview: unique social work perspective on management in social service organizations, coupled with emphasis on evidenced-based practice and research; program designed to be accessible to candidates working full time; courses are offered in modular format one full day per month; four core courses and two electives, OR one elective and a major project; full-time or part-time study.
- Admission criteria: master's degree in social work or a related field; at least three years of experience as a supervisor, manager and director with a social service organization.
- Diploma completion requirements: pass all six half-credit courses; must complete within five years.

The University of Toronto

U of T Mississauga and the Canadian Institute of Chartered Accountants (CICA)⁴: *Graduate Diploma in Investigative & Forensic Accounting*

- Overview: joint graduate diploma; provide professional accountants with skills, knowledge and insights needed to respond effectively to investigating fraud and financial disputes; program concentration also focuses on the reports, advice and evidence clients, lawyers and courts need to resolve situations relating to possible or pending civil or criminal legal proceedings; 10 courses taken over two-years sequentially; courses taken through distance-education, two one-week residency periods are required.
- Admission criteria: honours degree in commerce, business administration or accounting with a final-year GPA of a mid B; two years of relevant experience in accounting.
- Diploma completion requirements: pass all 10 courses and two residency periods; must complete program within six-years.

⁴ CICA represents Canada's CA profession both nationally and internationally; their mission is to foster public confidence in the CA profession by acting in the public interest and helping members excel.

The University of Waterloo

Faculty of Engineering: *Graduate Diploma in Electric Power Engineering*

- Overview: provide advanced-level training, skill development and education to power engineering professionals currently employed; created in part to develop a specialized manpower base in Canada; students choose six courses out of 12; courses offered online through distance education; full-time or part-time study.
- Admission criteria: honours degree with at least a B+ standing; competency in English.
- Diploma completion requirements: completion of six courses with a minimum average of 60 per cent and a total cumulative average of 70 per cent.

Waterloo Institute for Social Innovation and Resilience (WISIR): *Graduate Diploma in Social Innovation**

- Overview: joint venture between the Faculty of Environment and Faculty of Arts; nine-month program; aims to educate professionals on complex social and environmental issues; interdisciplinary courses are organized into eight modules; modules taught online as well as inperson; inperson modules are held in Waterloo and Toronto; each year will have a theme; the focus of year one is aging, mental health and the experience of new Canadians.
- Admission criteria: open to individuals in government, social and business sectors whose professional responsibilities relate to the annual theme.
- Diploma completion requirements: none as of February 1, 2011.

*Pending approval from the Ontario Council on Graduate Studies, February 1, 2011

York University

Schulich School of Business: *Post-MBA Graduate Diploma in Advanced Management*

- Overview:

The Schulich School of Business encourages management graduates to continue to keep abreast of new developments in their profession. While other schools have chosen to mount brief "refresher" programs for their graduates, Schulich has opted instead to support more in-depth study through full-term (13-week) or half-term (6-week) MBA elective courses.

Students are encouraged to select electives in order to broaden knowledge of a specific specialization (e.g. add an international perspective to existing skills and knowledge in a specific functional area such as marketing or finance); deepen knowledge of a specific area (e.g. add nonprofit organizations and the public sector to existing skills and knowledge of strategic planning for private sector firms); or develop expertise in a new area (e.g. a management function such as organization studies; an industry such as real estate and infrastructure); or a management topic such as business and the environment.

FULL-TIME STUDY (Main Campus)

Normal full-time load is 10.5 - 15.0 credit-hours of courses per term

For fee-paying purposes, enrolment in any given term in 9.0 or more credit-hours of courses constitutes full-time study

PART-TIME STUDY (Main Campus)

Normal part-time load is 6.0 credit-hours of courses per term

For fee-paying purposes, enrolment in any given term in less than 9.0 credit-hours of courses constitutes part-time study

- Admission criteria:

Open to individuals who hold an MBA degree from a recognized business school. To qualify, the MBA program must be a two year, full-time program or equivalent (60 credits) and cover all the material presented in the one year Schulich MBA program. The Post MBA diploma students take courses in Year 2 of the Schulich MBA program.

Academic GPA of a B.

- Diploma completion requirements:

Overall grade point average (GPA) of 4.4 (B-), excluding failures.

Full-time students have a maximum of three consecutive terms to complete the requirements for the Post-MBA Diploma in Advanced Management. Part-time students must complete the requirements in a maximum of six consecutive terms.

York University

Faculty of Education: *Graduate Diploma in Early Childhood Education*

- Overview:

The Graduate Diploma in Early Childhood Education gives formal recognition to those graduate students who have undertaken concentrated research and study concerning the education of young children (birth to age eight). Master's and doctoral students may specialize in early childhood education and have this specialization noted on their transcripts.

The diploma can be taken concurrently with the Master's (MEd) or Doctoral (PhD) degrees or as a stand-alone non-degree diploma.

- Admission requirements:

Applicants are required to have an acceptable undergraduate degree with at least a B+ average.

- Diploma completion requirements:

Concurrent Option:

Core course EDUC 5540 3.0 Educating Young Children. This course constitutes a requirement in addition to the course requirements of the Master's or Doctoral degree programs.

Students must also successfully complete, as part of their MEd or PhD degree, three half courses from the following approved listing:

EDUC 5401 3.0 Education and Childhood in Canadian History
EDUC 5340 3.0 Adolescent & Children's Literature - EDUC 5530 3.0 Emergent Literacy
EDUC 5545 3.0 The Reggio Emilia Approach to Early Childhood Education
EDUC 5550 3.0 Play, Language and learning
EDUC 5725 3.0 Critical Perspectives on the Theory and Research on the Behaviour of Young Children
EDUC 5845 3.0 Mathematics and Sciences Understanding in Early Childhood

Students must write their major research project, thesis or dissertation on a topic in early childhood education as approved by the Co-ordinator of the Graduate Diploma in Early Childhood Education.

With the permission of their supervisor, students may submit up to two half courses relevant to early childhood education offered in graduate programmes at York or other universities.

Stand-Alone/ Direct Entry Option:

Core course EDUC 5540 3.0 Educating Young Children.

