



<p><b>1.0 Degree Title</b> Specify the two degrees for concurrent degree programs</p> <p>B.Sc.</p> <p><b>1.1 Major (Legacy= Subject) (30-char. max.)</b> Earth Sciences</p> <p><b>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</b></p> <p><b>1.3 Minor (with Concentration, if applicable) (30 char. max.)</b></p> <p><b>1.4 Category</b></p> <table border="0"> <tr> <td><input type="checkbox"/> Faculty Program (FP)</td> <td><input checked="" type="checkbox"/> Honours (HON)</td> </tr> <tr> <td><input type="checkbox"/> Major</td> <td><input type="checkbox"/> Joint Honours Component (HC)</td> </tr> <tr> <td><input type="checkbox"/> Joint Major</td> <td><input type="checkbox"/> Internship/Co-op</td> </tr> <tr> <td><input type="checkbox"/> Major Concentration (CON)</td> <td><input type="checkbox"/> Thesis (T)</td> </tr> <tr> <td><input type="checkbox"/> Minor</td> <td><input type="checkbox"/> Non-Thesis (N)</td> </tr> <tr> <td><input type="checkbox"/> Minor Concentration (CON)</td> <td><input type="checkbox"/> Other</td> </tr> <tr> <td></td> <td>Please specify</td> </tr> </table> <p><b>1.5 Complete Program Title</b> Honours in Earth Sciences</p>	<input type="checkbox"/> Faculty Program (FP)	<input checked="" type="checkbox"/> Honours (HON)	<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)	<input type="checkbox"/> Joint Major	<input type="checkbox"/> Internship/Co-op	<input type="checkbox"/> Major Concentration (CON)	<input type="checkbox"/> Thesis (T)	<input type="checkbox"/> Minor	<input type="checkbox"/> Non-Thesis (N)	<input type="checkbox"/> Minor Concentration (CON)	<input type="checkbox"/> Other		Please specify	<p><b>2.0 Administering Faculty/Unit</b> Science</p> <p><b>Offering Faculty/Department</b> Science/Earth and Planetary Sciences</p> <p><b>3.0 Effective Term of revision or retirement</b> Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409)    <input type="checkbox"/> Retirement</p> <p>Term:    Sept 2005</p> <p><b>4.0 Existing Credit Weight</b>    <b>Proposed Credit Weight</b></p> <p>75 credits    75 credits</p> <p><b>5.0 Rationale for revised program</b></p> <p>The program is being modified because of the change of the credit weight of course EPSC 212, Introductory Petrology, from 4 to 3 and of course EPSC 231, Field School 1, from 2 to 3. The rationale for these credit weight changes is detailed in the course change forms.</p>
<input type="checkbox"/> Faculty Program (FP)	<input checked="" type="checkbox"/> Honours (HON)														
<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)														
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	Please specify														

**6.0 Revised Program Description (Maximum 150 words)**

## 7.0 List of existing program and proposed program

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

U1 Required Courses (27 credits)  
 EPSC 203 (3) Structural Geology 1  
 EPSC 210 (3) Introductory Mineralogy  
 EPSC 212 (4) Introductory Petrology\  
 EPSC 220 (3) Principles of Geochemistry  
 EPSC 231 (2) Field School 1  
 EPSC 233 (3) Earth & Life History  
 EPSC 312 (3) Spectroscopy of Minerals  
 MATH 222 (3) Calculus 3  
 approved (3) statistics course

Note: Students who have not had the following course or its equivalent in CEGEP or the Freshman Program may be required to take MATH 133 Vector, Matrices and Geometry.

U2 and/or U3 Required Courses (33 credits)  
 EPSC 320 (3) Elementary Earth Physics  
 EPSC 350 (3) Tectonics  
 EPSC 423 (3) Igneous Petrology  
 EPSC 445 (3) Metamorphic Petrology  
 EPSC 452 (3) Mineral Deposits 2  
 EPSC 455 (3) Sedimentary Geology  
 EPSC 480D1 (3) Honours Research Project  
 EPSC 480D2 (3) Honours Research Project  
 EPSC 519 (3) Isotope Geology  
 MATH 314 (3) Advanced Calculus  
 MATH 315 (3) Ordinary Differential Equations

### Complementary Courses (15 credits)

3 credits, one of:

EPSC 331 (3) Field School 2  
 EPSC 341 (3) Field School 3

Plus 12 credits (4 courses) chosen from the following:

EPSC 330 (3) Earthquakes and Earth Structures  
 EPSC 334 (3) Invertebrate Paleontology  
 EPSC 425 (3) Sediments to Sequences  
 EPSC 435 (3) Geophysical Applications  
 EPSC 451 (3) Hydrothermal Mineral Deposits  
 EPSC 501 (3) Crystal Chemistry  
 EPSC 530 (3) Volcanology  
 EPSC 542 (3) Chemical Oceanography  
 EPSC 547 (3) High Temperature Geochemistry  
 EPSC 548 (3) Processes of Igneous Petrology  
 EPSC 549 (3) Hydrogeology  
 EPSC 550 (3) Selected Topics 1  
 EPSC 551 (3) Selected Topics 2  
 EPSC 552 (3) Selected Topics 3  
 EPSC 561 (3) Ore-forming Processes 1  
 EPSC 562 (3) Ore-forming Processes 2  
 EPSC 570 (3) Cosmochemistry  
 EPSC 580 (3) Aqueous Geochemistry  
 EPSC 590 (3) Applied Geochemistry Seminar

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of Undergraduate Studies.

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

U1 Required Courses (27 credits)  
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 EPSC 210 (3) Introductory Mineralogy  
**EPSC 212 (3) Introductory Petrology\**  
 EPSC 220 (3) Principles of Geochemistry  
**EPSC 231 (3) Field School 1**  
 EPSC 233 (3) Earth & Life History  
 EPSC 312 (3) Spectroscopy of Minerals  
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 approved (3) statistics course

Note: Students who have not had the following course or its equivalent in CEGEP or the Freshman Program may be required to take MATH 133 Vector, Matrices and Geometry.

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 EPSC 590 (3) Applied Geochemistry Seminar

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of Undergraduate Studies.

8.0 Consultation with  
Related Units

Yes  No

Financial Consult  Yes  No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	Alfonso Mucci		
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code