



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">B.A. & Sc.</div> <p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Major Concentration in Physical Geography Option</div> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div> <p>1.4 Category</p> <table style="width: 100%;"><tr><td><input type="checkbox"/> Faculty Program (FP)</td><td><input 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 checked="" 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></table> <p style="margin-left: 150px;">Please specify</p> <div style="border: 1px solid black; height: 20px; margin-left: 150px; margin-top: 5px;"></div> <p>1.5 Complete Program Title</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Major Concentration in Physical Geography Option</div>	<input type="checkbox"/> Faculty Program (FP)	<input 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 checked="" 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	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Science</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Geography</div> <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: <div style="border: 1px solid black; padding: 5px; text-align: center;">200809</div></p> <table style="width: 100%;"><tr><td style="width: 50%;">4.0 Existing Credit Weight</td><td style="width: 50%;">Proposed Credit Weight</td></tr><tr><td style="text-align: center;"><div style="border: 1px solid black; padding: 5px; display: inline-block;">36</div></td><td style="text-align: center;"><div style="border: 1px solid black; padding: 5px; display: inline-block;">36</div></td></tr></table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"><p>GEOG 350 will not be regularly offered and newly offered GEOG 470 will provide a similar learning experience.</p><p>Removal of ATOC 308 because the course will no longer be co-taught by GEOG and ATOC.</p><p>GEOG 555, a relatively new course, is added to complementary courses.</p></div>	4.0 Existing Credit Weight	Proposed Credit Weight	<div style="border: 1px solid black; padding: 5px; display: inline-block;">36</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">36</div>
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<input checked="" type="checkbox"/> Major Concentration (CON)	<input type="checkbox"/> Thesis (T)																
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4.0 Existing Credit Weight	Proposed Credit Weight																
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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)

Required Courses (12 credits)

GEOG 201 Introductory Geo-Information Science 3
GEOG 202 Statistics and Spatial Analysis 3
GEOG 203 Environmental Systems 3
GEOG 272 Earth's Changing Surface 3

Complementary Courses (24 credits)

6 credits of analytical techniques selected from:

GEOG 306 Raster Geo-Information Science 3
GEOG 307 Socioeconomic Applications of GIS 3
GEOG 308 Principles of Remote Sensing 3

~~Or ATOC 308~~

GEOG 351 Quantitative Methods 3

3 credits of field courses selected from:

GEOG 495 Field Studies – Physical Geography 3
GEOG 496 Geographical Excursion 3
GEOG 497 Ecology of Coastal Waters 3
GEOG 499 Subarctic Field Studies 3

9-15 credits in systematic physical geography selected from:

GEOG 305 Soils and Environment 3
GEOG 321 Climatic Environments 3
GEOG 322 Environmental Hydrology 3

~~GEOG 350 Ecological Biogeography 3~~

GEOG 372 Running Water Environments 3

0-6 credits in integrative and advanced topics selected from:

GEOG 302 Environmental Management 3
GEOG 501 Modelling Environmental Systems 3
GEOG 505 Global Biogeochemistry 3
GEOG 506 Advanced Geographic Information Science 3
GEOG 536 Geocryology 3
GEOG 537 Advanced Fluvial Geomorphology 3
GEOG 550 Historical Ecology Techniques 3

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

Required Courses (12 credits)

GEOG 201 Introductory Geo-Information Science 3
GEOG 202 Statistics and Spatial Analysis 3
GEOG 203 Environmental Systems 3
GEOG 272 Earth's Changing Surface 3

Complementary Courses (24 credits)

6 credits of analytical techniques selected from:

GEOG 306 Raster Geo-Information Science 3
GEOG 307 Socioeconomic Applications of GIS 3
GEOG 308 Principles of Remote Sensing 3
GEOG 351 Quantitative Methods 3

3 credits of field courses selected from:

GEOG 495 Field Studies – Physical Geography 3
GEOG 496 Geographical Excursion 3
GEOG 497 Ecology of Coastal Waters 3
GEOG 499 Subarctic Field Studies 3

9-15 credits in systematic physical geography selected from:

GEOG 305 Soils and Environment 3
GEOG 321 Climatic Environments 3
GEOG 322 Environmental Hydrology 3
GEOG 372 Running Water Environments 3

GEOG 470 Wetlands 3

0-6 credits in integrative and advanced topics selected from:

GEOG 302 Environmental Management 3
GEOG 501 Modelling Environmental Systems 3
GEOG 505 Global Biogeochemistry 3
GEOG 506 Advanced Geographic Information Science 3
GEOG 536 Geocryology 3
GEOG 537 Advanced Fluvial Geomorphology 3
GEOG 550 Historical Ecology Techniques 3

GEOG 555 Ecological Restoration 3

8.0 Consultation with
Related Units

☒ Yes ☐ No

Financial Consult ☐ Yes ☐ No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	<input type="text"/>	<input type="text"/>	<input type="text"/>
Curric/Acad Committee	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
SCTP	<input type="text"/>	<input type="text"/>	<input type="text"/>
GS	<input type="text"/>	<input type="text"/>	<input type="text"/>
APPC	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senate	<input type="text"/>	<input type="text"/>	<input type="text"/>

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code