Students must successfully complete four half courses from the following approved listing:

EDUC 5401 3.0 Education and Childhood in Canadian History
EDUC 5340 3.0 Adolescent & Children's Literature

EDUC 5530 3.0 Emergent Literacy
EDUC 5545 3.0 The Reggio Emilia Approach to Early Childhood Education
EDUC 5546 3.0 Pedagogical Documentation in Early Childhood Education
EDUC 5550 3.0 Play, Language and learning
EDUC 5725 3.0 Critical Perspectives on the Theory and Research on the Behaviour of Young Children
EDUC 5845 3.0 Mathematics and Sciences Understanding in Early Childhood

With the permission of their advisor, students may submit up to two half courses relevant to early childhood education offered in graduate programs at York or other universities.

York University

Schulich School of Business: *Graduate Diploma in Arts & Media Administration*

- Overview:

Schulich offers Canada's only MBA with a specialization in arts and media administration. The specialization is suitable for students who have either work experience in the cultural sector or an undergraduate education in areas of the arts such as music, theatre, dance or the visual arts, or areas of the cultural media such as film studies or literary studies.

Schulich graduates from the arts and media administration specialization fill such positions as: general manager and marketing and development directors of major performing and visual arts organizations; cultural policy analysts at all levels of government; owners of entrepreneurial endeavours in the cultural sector; and business managers in the film industry.

This diploma can only be taken concurrently with a Schulich graduate degree (MBA).

- Admission requirements:

Students must be enrolled as a graduate student at the Schulich School of Business before applying to Graduate Diploma program.

- Diploma completion requirements:

12.0 credit-hours of elective courses consisting of:

3.0 credit-hours of the prerequisite course

(MGMT 6100 3.00 Strategy Field Study is recommended for a cultural sector organization)

9.0 or more credit-hours of recommended courses

ARTM 6300 3.00 Cultural Policy

ARTM 6301 3.00 Issues in Arts and Cultural Management

ARTM 6330 3.00 Communications Policy

ARTM 6340 3.00 Managing in the New Broadcast World

ARTM 6350 3.00 The Business of Creativity in the Cultural Sector

A minimum 12-week full-time internship in a cultural sector organization.

Diploma must be completed within one term of completing graduate program degree requirements.

Students must satisfy both Graduate Diploma (above) and MBA requirements.

York University

York Centre for Asian Research: *Graduate Diploma in Asian Studies*

- Overview:

The Graduate Diploma in Asian Studies (GDAS) answers the identified need among students who are looking for more Asian content in their studies, and to interest prospective employers who are looking for graduates with certifiable expertise in Asian Studies. It is an interdisciplinary program that offers students a challenging graduate diploma degree with promising career opportunities in the broad area of Asian development.

Given the program's emphasis on non-spatially-contained definition of Asian studies, diaspora, identity, and transnationalism among immigrant communities in Canada, students will acquire a broad knowledge of contemporary Asian research and issues.

Awarded concurrently with a Masters or Doctoral degree.

- Admission requirements:

All candidates for the Graduate Diploma in Asian Studies must first be admitted to a graduate program at York University. They may register for the Graduate Diploma in Asian Studies once their master's or Doctoral program of study has been clearly defined, normally before the course work has been completed.

- Diploma completion requirements:

Students are required to complete the designated core course:

Geography 5700 3.0/Social Anthropology 5500 3.0/Sociology 6745 3.0: The Making of Asian Studies: Critical Perspectives

Students are also required to successfully demonstrate or complete: 1) Competency in one Asian language 2) Two research papers with clear Asian content 3) Fieldwork and other experience in the Asian geographic region

In addition, graduate students can take advantage of a range of courses in Asian Studies available in the departments of Geography, Humanities, History, Political Science, Social Anthropology and Sociology.

Each student has a graduate diploma committee of two faculty members of the graduate diploma to advise and assist them in the completion of requirements. For example, the graduate diploma committee helps students in finding institutional affiliations in Asia, and in finding Asia-related readings to enable them to write papers with Asian content.

York University

Schulich School of Business: *Graduate Diploma in Business & the Environment*

- Overview:

This Diploma provides the perspectives, understanding, tools, skills and recognition for York Master's graduates to become leaders in business and the environment.

Students are eligible to receive this designation in conjunction with the completion of either a Master's or Doctoral graduate degree.

- Admission criteria:

Students must be enrolled as a graduate student at the Schulich School of Business before applying to Graduate Diploma program.

- Diploma completion requirements:

The course requirements for the Diploma are the completion of 12.0 credit hours in designated Business & Sustainability courses.

MBA students are also required to incorporate an environmental or sustainability component into their Management 6100: Strategy Field Study, while students in the MES program are required (in the MES III stage of their program) to undertake their major paper, major project, or thesis with a strong business and environment focus.

In addition to the course requirements, students must complete an internship of at least 12 weeks in a business or agency with a focus on business and the environment.

York University

Faculty of Fine Arts: *Graduate Diploma in Curatorial Studies in Visual Culture*

- Overview:

Taken concurrently with the Masters of Art History program.

The Masters of Art History normally requires two years of full-time study. Part-time students, especially those with experience in the discipline, are encouraged to apply. Where possible, students should be prepared to devote themselves to full-time study at least during their first year in the Graduate Programme.

- Admission requirements:

Must be admitted to the Masters of Art History with an Honours degree. It is preferable that the honours degree is in art history, the student has studio experience and possesses an academic average of a B.

- Diploma completion requirements:

Students wishing to pursue the Graduate Diploma in Curatorial Studies in Visual Culture must successfully complete the following requirements:

One half-course on the methods, theory and historiography of art history (Art History 5100 3.0)

Three half-courses comprised of non-integrated graduate seminar.

Art History 5170 3.0: Museum and Gallery

Art History 5175 3.0: Curatorial Practice

Art History 5190 3.0: Apprenticeship I.

Three half-courses (or equivalent) electives in art history.

One half-course from an approved cognate field.

An examination for a reading knowledge of French.

A non-credit major research paper seminar, including a major research paper, 35 to 50 pages in length which demonstrates the student's ability to do original research, normally focusing on a Canadian topic (Canadian art, or art in Canada). The research paper topic must be approved by the candidate's research committee by the end of the second term at the latest.

