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

No change from what is currently written in the graduate calendar:

Two revisions are proposed for our Ph.D programs:

1. After much consideration we decided that requiring students entering in the Ph.D. program at year 1 (Ph.D.1) should only have to take the same number of course credits as the sum of course credits required for M.Sc. students, 12 credits, and students entering the Ph.D. program at year 2 (Ph.D.2), 6 credits, for a total of 18 credits. This revision balances the credit requirements for students entering at the Ph.D.1 level 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 goal of this course is better served by students attending departmental seminars by outside speakers whose areas of knowledge often extend to other subdisciplines of geoscience beyond those within the department, thus giving the students a better introduction to current issues in geoscience. The complementary courses have been raised accordingly.
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.
### 8.0 Consultation with Related Units
- ☐ Yes
- ☐ No

### Financial Consult
- ☐ Yes
- ☐ No

Attach list of consultations

### 9. Approvals

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Submitted by

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- Phone: [ ]
- Email: [ ]
- Submission Date: [ ]

To be completed by ARR:

- CIP Code: [ ]