

## THE BACHELOR OF ARTS AND SCIENCE

The Department of Geography, the discipline, and specific courses are described in the Faculty of Science section of the Calendar. Note that students may take a Geography program either in Arts or in Science, but not in both.

The following are considered Arts programs in the B.A. and Sc. and are described in the Faculty of Arts section of the Calendar:

- Minor Concentration in Geography
- Minor Concentration in Geography (Urban Systems)
- Major Concentration in Geography
- Major Concentration in Geography (Urban Systems)

The following are considered Science programs in the B.A. and Sc. and are described under the Faculty of Science section in the Calendar:

- Minor in Geography
- Minor in Geographical Information Systems
- Major Concentration in Geography (Physical Geography)

For the purposes of the B.A. & Sc. degree, you can combine the Physical Geography Option below with any major concentration in the Faculty of Arts (except Geography) or with two minor concentrations in the Faculty of Arts (except Geography).

### Major Concentration Physical Geography Option (Total: 36 credits)

The Major Concentration in Geography, which is restricted to students in the B.A. & Sc., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

#### *Required Courses*

The following 4 courses (12 credits) are required. Substitutions to this list may only be made on a case-by-case basis by prior approval of the Geography Undergraduate Advisor.

Course Number and Description	Cr	Semester taken or proposed	Completed
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)**

Courses are selected as follows:

Choose 2 courses (6 credits) from the following analytical techniques courses.

<b>Course Number and Description</b>	<b>Cr</b>	<b>Semester taken or proposed</b>	<b>Completed</b>
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	_____	_____

Choose 1 course (3 credits) from the following field courses (availability to be announced in February).

<b>Course Number and Description</b>	<b>Cr</b>	<b>Semester taken or proposed</b>	<b>Completed</b>
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	_____	_____

Choose 3 to 5 courses (9 to 15 credits) from the following systematic physical geography courses.

<b>Course Number and Description</b>	<b>Cr</b>	<b>Semester taken or proposed</b>	<b>Completed</b>
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	_____	_____

Choose 0 to 2 courses (0 to 6 credits) from the following integrative and advanced topics courses.

<b>Course Number and Description</b>	<b>Cr</b>	<b>Semester taken or proposed</b>	<b>Completed</b>
GEOG 302 Environmental Management 1	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	_____	_____