Students must also complete all course requirements of the Masters of Art History program.

York University

Departments of Political Science, Environmental Science, Law, Sociology and Interdisciplinary Studies:
Graduate Diploma in Democratic Administration

- Overview:

This program of study allows students in appropriate graduate programs at York University to specialize formally in the area of Democratic Administration, and to be awarded a Graduate Diploma in Democratic Administration. The diploma is awarded concurrently with the master's or Doctoral degree for which the student is registered. The diploma aims to equip students with both the analytical and practical insights needed to help build more democratic and responsive institutions. The diploma is geared to both new and returning students who aspire to leadership positions in popular sector institutions, from trade unions and non-profitable charities, to state administration and quasi-governmental organizations.

- Admission criteria:

Candidates for the diploma must first be admitted to the Faculty of Graduate Studies as candidates for a master's or Doctoral degree in one of the participating graduate programs. Candidates formally register for the diploma following registration for their degree program, at the time they define their program of studies. The diploma is an interdisciplinary one, open to students in any relevant graduate program including, for example, Environmental Studies, Law, Political Science, Sociology and Business Administration.

- Diploma completion requirements:

Students must complete the program requirements of the degree for which they are registered and each student must also satisfy the following requirements:

For all students *except* those *masters* students registered with the Schulich School of Business or the Faculty of Environmental Studies:

Write a major research paper, thesis or dissertation on a topic related to democratic administration approved by the Chair of the Executive Committee of the Graduate Diploma in Democratic Administration.

Successfully complete Political Science 6155 3.0: Democratic Administration (core course), the required course for all students registered for the diploma. This course will be open to students outside of the Political Science Graduate Program who are accepted for the diploma. This course is an additional requirement, over and above regular degree requirements and may not be counted toward the course requirement for the master's or Doctoral degrees.

For masters students registered with the Schulich School of Business and Environmental Studies:

Write a research paper beyond the normal degree requirements on a topic related to democratic administration approved by the Chair of the Executive Committee of the Graduate Diploma in Democratic Administration.

Successfully complete Political Science 6155 3.0: Democratic Administration (core course), the required course for all students registered for the diploma. This course will be open to students outside of the Political Science Graduate Program who are accepted for the diploma. This course is *not* an additional requirement over and above regular degree requirements for MES and MPA/ MBA students.

York University

Faculty of Education and Faculty of Environmental Studies: *Graduate Diplomas in Environmental/ Sustainability Education*

- Overview:

The concurrent and stand-alone Graduate Diplomas in Environmental/Sustainability Education are designed to meet longstanding graduate student interest, and help to educate teachers in the field of environmental and sustainability education, in both the public and private education systems, and in other organizations and institutions committed to environmental and sustainability education.

The degree concurrent graduate diploma, offered in both programs, formalizes already established areas of environmental/sustainability education within Doctoral and masters degrees.

The direct-entry, stand-alone graduate diploma, is offered only within the Graduate Program in Education. It is not offered in conjunction with a degree. This option is designed to provide opportunities for graduate level study of theory and research in environmental/sustainability education to practising teachers and school administrators, to people working in community organizations and cultural institutions, and to advocacy groups.

Concurrent Diploma Option:

Registration for the concurrent diploma occurs *after* the candidate has been admitted to the masters or Doctoral degree in the Graduate Programs in Education or Environmental Studies. Any student admitted to the MEd., MES or PhD degree may register for the concurrent Graduate Diploma in Environmental/ Sustainability Education within the first year of the degree program in which they are registered, if their interest corresponds to this subject area

- Admission criteria:

Applicants are required to have an acceptable undergraduate degree with at least a B+ average.

Applicants are also expected to submit any other necessary documents that are required pieces in the MEd. Program application process.

- Diploma completion requirements - Education:

Four half courses in environmental/sustainability education (one half course is in addition to the course requirements for the MEd. and PhD).

Two of these courses are required: Environmental Studies 6140 3.0 and Education 5444 3.0

PhD or MEd. thesis or major research project on environmental/ sustainability education topic.

- Diploma completion requirements - Environmental Studies:

Four half courses in environmental/sustainability education (one half course in addition to basic MES or PhD requirements.)

Two of these courses are required: Environmental Studies 6140 3.0 and Education 5444 3.0

Thesis or research project on environmental/sustainability education topic.

Direct Entry Option:

The direct-entry graduate diploma is offered in the Graduate Program in Education only, as a sub-specialization within the field of *Language, Culture, and Teaching*. This diploma option permits part-time study.

- Admission criteria:

The admissions requirements for the direct-entry Graduate Diploma in Environmental/ Sustainability Education are the same as requirements for entry into the MEd. Program. Normally, applicants are required to have an acceptable undergraduate degree with at least a B average. Admission to the direct-entry graduate diploma are subject to approval by the Graduate Program in Education Graduate Diploma Committee.

- Diploma completion requirements - Education:

Five half courses including the two required courses Environmental Studies 6140 3.0 and Education 5444 3.0.

In addition to the two required courses, students must successfully complete three half courses from the approved list.

York University

The Canadian Centre for German and European Studies: *Graduate Diploma in German & European Studies*

- Overview:

York University's Graduate Diploma in German & European Studies is open to graduate students who are enrolled in an MA or PhD program in fields such as International Business, Economics, Education, Environmental Studies, Film, History, Humanities, Law, Linguistics, Political Science, Sociology, and Social & Political Thought. This is a concurrent diploma.

The diploma offers the opportunity to develop expertise in the interdisciplinary field of German and European Studies; exchange ideas with students and professors in the humanities, social sciences, and professional faculties; receive mentoring in academic research and professional skills from leading scholars; obtain hands-on experience through study, research, or internships in Europe; present their work at national and international conferences and research colloquia.

- Diploma completion requirements:

In addition to completing relevant courses successfully, Graduate Students must:

Write a major research paper, thesis or dissertation on a topic relevant to the Centre's mandate and approved by the Diploma Coordinator.

