

B.Sc. Honours Program: Major in Environmental Geomatics (Co-op)

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 Co-op program. Students enrolled in the regular stream should consult the check-list specifically for that program.

Check-list [based on 2020-21 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 - FALL

GEOG*1350	[0.50]	Earth: Hazards and Global Change
BIOL*1070	[0.50]	Discovering Biodiversity
CHEM*1040	[0.50]	General Chemistry I
PHYS*1080	[0.50]	Physics for Life Science
One of:		
MATH*1080	[0.50]	Elements of Calculus I
MATH*1200	[0.50]	Calculus I

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 https://bsc.uoguelph.ca/revised_SS.

Semester 2 - WINTER

BIOL*1090	[0.50]	Introduction to Molecular and Cellular Biology
CHEM*1050	[0.50]	General Chemistry II
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1070	[0.50]	Physics for Life Sciences II

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

Semester 3 - FALL

GEOG*2000	[0.50]	Geomorphology
GEOG*2420	[0.50]	The Earth from Space
GEOG*2480	[0.50]	Mapping and GIS
ENVS*2240	[0.50]	Fundamentals of Environmental Geology
COOP*1100	[0.50]	Introduction to Co-operative Education
STAT*2040	[0.50]	Statistics I

Semester 4 - WINTER

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

0.50 approved Science electives

SUMMER SEMESTER

COOP*1000	[0.50]	Co-op Work Term I
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Semester 5 - FALL

GEOG*3000	[0.50]	Fluvial Processes
GEOG*3110	[0.50]	Biotic and Natural Resources
GEOG*3480	[0.50]	GIS and Spatial Analysis

0.50 approved Science electives and 0.5 Liberal Education electives

WINTER SEMESTER

COOP*2000	[0.50]	Co-op Work Term II
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Semester 6 - SUMMER

GEOG*3610	[0.50]	Environmental Hydrology
GEOG*4990	[0.50]	Independent Study in Geography
One of:		
GEOG*3020	[0.50]	Global Environmental Change
GEOG*3210	[0.50]	Management of the Biophysical Environment

1.00 electives

FALL SEMESTER

COOP*3000	[0.50]	Co-op Work Term III
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WINTER SEMESTER

COOP*4000	[0.50]	Co-op Work Term IV
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Semester 7 - FALL

GEOG*4110	[1.00]	Environmental Systems Analysis
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1.50 electives, at least 1.00 from approved Science electives

Semester 8 - WINTER

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

1.00 electives, at least 0.50 from approved Science electives

Credit Summary (20.00 total credits)

4.50	First year Science credits	2.50	Approved Science electives
9.00	Required Science courses semesters 3–8	1.00	Liberal Education electives
1.00	Required Social Science courses semesters 3–8	2.00	Free electives (any approved elective for BSc students)

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.

This check-list guides you through the degree requirements. In addition, you may use the “audit” feature in WebAdvisor to help you understand the courses you still need to complete.

September 11, 2020