

## CGPS APPENDIX C



# McGill

## New Program/Major or Minor/Concentration Proposal Form

(07/2004)

<b>1.0 Degree Title</b> Please specify the two degrees for concurrent degree programs <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">MA</div> <b>1.1 Major (Legacy= Subject)(30-char. max.)</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">Education and Society</div> <b>1.2 Concentration (Legacy = Concentration/Option) If applicable to Majors only (30 char. max.)</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">Math and Science Education</div> <b>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</b> <div style="border: 1px solid black; height: 20px; margin-bottom: 10px;"></div>	<b>2.0 Administering Faculty/Unit</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">Graduate Studies</div> <b>Offering Faculty/Department</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">Education/Integrated Studies in Education</div> <b>3.0 Effective Term of Implementation (Ex. Sept. 2004 = 200409) Term</b> <div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">201309</div>
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**4.0 Rationale for new proposal**

**5.0 Program Information**  
 Please check appropriate box(es)
 

<b>5.1 Program Type</b> <input type="checkbox"/> Bachelor's Program <input checked="" type="checkbox"/> Master's <input type="checkbox"/> M.Sc. (Applied) Program <input type="checkbox"/> Dual Degree/Concurrent Program <input type="checkbox"/> Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Graduate Diploma <input type="checkbox"/> Ph.D. Program <input type="checkbox"/> Doctorate Program (Other than Ph.D.) <input type="checkbox"/> Private Program <input type="checkbox"/> Off-Campus Program <input type="checkbox"/> Distance Education Program (By Correspondence) <input type="checkbox"/> Other (Please specify) <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>	<b>5.2 Category</b> <input type="checkbox"/> Faculty Program (FP) <input type="checkbox"/> Major <input type="checkbox"/> Joint Major <input type="checkbox"/> Major Concentration (CON) <input type="checkbox"/> Minor <input type="checkbox"/> Minor Concentration (CON) <input type="checkbox"/> Honours (HON) <input type="checkbox"/> Joint Honours Component (HC) <input type="checkbox"/> Internship/Co-op <input checked="" type="checkbox"/> Thesis (T) <input type="checkbox"/> Non-Thesis (N) <input type="checkbox"/> Other Please specify <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>	<b>5.3 Level</b> <input type="checkbox"/> Undergraduate <input type="checkbox"/> Dentistry/Law/Medicine <input type="checkbox"/> Continuing Ed (Non-Credit) <input type="checkbox"/> Collegial <input type="checkbox"/> Masters & Grad Dips & Certs <input type="checkbox"/> Doctorate <input type="checkbox"/> Post-Graduate Medicine/Dentistry <input type="checkbox"/> Graduate Qualifying <input type="checkbox"/> Postdoctoral Fellows
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<b>6.0 Total Credits</b> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">45</div>	<b>7.0 Consultation with Related Units</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Financial Consult</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Attach list of consultations</b>
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## 8.0 Program Description (Maximum 150 words)

## Masters of Arts In Education and Society; Mathematics and Science Education

This MA concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have sufficient research experience to conduct empirical research in math and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

## 9.0 List of proposed program for the New Program/Major or Minor/Concentration.

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight under the headings of: Required Courses, Complementary Courses, Elective Courses)

## Proposed Masters of Arts in Education and Society; Mathematics and Science Education (45 credits)

## Required Courses (39 credits)

EDEM 609 (3) Introduction to Educational Theory and Research  
 EDEC 625 (3) MA Seminar in Math and Science Education 1  
 EDEC 626 (3) MA Seminar in Math and Science Education 2  
 EDEC 624 (3) Researching Teaching, Learning, and Teacher Education  
 EDPE 676 (3) Intermediate Statistics  
 EDEM 621 (6) Thesis 1  
 EDEM 623 (6) Thesis 2  
 EDEM 699 (12) Thesis 3

## Complementary Courses (6 credits)

3 credits of graduate-level courses in curriculum, from the following:

EDEC 606 (3) Seminar in Curriculum Inquiry  
 EDEM 644 (3) Curriculum Development and Implementation

3 credits of graduate-level courses in theories of learning, from the following:

EDTL 500 (3) Applications of Educational Psychology Across Classrooms  
 EDPE 635 (3) Theories of Learning and Instruction

## RATIONALE:

There is a growing recognition of the need to improve mathematics, science, technology, and engineering education in society. At present, the Faculty of Education does not include a concentration focused on mathematics and science educational research at the graduate level. However, the Faculty has made recent strides to increase their commitment to developing this area of research and practice. The proposed concentration will meet the growing national and international needs for the preparation of educational researchers and teacher educators who are grounded in math and science education research as well as teacher education research. Graduates of this program will be well prepared to pursue doctoral studies in math and science education and to pursue math and science education leadership roles in informal and formal settings.

For comparison purposes, please find attached the existing program and the proposed program.

### Existing Program

Master of Arts In Education and Society (Thesis Option)  
(45 credits)

Thesis Courses (24 credits)

- EDEM 621 Thesis 1 (6 credits)
- EDEM 623 Thesis 2 (6 credits)
- EDEM 699 Thesis 3 (12 credits)

Required Courses (6 credits)

- EDEM 609 Introduction to Educational Theory and Research (3 credits)
- EDEM 690 Research Methods: Philosophy and Practice (3 credits)

Complementary Courses (3 credits)

3 credits selected from one of the following streams below:

Culture and Values in Education Stream

3 credits to be selected from the following:

- EDER 607 Values Education: Contemporary Approaches (3 credits)
- EDER 608 Educational Implications of Social Theory (3 credits)
- EDER 615 Culture, Values and Education (3 credits)

Teaching, Learning, and Curriculum Stream

3 credits to be selected from the following:

- EDEC 602 Foundations of Curriculum (3 credits)
- EDEC 606 Seminar in Curriculum Inquiry (3 credits)
- EDEM 644 Curriculum Development and Implementation (3 credits)

Elective Courses (12 credits)

12 credits at the 500, 600, or 700 level, chosen in consultation with the Thesis Supervisor or Graduate Program Director. The student may take a maximum of 6 credits from outside the Department.

### Proposed Program

Proposed Masters of Arts in Education and Society; Mathematics and Science Education (45 credits)

Required Courses (39 credits)

- EDEM 609 (3) Introduction to Educational Theory and Research
- EDEC 625 (3) MA Seminar In Math and Science Education 1
- EDEC 626 (3) MA Seminar in Math and Science Education 2
- EDEC 624 (3) Researching Teaching, Learning, and Teacher Education
- EDPE 676 (3) Intermediate Statistics
- EDEM 621 (6) Thesis 1
- EDEM 623 (6) Thesis 2
- EDEM 699 (12) Thesis 3

Complementary Courses (6 credits)

3 credits of graduate-level courses in curriculum, from the following:

- EDEC 606 (3) Seminar in Curriculum Inquiry
- EDEM 644 (3) Curriculum Development and Implementation

3 credits of graduate-level courses in theories of learning, from the following:

- EDTL 500 (3) Applications of Educational Psychology Across Classrooms
- EDPE 635 (3) Theories of Learning and Instruction

8.0 Consultation with  
Related Units☐ Yes☐ No

Financial Consult

☐ Yes☐ No

Attach list of consultations

## 9. Approvals

Routing Sequence

Name

Signature

Date

Department

RALF ST. CLAIR

Ralf St. Clair

APR 2/2013

Curric/Acad Committee

ELIZABETH WOOD

E. Wood

APR 2/2013

Faculty 1

Faculty 2

Faculty 3

SCTP

**SCTP  
APPROVED**

APRIL 25, 2013

GS

APPC

Senate

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code