Participate in the Centre's annual Summer Seminar which is conducted in German (German & European Studies 6000.03: Topics in Germany in the New Europe; OR German & European Studies 6010.03: Topics in German Cultural Studies in the European Context).

Participate in the Graduate Research Colloquium (while a requirement for the graduate diploma, this colloquium is not graded and carries no course credit).

Develop and demonstrate a knowledge of German appropriate to their specialty and level.

Successfully complete a study period/research stay or an internship of at least one semester in Germany. Students may receive credit for such courses according to accepted practice at York.

York University

Department of Psychology and Department of Kinesiology & Health: *Graduate Diploma in Health Psychology*

- Overview:

The Graduate Diploma in Health Psychology answers the identified need among students who are looking for more focus on the role between health and behaviour in their studies. It is an interdisciplinary program that offers Doctoral students in the Graduate Programs in Psychology and in Kinesiology & Health Science specialized research training in health psychology.

- Admission criteria:

All candidates for the Graduate Diploma in Health Psychology must first be admitted as Doctoral students in the Graduate Program in Psychology or the Graduate Program in Kinesiology & Health Science.

- Diploma completion requirements:

Completion of a PhD dissertation in a health psychology topic.

Research Projects: Two major health psychology research projects in addition to the PhD dissertation.

At least two graduate level health psychology half courses or one full year course.

At least one biomedical half course relevant to the student's research (*e.g.*, anatomy, physiology, neuroscience)

Health Psychology Seminar: A non-course meeting combining an open 'brown-bag' format with support for health psychology students both academically and professionally. The Health Psychology Seminar must be attended for any two years over the course of the student's program of study.

Clinical Training: For students in the Clinical or Clinical-Developmental Areas of the Graduate Program in Psychology only, accrual of clinical training in health psychology must be conducted during the student's internship year.

York University

York Centre for International and Security Studies: *Graduate Diploma in International and Security Studies*

- Overview:

The Graduate Diploma in International & Security Studies provides master's and Doctoral students the opportunity to specialize in the area of international and security studies, and to have this specialization noted on their transcripts.

The diploma is awarded concurrently with the master's or Doctoral degree for which the student is registered. All requirements for the diploma and master's or Doctoral degree must be fulfilled before the diploma is awarded.

- Admission criteria:

All candidates for the diploma must first be admitted to a graduate program at York University. They may register for the diploma once their master's or Doctoral program of study has been clearly defined, normally before the course work has been completed.

- Diploma completion requirements:

Students must successfully complete two of the following graduate courses:

Political Science 6216 3.0: Advanced Topics in Security Studies

Political Science 6220 3.03: Contemporary Security Studies: Regional Security and Conflict Management

Political Science 6225 3.0: Critical Security Studies

Political Science 6230 3.0: Political Economy of Military Spending

Environmental Studies 7175: Global Environmental Politics

Sociology 6611 6.0: International Migration, Ethnic Relations and Identity

Students must successfully complete at least one half-course at the graduate level, above and beyond the requirements of the master's or Doctoral program in which the student is registered. This requirement may be satisfied by one of the courses from above.

Students must prepare a research paper, on a subject approved by the Coordinator of the Graduate Diploma in International & Security Studies, which must fall within one of the YCISS mandated Security Studies research themes. This paper will not count towards the student's master's or Doctoral program or to the additional half course required for the diploma.

In addition to the research paper for the diploma, students must write a major research paper, thesis or dissertation, supervised by a member of the Faculty of Graduate Studies affiliated with the graduate diploma, on a topic approved by the diploma Coordinator. The topic must fall within one of the YCISS mandated Security Studies research themes.

York University

York Centre for Jewish Studies: *Graduate Diplomas in Advanced Hebrew and Jewish Studies and Jewish Studies*

Courses in Jewish Studies have been taught at York since 1968. York was one of the first universities in Canada to develop offerings in modern Hebrew and in many other areas of Jewish Studies. York currently teaches Jewish Studies courses each year to approximately 1000 undergraduates, which makes this program the largest in Canada.

Advanced Hebrew and Jewish Studies

- Overview:

The program of study allows students enrolled in a graduate program at York University to specialize formally in Jewish Studies and to be awarded a Graduate Diploma in Jewish Studies by the Faculty of Graduate Studies upon completion of all degree and diploma requirements.

The Diploma is intended to give recognition to those students who have undertaken a concentrated research and study program in the area of Jewish Studies. It is designed to provide students with interdisciplinary Jewish Studies methodologies. The Diploma will be of special interest to students engaged in research in Jewish education, culture, and history, and on Israel and international relations. The Diploma will be earned concurrently with the master's or Doctoral degree program for which a student is registered.

- Admission criteria:

Candidates for the Diploma must first be admitted to the Faculty of Graduate Studies as candidates for a master's or Doctoral degree in any of the existing graduate programs at York University. Candidates will formally register for the Diploma following registration in the degree program at the time they define their program of study.

- Diploma completion requirements:

A major research paper, thesis, or dissertation on a topic approved by the Coordinator of the Diploma. It is expected that the main supervisor will be a member of the Faculty of Graduate Studies in the student's program who is affiliated with the Graduate Diploma in Advanced Hebrew & Jewish Studies. This paper normally serves as the major research paper, thesis, or dissertation used to fulfill the requirement of the master's or Doctoral program in which the student is registered.

Language competence in Hebrew appropriate to the particular field as established by examinations set by the Diploma Coordinator is required. In some circumstances, students will be required to demonstrate competence in Yiddish, Ladino, or Judaeo-Arabic as well as Hebrew. In rare cases, where appropriate, they may be allowed to substitute Yiddish, Ladino, or Judaeo-Arabic for Hebrew.

PhD students will be expected to spend the equivalent of two semesters in Israel doing course work or supervised fieldwork usually affiliated with an Israeli university. Masters students will be expected to spend the equivalent of one semester in Israel doing course work or supervised fieldwork usually affiliated with an Israeli university. Exceptions to this requirement will be made at the discretion of the Diploma Coordinator.

Two half courses in Jewish Studies, either in the form of reading courses or courses from a list approved by the Diploma Coordinator. Graduate courses at an Israeli university may be accepted in fulfillment of this requirement. The two half courses may be counted towards the coursework required for the degree.

