B.Sc. Honours Program:
Major in Environmental Geomatics (Regular Program)

Name: ___________________________________________  Student # _________________________

About the Program
This program provides opportunities for study of the processes and properties of the biophysical environment and a
core foundation in the analytical techniques (i.e. Geographical Information Science and Remote Sensing) used for their
interpretation, analysis and presentation. Graduates of the program will have unique specialty in the application of
spatial technologies to the study and assessment of biophysical and Earth surface processes. This check-list applies to
students enrolled in the regular program. Students enrolled in the Co-op stream should consult the check-list
specifically for that program.

Check-list [based on 2019-20 calendar]

Bring this list with you when you come for counselling and leave it with your counsellor in your semester of graduation. A list of counsellors
is posted in the first floor corridor of the Hutt Building during registration period. At other times check with the secretary in Hutt 119

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*1350</td>
<td>Earth: Hazards and Global Change</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1070</td>
<td>Discovering Biodiversity</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>Physics for Life Science</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>Elements of Calculus I</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>Calculus I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent intro course in first semester. The required first-year
science courses in that subject should be completed according to the revised schedule of studies available at http://www.bsc.uoguelph.ca/revisedss.shtml.

Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>Introduction to Molecular and Cellular Biology</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>General Chemistry II</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1300</td>
<td>Introduction to the Biophysical Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>Physics for Life Sciences II</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Liberal Education electives * (GEOG*1220 is recommended)

Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*2000</td>
<td>Geomorphology</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2420</td>
<td>The Earth from Space</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>Mapping and GIS</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*2240</td>
<td>Fundamentals of Environmental Geology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Liberal Education electives
Semester 4

- GEOG*2110 [0.50] Climate and the Biophysical Environment
- GEOG*2210 [0.50] Environment and Resources
- STAT*2040 [0.50] Statistics I

One of:
- CIS*1200 [0.50] Introduction to Computing
- CIS*1500 [0.50] Introduction to Programming
- MATH*1210 [0.50] Calculus II
- MATH*1090 [0.50] Elements of Calculus II

1.00 approved Science electives

Semester 5

- GEOG*3000 [0.50] Fluvial Processes
- GEOG*3110 [0.50] Biotic and Natural Resources

One of:
- GEOG*3020 [0.50] Global Environmental Change
- GEOG*3090 [0.50] Gender and Environment
- GEOG*3210 [0.50] Management of the Biophysical Environment

1.00 electives, at least 0.50 from approved Science electives

Semester 6

- GEOG*3420 [0.50] Remote Sensing of the Environment
- GEOG*3480 [0.50] GIS and Spatial Analysis
- GEOG*3610 [0.50] Environmental Hydrology

1.00 electives, at least 0.50 from approved Science electives

Semester 7

- GEOG*4110 [1.00] Environmental Systems Analysis

1.50 electives, at least 1.00 from approved Science electives (GEOG*4690 is recommended)

Semester 8

- GEOG*4150 [0.50] Catchment Processes
- GEOG*4480 [1.00] Applied Geomatics

1.00 approved Science electives

Credit Summary (20.00 total credits)

- 4.50 First year Science credits
- 3.00 Approved Science electives
- 8.50 Required Science courses semesters 3–8
- 1.00 Liberal Education electives
- 1.00 Required Social Science courses semesters 3–8
- 2.00 Free electives

Of the total credits required, students are required to complete 16.00 credits in science of which 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Course Substitutions

Required course

Course substituted

Date

Signature

Date of entry to program: _______________ August 21, 2019