



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <p>Bachelor of Science</p>	<p>2.0 Administering Faculty/Unit</p> <p>Science/Earth and Planetary Sciences</p>
<p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <p>Honours in Planetary Sciences</p>	<p>Offering Faculty/Department</p> <p>Science/Earth and Planetary Sciences</p>
<p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <p></p>	<p>3.0 Effective Term of revision or retirement Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409) <input type="checkbox"/> Retirement</p> <p>Term: 201509</p>
<p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <p></p>	<p>4.0 Existing Credit Weight Proposed Credit Weight</p> <p>81 78</p>
<p>1.4 Category</p> <p><input type="checkbox"/> Faculty Program (FP) <input checked="" type="checkbox"/> Honours (HON)</p> <p><input type="checkbox"/> Major <input type="checkbox"/> Joint Honours Component (HC)</p> <p><input type="checkbox"/> Joint Major</p> <p><input type="checkbox"/> Major Concentration (CON) <input type="checkbox"/> Internship/Co-op</p> <p><input type="checkbox"/> Minor <input type="checkbox"/> Thesis (T)</p> <p><input type="checkbox"/> Minor Concentration (CON) <input type="checkbox"/> Non-Thesis (N)</p> <p><input type="checkbox"/> Other</p> <p>Please specify</p> <p></p>	<p>5.0 Rationale for revised program</p> <p>Unlike the Honours Earth Sciences (now renamed Honours Geology), this Honours program was never designed to meet professional accreditation requirements. It does not require a compulsory field school in U2/U3, therefore it is not affected by the creation of the new course EPSC 240.</p> <p>A credit weight change, from 81 to 78, is the only change resulting from the retirement of EPSC 312 in U1.</p>
<p>1.5 Complete Program Title</p> <p>B.Sc. Honours in Planetary Sciences</p>	

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 Structural Geology (3 credits)
EPSC 210 Introductory Mineralogy (3 credits)
EPSC 212 Introductory Petrology (3 credits)
EPSC 220 Principles of Geochemistry (3 credits)
EPSC 231 Field School 1 (3 credits)
EPSC 233 Earth and Life History (3 credits)
EPSC 312 Spectroscopy of Minerals (3 credits)
MATH 222 Calculus 3 (3 credits)
MATH 223 Linear Algebra (3 credits)

U2 and/or U3 Required Courses (42 credits)
EPSC 320 Elementary Earth Physics (3 credits)
EPSC 330 Earthquakes and Earth Structure (3 credits)
EPSC 340 Earth and Planetary Inference (3 credits)
EPSC 350 Tectonics (3 credits)
EPSC 423 Igneous Petrology (3 credits)
EPSC 480D1 Honours Research Thesis (3 credits)
EPSC 480D2 Honours Research Thesis (3 credits)
EPSC 510 Geodynamics and Geomagnetism (3 credits)
EPSC 570 Cosmochemistry (3 credits)
MATH 314 Advanced Calculus (3 credits)
MATH 315 Ordinary Differential Equations (3 credits)
MATH 317 Numerical Analysis (3 credits)
MATH 319 Introduction to Partial Differential Equations (3 credits)
PHYS 340 Majors Electricity and Magnetism (3 credits)

Complementary Courses (18 credits)
3 credits, one of:
PHYS 230 Dynamics of Simple Systems (3 credits)
PHYS 251 Honours Classical Mechanics (3 credits)

plus 9 credits (3 courses) chosen from the following:

Note: Courses at the 300 level or higher 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.

EPSC 334 Invertebrate Paleontology (3 credits)
EPSC 425 Sediments to Sequences (3 credits)
EPSC 435 Applied Geophysics (3 credits)
EPSC 501 Crystal Chemistry (3 credits)
EPSC 519 Isotope Geology (3 credits)
EPSC 530 Volcanology (3 credits)
EPSC 542 Chemical Oceanography (3 credits)
EPSC 547 Modelling Geochemical Processes (3 credits)
EPSC 548 Processes of Igneous Petrology (3 credits)
EPSC 549 Hydrogeology (3 credits)
EPSC 550 Selected Topics 1 (3 credits)
EPSC 551 Selected Topics 2 (3 credits)
EPSC 552 Selected Topics 3 (3 credits)
EPSC 561 Ore-forming Processes (3 credits)
EPSC 567 Advanced Volcanology (3 credits)
EPSC 590 Applied Geochemistry Seminar (3 credits)

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 (24 credits)

EPSC 203 Structural Geology (3 credits)
EPSC 210 Introductory Mineralogy (3 credits)
EPSC 212 Introductory Petrology (3 credits)
EPSC 220 Principles of Geochemistry (3 credits)
EPSC 231 Field School 1 (3 credits)
EPSC 233 Earth and Life History (3 credits)
MATH 222 Calculus 3 (3 credits)
MATH 223 Linear Algebra (3 credits)

U2 and/or U3 Required Courses (42 credits)
EPSC 320 Elementary Earth Physics (3 credits)
EPSC 330 Earthquakes and Earth Structure (3 credits)
EPSC 340 Earth and Planetary Inference (3 credits)
EPSC 350 Tectonics (3 credits)
EPSC 423 Igneous Petrology (3 credits)
EPSC 480D1 Honours Research Thesis (3 credits)
EPSC 480D2 Honours Research Thesis (3 credits)
EPSC 510 Geodynamics and Geomagnetism (3 credits)
EPSC 570 Cosmochemistry (3 credits)
MATH 314 Advanced Calculus (3 credits)
MATH 315 Ordinary Differential Equations (3 credits)
MATH 317 Numerical Analysis (3 credits)
MATH 319 Introduction to Partial Differential Equations (3 credits)
PHYS 340 Majors Electricity and Magnetism (3 credits)

Complementary Courses (18 credits)
3 credits, one of:
PHYS 230 Dynamics of Simple Systems (3 credits)
PHYS 251 Honours Classical Mechanics (3 credits)

plus 9 credits (3 courses) chosen from the following:

Note: Courses at the 300 level or higher 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.

EPSC 334 Invertebrate Paleontology (3 credits)
EPSC 425 Sediments to Sequences (3 credits)
EPSC 435 Applied Geophysics (3 credits)
EPSC 501 Crystal Chemistry (3 credits)
EPSC 519 Isotope Geology (3 credits)
EPSC 530 Volcanology (3 credits)
EPSC 542 Chemical Oceanography (3 credits)
EPSC 547 Modelling Geochemical Processes (3 credits)
EPSC 548 Processes of Igneous Petrology (3 credits)
EPSC 549 Hydrogeology (3 credits)
EPSC 550 Selected Topics 1 (3 credits)
EPSC 551 Selected Topics 2 (3 credits)
EPSC 552 Selected Topics 3 (3 credits)
EPSC 561 Ore-forming Processes (3 credits)
EPSC 567 Advanced Volcanology (3 credits)
EPSC 590 Applied Geochemistry Seminar (3 credits)

8.0 Consultation with Related Units <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Financial Consult <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Attach list of consultations	

9. Approvals			
Routing Sequence	Name	Signature	Date
Department	Alfonso Mucci		November 14, 2014
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
CGPS			
SCTP			
APC			
Senate			
Submitted by			
Name	Jeanne Pquette	To be completed by ARR:	
Phone	514-398-4402	CIP Code	
Email	jeanne.paquette@mcgill.ca		
Submission Date	November 17, 2014		

10. FQRSC (Research) Indicator (for GPS): Yes No