Students must successfully complete **Jewish Studies 6000 3.0: Seminar in Jewish Studies**. This half course is an introduction to Jewish Studies which offers a thematic and methodological survey of the field. Open only to students in the Diplomas in Jewish Studies and Advanced Hebrew & Jewish Studies. This requirement is an addition to work required for the degree. The seminar meets for a total of 36 hours, over the summer and the fall/winter terms.

Jewish Studies

- Overview:

The Graduate Diploma in Jewish Studies will be of interest to lay and professional leaders in the Jewish community, to teachers and administrators in Jewish schools and to those with an interest in Jewish Studies who do not wish to earn a formal graduate degree. The Diploma will provide an intellectual grounding for their activities and give them the information needed to put their leadership, teaching, and interests into a broader context.

This graduate Diploma is not additional to a master's or Doctoral degree. It will be offered and granted by the Faculty of Graduate Studies in conjunction with the Centre for Jewish Studies. Students will be admitted directly into the Diploma. Students may fulfil the requirements of the Diploma through part-time study. Diploma requirements must be completed within four years of enrolment.

- Admission requirements:

Requirements for admission are a B average in the last two years of academic work or equivalent qualifications such as community or professional experience. Mature students with community or professional experience will be able to draw on their expertise to make a unique contribution both to class discussion and to scholarship in the field.

- Diploma completion requirements:

Students must write two research papers supervised by a member of the Faculty of Graduate Studies affiliated with the Diploma in Jewish Studies, on topics approved by the Diploma Coordinator. One of these papers may be done in conjunction with the Seminar in Jewish Studies; the other must be in addition to courses taken.

Students must demonstrate basic general competence in Hebrew as established by examinations set by the Diploma Coordinator. In rare cases, where appropriate, students may be allowed to substitute Yiddish, Ladino, or Judaeo-Arabic for Hebrew. The Diploma requires and ensures that students have language competence appropriate to this program of study.

Students will take two half courses in Jewish Studies, either in the form of reading courses or courses from a list approved by the Diploma Coordinator. One graduate course from another university may be accepted in fulfillment of this requirement, if approved by the Faculty of Graduate Studies and the Diploma Coordinator.

Students must successfully complete **Jewish Studies 6000 3.0: Seminar in Jewish Studies**. The half course Seminar in Jewish Studies serves as an introduction to Jewish Studies, offering students a thematic and methodological survey of the field. The seminar meets for a total of 36 hours, over the summer and the fall/winter terms.

York University

Centre for Research on Latin America and the Caribbean: *Graduate Diploma in Latin American and Caribbean Studies (CERLAC)*

- Overview:

York University offers formal accreditation at the graduate level of specialized knowledge about Latin America and the Caribbean. This is accomplished through the Graduate Diploma, which was established in 1986.

- Admission requirements:

To register for the diploma, a student must first be admitted to a graduate degree program (master's or Doctoral) at York University. Formal registration in the diploma normally takes place once a student's program of study has been clearly defined.

- Diploma completion requirements:

A working knowledge of Spanish, Portuguese or another language other than standard English needed for research in the region.

A combination of two courses and/or research papers on Latin American or Caribbean-related topics accepted by the candidate's supervisor. One of these could be the candidate's thesis. The research papers must be written outside of courses being counted toward this requirement. These papers and/or coursework must be done at York University concurrently with the candidate's graduate degree.

Personal experience for a period of at least two months, beyond simple tourism, in Latin America or the Caribbean.

Breadth of knowledge in the region beyond what may be inferred from a reading of the candidate's research papers or course work. This requirement may be satisfied in one of two ways: an oral exam based on a reading list approved in advance by the candidate's supervisor OR a third research paper or course on a LAC-related topic. Any research paper counted towards this requirement must be written outside of any courses being counted towards the Course Work and/or Research Paper(s) requirement.

Participation in ten CERLAC colloquia and related activities during the candidate's graduate tenure. The candidate must provide written commentary on at least five of these events. The written commentaries must be submitted to the candidate's supervisor for approval.

York University

Faculty of Education and Faculty of Mathematics & Statistics: *Graduate Diplomas in Mathematics Education*

- Overview:

The Graduate Diplomas in Mathematics Education focus on mathematics education as an area of study grounded in critical examination of teaching practice, learning theories, and curriculum, and supported by analyses of sociocultural, equity, and gender issues in the teaching and learning of mathematics.

The graduate diplomas are designed to provide opportunities for graduate study of theories and research in mathematics education, as well as enriched mathematical experiences, to practising teachers and administrators and to people in the community whose work involves developing mathematical literacies.

The Graduate Diplomas in Mathematics Education are jointly offered by the Graduate Program in Education and the Graduate Program in Mathematics & Statistics. The degree concurrent option is earned in conjunction with masters or Doctoral studies; the direct entry option is offered as a stand-alone graduate diploma.

Mathematics Education Concurrent Option:

- Admission criteria:

Registration for the graduate diploma occurs *after* the candidate has been admitted to the Master of Education, the Master of Arts in Mathematics for Teachers, or the Doctoral program in Education. Consideration is given to the combined profile of demonstrated academic standing, background and experience, including professional background and experience, and potential to pursue and benefit from graduate studies.

In addition, students should have a strong interest in mathematics education as a component of their plan of study. Successful completion of at least 12 university level credits in mathematics is strongly recommended as preparation for some of the courses offered within the program; however, the graduate diploma may be satisfied by taking other listed courses.

Admission to and continuation in the diploma program for students with no postsecondary background in mathematics will be conditional upon successful completion of Mathematics 2590 3.0/2591 3.0 or equivalent within the first twelve months of graduate study.

- Diploma completion requirements:

12 credits as follows:

Six core credits

Either Education 5840 3.0/Mathematics & Statistics 5840 3.0: Mathematics Learning Environments OR Education 5841 3.0/Mathematics & Statistics 5900 3.0: Thinking about Teaching Mathematics, and

Either Education 5210/Mathematics & Statistics 5910 3.0: Quantitative Research Methods in Education OR Education 5200 3.0: Qualitative Research Methods in Education.

An additional 6 credits from the approved course list.

