Program/Major or Minor/Concentration Revision Form

(07/2004)

1.0 Degree Title
Specify the two degrees for concurrent degree programs

B.Sc. (Hons)

1.1 Major (Legacy= Subject) (30-char. max.)

1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)

1.3 Minor (with Concentration, if applicable)
(30 char. max.)

1.4 Category

- ☐ Faculty Program (FP)
- ☐ Major
- ☐ Joint Major
- ☐ Major Concentration (CON)
- ☐ Minor
- ☐ Minor Concentration (CON)
- ☒ Honours (HON)
- ☐ Joint Honours Component (HC)
- ☐ Internship/Co-op
- ☐ Thesis (T)
- ☐ Non-Thesis (N)
- ☐ Other

Please specify

1.5 Complete Program Title

Honours in Planetary Sciences

2.0 Administering Faculty/Unit

Science

Offering Faculty/Department

Earth & Planetary Sciences

3.0 Effective Term of revision or retirement
Please give reasons in 5.0 "Rationale" in the case of retirement
(Ex. Sept. 2004 = 200409) ☐ Retirement

Term: 200809

4.0 Existing Credit Weight: 81

Proposed Credit Weight: 81

5.0 Rationale for revised program

A new required course has been introduced: Earth and Planetary Inference (EPSC 340). One course, Isotope Geology (EPSC 519) has been moved from a required to a complementary course. One new complementary course is listed: Subsurface Mapping (EPSC 525).

The dual listing of Cosmochemistry (EPSC 570) has been corrected.

6.0 Revised Program Description (Maximum 150 words)

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching and research. It is intended to provide an excellent preparation for graduate work in the Earth and Planetary Sciences.

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)	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) EPSC 203 (3) Structural Geology 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 and Life History EPSC 312 (3) Spectroscopy of Minerals MATH 222 (3) Calculus 3 MATH 223 (3) Linear Algebra 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 Vectors, Matrices and Geometry. U2 and/or U3 Required Courses (42 credits) EPSC 320 (3) Elementary Earth Physics EPSC 330 (3) Earthquakes and Earth Structure EPSC 350 (3) Tectonics EPSC 423 (3) Igneous Petrology EPSC 480D1 (3) Honours Research Project EPSC 480D2 (3) Honours Research Project EPSC 510 (3) Geodynamics and Geomagnetism EPSC 570 (3) Cosmochemistry MATH 314 (3) Advanced Calculus MATH 315 (3) Ordinary Differential Equations MATH 317 (3) Numerical Analysis MATH 319 (3) Partial Differential Equations PHYS 340 (3) Electricity and Magnetism Complementary Courses (12 credits) 3 credits, one of: PHYS 251 (3) Classical Mechanics 1 PHYS 230 (3) Dynamics of Simple Systems plus 9 credits (3 courses) chosen from the following: 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 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.	U1 Required Courses (27 credits) EPSC 203 (3) Structural Geology 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 and Life History EPSC 312 (3) Spectroscopy of Minerals MATH 222 (3) Calculus 3 MATH 223 (3) Linear Algebra U2 and/or U3 Required Courses (42 credits) EPSC 320 (3) Elementary Earth Physics EPSC 330 (3) Earthquakes and Earth Structure EPSC 340 (3) Earth and Planetary Inference EPSC 350 (3) Tectonics EPSC 423 (3) Igneous Petrology EPSC 480D1 (3) Honours Research Project EPSC 480D2 (3) Honours Research Project EPSC 510 (3) Geodynamics and Geomagnetism EPSC 570 (3) Cosmochemistry MATH 314 (3) Advanced Calculus MATH 315 (3) Ordinary Differential Equations MATH 317 (3) Numerical Analysis MATH 319 (3) Partial Differential Equations PHYS 340 (3) Electricity and Magnetism Complementary Courses (12 credits) 3 credits, one of: PHYS 251 (3) Classical Mechanics 1 PHYS 230 (3) Dynamics of Simple Systems plus 9 credits (3 courses) chosen from the following: 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 519 (3) Isotope Geology EPSC 525 (3) Subsurface Mapping 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 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.

Attach extra page(s) as needed

8.0 Consultation with Related Units ☐ Yes ☐ No Financial Consult ☐ Yes ☐ No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	John Stix		
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