

Program/Major or Minor/Concentration Revision Form

	Degree Title 2.0 Administering Faculty/Unit Specify the two degrees for concurrent degree programs					
	Graduate and Postdoctoral Studies					
	Offering Faculty/Department					
	Earth and Planetary Sciences					
	Concentration (Legacy = Concentration/Option) 3.0 Effective Term of revision or retirement Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409)					
	Term: 201409					
jht	Minor (with Concentration, if applicable) 4.0 Existing Credit Weight Proposed Credit Weight (30 char. max.) Image: Credit Weight Image: Credit Weight					
	Category 5.0 Pationale for revised program					
	Two revisions are proposed for our Ph D programs:					
s entering (e the quired for ygram at n h.D.1 by a 666 he goal of l n extend	Faculty Program (FP) Honours (HON) Major Joint Honours Joint Major Joint Honours Major Concentration (CON) Internship/Co-op Minor Thesis (T) Minor Concentration (CON) Non-Thesis (N) Other Please specify Evel with those of students who obtain both an M.Sc. followed by a ph.D. degree in our department. 2. We no longer wish to require Ph.D. students to take EPSC 666 (Current Issues in Geosciences) because we have found that the g this course is better served by students attending departmental seminars by outside speakers whose areas of knowledge often ext to other subdisciplines of geoscience be and those within the					
rrent raised	Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment issues in geoscience. The complementary courses have been raise accordingly.					
	Revised Program Description (Maximum 150 words)					
Faculty Program (FP) Honours (HON) Joint Major Joint Honours Joint Major Joint Honours Major Concentration (CON) Internship/Co-op Minor Thesis (T) Minor Concentration (CON) Non-Thesis (N) Other Please specify 1.5 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — 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)

29.11.5.8 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses ENVR 610 (3) Foundations of Environmental Policy ENVR 650 (1) Environmental Seminar 1 ENVR 651 (1) Environmental Seminar 2 ENVR 652 (1) Environmental Seminar 3 EPSC 666 (3) Current Issues in Geosciences EPSC 700 (0) Preliminary Doctoral Examination

Complementary Courses

One to **five** courses

One course chosen from the following courses: ENVR 519 (3) Global Environmental Politics ENVR 544 (3) Environmental Measurement and Modelling ENVR 580 (3) Topics in Environment 3 ENVR 611 (3) The Economy of Nature ENVR 620 (3) Environment and Health of Species ENVR 622 (3) Sustainable Landscapes ENVR 630 (3) Civilization and Environment ENVR 680 (3) Topics in Environment 4 or another course at the 500, 600, or 700 level recommended by the advisory committee with the student's supervisor and approved by the Academic Standing Committee. Zero to four courses at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

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

29.11.5.8 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment

Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year.

Students are required to take four graduate-level courses (12 credits) in the Ph.D. 1 year, and two courses (6 credits) plus a comprehensive oral examination in the Ph.D. 2 year, as well as the Required Courses listed below.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

ENVR 610 (3) Foundations of Environmental Policy ENVR 650 (1) Environmental Seminar 1 ENVR 651 (1) Environmental Seminar 2 ENVR 652 (1) Environmental Seminar 3 EPSC 700 (0) Preliminary Doctoral Examination

Complementary Courses

Two to six courses (6 to 18 credits)*

One course chosen from the following courses: ENVR 519 (3) Global Environmental Politics ENVR 544 (3) Environmental Measurement and Modelling ENVR 580 (3) Topics in Environment 3 ENVR 611 (3) The Economy of Nature ENVR 620 (3) Environment and Health of Species ENVR 622 (3) Sustainable Landscapes ENVR 630 (3) Civilization and Environment ENVR 680 (3) Topics in Environment 4 or another course at the 500, 600, or 700 level recommended by the advisory committee with the student's supervisor and approved by the Academic Standing Committee. One to five courses at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

Attach extra page(s) as needed

8.0 Consultation with Related Units	□ Yes	□ No	Financial Consult	□ Yes	i 🗆 No		
Attach list of consultations							
9. Approvals							
Routing Sequence		Name	Signature		Date		
Department							
Curric/Acad Committee							
Faculty 1							
Faculty 2							
Faculty 3							
SCTP							
GS							
APPC							
Senate							
Submitted by							
Name			To be completed by ARR:				
Phone			CIP Code				
Email							
Submission Date							