A thesis, major research paper, or survey paper, (as part of their degree), on a mathematics education topic as outlined below.

Mathematics Education Direct Entry Option:

- Admission criteria:

Applicants are required to have an honours degree **OR** a bachelors degree plus a Bachelor of Education; and a B average over the final two years of study.

Admission to and continuation in the diploma program for students with no postsecondary background in mathematics will be conditional upon successful completion of Mathematics 2590 3.0/2591 3.0 or equivalent within the first twelve months of graduate study.

- Diploma completion requirements:

All students must successfully complete 15 credits (5 half courses) as follows:

As a core requirement, either Education 5840 3.0/Mathematics & Statistics 5840 3.0: Mathematics Learning Environments, **OR** Education 5841 3.0: Thinking about Teaching Mathematics.

12 additional credits from the approved course listing.

It is strongly recommended that students have completed at least 12 university level credits (2 full courses) in mathematics. For students without this background, the following two undergraduate half courses are suggested as preparation:

Arts/Science Mathematics 2221 3.0: Linear Algebra with Applications I
Arts/Science Mathematics 2222 3.0: Linear Algebra with Applications II

York University

York Centre for Refugee Studies: *Graduate Diploma in Refugee & Migration Studies*

- Overview:

The program of study allows students enrolled in a graduate program at York University to specialize formally in refugee and migration studies and to be awarded a Graduate Diploma in Refugee & Migration Studies by the Faculty of Graduate Studies upon completion of all degree and diploma requirements. The graduate diploma will be awarded concurrently with the master's or Doctoral degree program for which a student is registered.

The graduate diploma is intended to give recognition to those students who have undertaken a concentrated research and study program in the area of refugee and migration studies, to encourage students to undertake such a concentration and to provide graduates who can serve both the Canadian and international communities in the vital area of public and humanitarian policy.

- Admission criteria:

Candidates for the diploma must first be admitted to the Faculty of Graduate Studies as candidates for a master's or Doctoral degree in any of the existing graduate programs at York University.

- Diploma completion requirements:

Completion of two of the courses approved by the Faculty Council of the Centre for Refugee Studies. Only one of these two courses may also be used to satisfy master's or Doctoral degree requirements.

As an alternative to one of the courses, the student may complete a directed reading course to be supervised by a faculty member affiliated with the Centre for Refugee Studies which must be approved by the Associate Director, Education, of the Centre for Refugee Studies as well as the Director of the graduate program in which the student is enrolled for a degree.

Attendance for at least one year in the Centre's weekly seminar series and special colloquia of the Centre.

Field or community work, the nature of which must be approved by the Associate Director, Education, of the Centre for Refugee Studies, with refugees or refugee organizations.

A major research paper, thesis or dissertation supervised by a member of the Faculty of Graduate Studies affiliated with the Centre for Refugee Studies on a topic to be approved by the faculty member. Normally, this will be the major research paper, thesis or dissertation used to complete the degree and must be successfully completed and defended.

York University

Schulich School of Business: *Graduate Diploma in Nonprofit Management & Leadership Studies*

- Overview:

The NMLP is a new Graduate Diploma in Nonprofit Management within the MBA program. The Diploma includes an intensive summer work placement program for those students without sufficient prior experience in the sector.

The Diploma program provides students with the opportunity to develop a more focused and rigorous approach to their area of specialization within the MBA.

Graduates of the program will receive a graduate diploma in Nonprofit Management in addition to an MBA degree.

Full-time or part-time study options are available.

- Admission criteria:

Students must be enrolled as a graduate student at the Schulich School of Business before applying to Graduate Diploma program.

- Diploma completion requirements:

Must be taken concurrently with a Schulich School MBA.

Diploma must be completed within one term of completing graduate program degree requirements.

Students must complete MGMT 6100.030 Strategy Field Guide Study on an approved nonprofit organization.

Students must also complete 12.0 credit-hours of required courses:

SB/NMLP 6200.030 Nonprofit Organizations and Their Environment
SB/NMLP 6350.030 Social Purpose Business: Alternative Economic Models
SB/NMLP 6500.030 Change, Complexity and Leadership in the Nonprofit Sector
SB/MKTG 6480.030 Nonprofit Marketing and Resource Development
SB/NMLP 6960.030 Financial Management and Business Planning in the Nonprofit Sector

A 3-4 month work placement in a nonprofit organization that is approved by the Director.

York University

Schulich School of Business: *Graduate Diploma in Real Estate & Infrastructure*

- Overview:

The program in Real Estate and Infrastructure provides MBA students with the opportunity to pursue careers throughout Canada and abroad. Graduates of the program occupy senior level management and ownership positions in development companies, advisory firms, financial institutions, corporations and consulting practices.

Courses in the program provide the requisite skills and knowledge for those who have chosen real estate or infrastructure as a career. Students may pursue Real Estate and Infrastructure as a concentration in the MBA or as a Diploma in addition to the MBA. Instruction combines theory and practice as well as relying extensively upon resources within the industry practices and cases. Students also have the opportunity to pursue a summer internship program.

- Admission criteria:

Students must be enrolled as a graduate student at the Schulich School of Business before applying to Graduate Diploma program.

- Diploma completion requirements:

Taken concurrently with a Schulich graduate degree (students must satisfy both Graduate Diploma and MBA requirements).

The Graduate Diploma must be completed within one term of completing all Schulich graduate program degree requirements

21.0 credit-hours of elective courses consisting of 15.0 credit-hours of required courses and 6.0 credit-hours of an additional elective course approved by the program Director.

Required: MGMT 6100 3.00 Strategy Field Study

The Strategy Field Study represents the culmination of a student's work in the MBA program. Through a two-term study of an actual organization, students working together as a team attempt to integrate, apply, and test all the knowledge and skills they have acquired throughout their studies. They are required to undertake an extensive and indepth analysis of the external and internal environments and an evaluation of an organization's activities; on that basis they develop actionable recommendations and an implementation plan that contribute to the organization's future success.

Joint Diploma Program:
McMaster University, Lakehead University, Laurentian University, University of
Ottawa, University of Toronto and York University

Graduate Diploma in Health Services and Policy Research

- Overview: focus on research that informs policy development and decision making; students address and identify issues in effective and efficient health-care delivery; research can be done at any of the six participating universities; full-time and part-time study; program duration is one year for full-time students; maximum completion time is two years.
- Admission criteria: must be enrolled in a research focused graduate degree program at the master's or PhD level in one of the participating universities.
- Diploma completion requirements: 1.5 credits over and above graduate degree requirements; 200-hour research or policy practicum (seen as the equivalent of a one-term course); must submit learning portfolio containing all evaluations from faculty for courses and practicum.

Appendix 1

Brock Faculty Alignment	University	Page	Graduate Diploma/Certificate
Faculty of Applied Health Sciences	Carleton University	4	Graduate Diploma in Health Policy
Faculty of Applied Health Sciences	McMaster University	6	Graduate Diploma in Advanced Neonatal Nursing
Faculty of Applied Health Sciences	McMaster University	7	Graduate Diploma and Primary Health Care Nurse Practitioner (PHCNP) Certificate
Faculty of Applied Health Sciences	The University of Guelph	12	Graduate Diploma in Clinical Studies
Faculty of Applied Health Sciences	The University of Ottawa	44	Graduate Diploma and Primary Health Care Nurse Practitioner (PHCNP) Certificate
Faculty of Applied Health Sciences	The University of Ottawa	42	Graduate Certificate in Population Health Risk Assessment and Management
Faculty of Applied Health Sciences	The University of Ottawa	20	Graduate Certificate in Couple Counseling and Spirituality
Faculty of Applied Health Sciences	The University of Ottawa	28	Graduate Certificate in Health Professions Education
Faculty of Applied Health Sciences	The University of Toronto	60	Advanced Graduate Diploma in Social Service Administration
Faculty of Applied Health Sciences	York University	74	Graduate Diploma in Health Psychology (Concurrent)
Faculty of Applied Health Sciences	<u>Joint Program:</u> McMaster University, Lakehead University, Laurentian University, University of Ottawa, University of Toronto and York University	84	Graduate Diploma in Health Services and Policy Research
Faculty of Business	Carleton University	3	Graduate Diploma in Public Management
Faculty of Business	McMaster University	6	Graduate Diploma in the Management of Innovation and New Technology
Faculty of Business	Queen's University	9	Graduate Diploma in Accounting
Faculty of Business	The University of Guelph	11	Graduate Diploma in Market Research

Faculty of Business	The University of Ottawa	22	Graduate Certificate in E-Business
Faculty of Business	The University of Ottawa	58	Graduate Certificate in E-Commerce
Faculty of Business	The University of Ottawa	26	Graduate Certificate in Government Communication
Faculty of Business	The University of Ottawa	30	Graduate Certificate in Information Studies
Faculty of Business	The University of Ottawa	56	Graduate Certificate in Organizational Communication
Faculty of Business	The University of Ottawa	50	Graduate Certificate in Public Management and Governance
Faculty of Business	The University of Toronto	61	Graduate Diploma in Investigative and Forensic Accounting
Faculty of Business	York University	63	Graduate Diploma in Advanced Management (Concurrent and Stand Alone)
Faculty of Business	York University	66	Graduate Diploma in Arts & Media Administration (Concurrent)
Faculty of Business	York University	68	Graduate Diploma in Business & the Environment (Concurrent)
Faculty of Business	York University	82	Graduate Diploma in Nonprofit Management & Leadership Studies (Concurrent)
Faculty of Business	York University	83	Graduate Diploma Real Estate & Infrastructure (Concurrent)
Faculty of Education	The University of Ontario Institute of Technology	13	Graduate Diploma in Education and Digital Technologies
Faculty of Education	The University of Ottawa	28	Graduate Certificate in Health Professions Education
Faculty of Education	The University of Ottawa	46	Graduate Certificate in Program Evaluation
Faculty of Education	York University	64	Graduate Diploma in Early Childhood Education (Concurrent and Stand Alone)
Faculty of Education	York University	79	Graduate Diploma in Mathematics Education (Concurrent and Stand Alone)
Faculty of Humanities	Laurentian University	5	Graduate Diploma in Science Communication

Faculty of Humanities	McMaster University	7	Graduate Diploma (PhD) in Gender Studies and Feminist Research (Concurrent)
Faculty of Humanities	The Ontario College of Art and Design (OCAD)	8	Graduate Diploma in Digital Futures
Faculty of Humanities	The University of Ontario Institute of Technology	13	Graduate Diploma in Education and Digital Technologies
Faculty of Humanities	The University of Ottawa	14	Graduate Certificate in Auditory-Verbal Studies
Faculty of Humanities	The University of Ottawa	40	Graduate Certificate in Piano Pedagogy Research
Faculty of Humanities	The University of Ottawa	38	Graduate Certificate in Orchestral Studies
Faculty of Humanities	The University of Ottawa	48	Graduate Certificate in Public Ethics
Faculty of Humanities	The University of Waterloo	62	Graduate Diploma in Social Innovation
Faculty of Humanities	York University	63	Graduate Diploma in Advanced Management (Concurrent and Stand Alone)
Faculty of Humanities	York University	69	Graduate Diploma in Curatorial Studies Visual Culture (Concurrent)
Faculty of Humanities	York University	73	Graduate Diploma in German & European Studies (Concurrent)
Faculty of Humanities	York University	76	Graduate Diploma in Advanced Hebrew and Jewish Studies (Concurrent)
Faculty of Humanities	York University	77	Graduate Diploma in Jewish Studies (Concurrent and Stand Alone)
Faculty of Mathematics and Statistics	Laurentian University	5	Graduate Diploma in Science Communication
Faculty of Mathematics and Science	McMaster University	6	Graduate Diploma in Spatial Analysis and Geographical Information Systems (GIS)
Faculty of Mathematics and Science	McMaster University	7	Graduate Diploma in Nuclear Technology
Faculty of Mathematics and Science	The Ontario College of Art and Design (OCAD)	8	Graduate Diploma in Digital Futures
Faculty of Mathematics and Science	The University of Guelph	10	Graduate Diploma in Food Safety and Quality Assurance
Faculty of Mathematics and Science	The University of Guelph	10	Graduate Diploma in Applied Statistics

Faculty of Mathematics and Science	The University of Guelph	12	Graduate Diploma in Pathobiology
Faculty of Mathematics and Science	The University of Guelph	11	Graduate Diploma Bioinformatics
Faculty of Mathematics and Science	The University of Guelph	10	Graduate Diploma in Modeling Applications in Water Resource Engineering
Faculty of Mathematics and Science	The University of Guelph	11	Graduate Diploma in Engineering Design of Sustainable Water Resources
Faculty of Mathematics and Science	The University of Ontario Institute of Technology	13	Graduate Diploma in Nuclear Technology
Faculty of Mathematics and Science	The University of Ottawa	30	Graduate Certificate in Information Studies
Faculty of Mathematics and Science	The University of Ottawa	32	Graduate Certificate in Internet Technologies
Faculty of Mathematics and Science	The University of Ottawa	34	Graduate Certificate in Mobile Device Applications
Faculty of Mathematics and Science	The University of Ottawa	36	Graduate Certificate in Modeling and Animation for Computer Games Technology
Faculty of Mathematics and Science	The University of Ottawa	52	Graduate Certificate in Systems Science
Faculty of Mathematics and Science	The University of Ottawa	54	Graduate Certificate in Technology Project Management
Faculty of Mathematics and Science	The University of Toronto	60	Graduate Diploma of Advanced Study in Information Studies
Faculty of Mathematics and Science	The University of Waterloo	62	Graduate Diploma in Electric Power Engineering
Faculty of Mathematics and Science	York University	79	Graduate Diploma in Mathematics Education (Concurrent and Stand Alone)
Faculty of Social Sciences	Brock University	2	Graduate Diploma in Applied Disability Studies
Faculty of Social Sciences	Carleton University	3	Graduate Certificate in Conflict Resolution
Faculty of Social Sciences	Carleton University	3	Graduate Diploma in Public Policy and Program Evaluation
Faculty of Social Sciences	Carleton University	3	Graduate Diploma in Public Management
Faculty of Social Sciences	Carleton University	4	Graduate Diploma in Sustainable Development

Faculty of Social Sciences	Carleton University	4	Graduate Diploma in Health Policy
Faculty of Social Sciences	McMaster University	6	Graduate Diploma in Spatial Analysis and Geographical Information Systems (GIS)
Faculty of Social Sciences	McMaster University	7	Graduate Diploma (PhD) in Gender Studies and Feminist Research (Concurrent)
Faculty of Social Sciences	The University of Ottawa	16	Graduate Certificate in Canon Law
Faculty of Social Sciences	The University of Ottawa	18	Graduate Certificate in Canonical Practice
Faculty of Social Sciences	The University of Ottawa	20	Graduate Certificate in Couple Counseling and Spirituality
Faculty of Social Sciences	The University of Ottawa	24	Graduate Certificate in Ecclesiastical Administration
Faculty of Social Sciences	The University of Ottawa	26	Graduate Certificate in Government Communication
Faculty of Social Sciences	The University of Ottawa	36	Graduate Certificate in Modeling and Animation for Computer Games Technology
Faculty of Social Sciences	The University of Ottawa	56	Graduate Certificate in Organizational Communication
Faculty of Social Sciences	The University of Ottawa	46	Graduate Certificate in Program Evaluation
Faculty of Social Sciences	The University of Ottawa	50	Graduate Certificate in Public Management and Governance
Faculty of Social Sciences	The University of Toronto	60	Advanced Graduate Diploma in Social Service Administration
Faculty of Social Sciences	The University of Waterloo	62	Graduate Diploma in Social Innovation
Faculty of Social Sciences	York University	67	Graduate Diploma in Asian Studies (Concurrent)
Faculty of Social Sciences	York University	68	Graduate Diploma in Business & the Environment (Concurrent)
Faculty of Social Sciences	York University	75	Graduate Diploma in International & Security Studies (Concurrent)

Faculty of Social Sciences	York University	78	Graduate Diploma in Latin American and Caribbean Studies (Concurrent)
Faculty of Social Sciences	York University	81	Graduate Diploma in Refugee and Migration Studies (Concurrent)
Faculty of Social Sciences	York University	70	Graduate Diploma in Democratic Administration (Concurrent)
Faculty of Social Sciences	York University	64	Graduate Diploma in Early Childhood Education (Concurrent and Stand Alone)
Faculty of Social Sciences	York University	71	Graduate Diploma of Environmental Sustainability Education (Concurrent and Stand Alone)
Faculty of Social Sciences	<u>Joint Program:</u> McMaster University, Lakehead University, Laurentian University, University of Ottawa, University of Toronto and York University	84	Graduate Diploma in Health Services and Policy Research

Appendix 2

(Taken from The Ontario Universities Council on Quality Assurance: Quality Assurance Framework, April 2010)

Diploma⁵ Programs: Universities may grant diplomas in acknowledgement of students' participation in either for-credit or not-for-credit activities at the undergraduate and graduate level.

The Quality Council recognizes only three types or categories of Graduate Diploma and has specific appraisal conditions applying to each.

Type 1: Awarded when a candidate admitted to a master's program leaves the program after completing a certain proportion of the requirements. Students are not admitted directly to these programs.

Type 2: Offered in conjunction with a master's (or doctoral) degree, the admission to which requires that the candidate be already admitted to the master's (or doctoral) program. This represents an additional, usually interdisciplinary, qualification.

Type 3⁶: A stand-alone, direct-entry program, generally developed by a unit already offering a related master's (and sometimes doctoral) degree, and designed to meet the needs of a particular clientele or market.

All such programs, once approved, will be subject to the normal institutional cycle of program reviews, typically in conjunction with the related degree program.

⁵ Note that the nomenclature "Diploma" is required for graduate programming under the new Quality Assurance Framework. The title "Certificates" refers to undergraduate and/or post-baccalaureate programming that is not comprised of graduate level courses.

⁶ "Type 3" Graduate Diplomas now incorporate both types 3 and 4 which had existed in the previous OCGS procedures.