# GEOGRAPHY - 5-YEAR BACHELOR OF SCIENCE AND MASTER OF GEOSCIENCE IN GEOSCIENCE

## Program Requirements

### First Year
#### Fall
- **GEOG 201** Introduction to Human Geography 3
- **GEOG 215** Geospatial Cornerstone 1

**Life and physical sciences** 1 4

Select one of the following:
- **OCNG 251** The Blue Planet - Our Oceans
- **OCNG 252** The Blue Planet - Our Oceans Laboratory

- **GEOL 101** Principles of Geology
- **GEOL 102** Principles of Geology Laboratory

- **BIOL 111** Introductory Biology I
- **CHEM 119** Fundamentals of Chemistry I
- **PHYS 201** College Physics

**American history** 3

**Communication** 3

**Human geography elective** 2 3

#### Semester Credit Hours
17

#### Spring
- **GEOG 203** Planet Earth 3
- **GEOG 213** Planet Earth Lab 1

**MATH 140** Mathematics for Business and Social Sciences 3

**Life and physical sciences** 1 4

Select one of the following:
- **ATMO 201** Weather and Climate
- **ATMO 202** Weather and Climate Laboratory

- **GEOL 106** Historical Geology

- **BIOL 112** Introductory Biology II

- **CHEM 120** Fundamentals of Chemistry II

- **PHYS 202** College Physics

**Human geography elective** 2 3

**General elective** 4 3

#### Semester Credit Hours
17

### Second Year
#### Fall
- **GEOG 232** Cartography and Visualization 3
- **MATH 142** Business Calculus 3

- **GEOG 201** Introduction to Human Geography 3
- **GEOG 205** Geospatial Cornerstone 1

**Life and physical sciences** 1 4

Select one of the following:
- **OCNG 251** The Blue Planet - Our Oceans
- **OCNG 252** The Blue Planet - Our Oceans Laboratory

- **GEOL 101** Principles of Geology
- **GEOL 102** Principles of Geology Laboratory

- **BIOL 111** Introductory Biology I
- **CHEM 119** Fundamentals of Chemistry I
- **PHYS 201** College Physics

**American history** 3

**Communication** 3

**Human geography elective** 2 3

**General elective** 4 3

#### Semester Credit Hours
17

### Third Year
#### Fall
- **American history** 3

**Language, philosophy and culture** 3

**Geography elective** 5 9

#### Semester Credit Hours
16

#### Spring
- **Communication** 3

**General elective** 13

#### Semester Credit Hours
16

### Fourth Year
#### Fall
- **GEOG 450** Field Geography 3
- **GEOG 651** Remote Sensing for Geographical Analysis 3
- **GEOG 659** Geodatabases 3

**GEOS 669 or OCNG 669** Introduction to Processing Geoscience Data with R or Python for Geosciences 3

**General elective** 4 4

#### Semester Credit Hours
16

#### Spring
- **GEOG 440** History and Nature of Geography 3

**Graduate theme elective** 6 6

**General elective** 4 7

#### Semester Credit Hours
16

### Fifth Year
#### Fall
- **GEOG 665** GIS-Based Spatial Analysis and Modeling 3
- **GEOG 676** GIS Programming 3

**Graduate theme elective** 6 6

#### Semester Credit Hours
12

#### Spring
- **GEOG 678** WebGIS 3
Geography - 5-Year Bachelor of Science and Master of Geoscience in Geoscience

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>GEOS 676</td>
<td>Capstone Experience</td>
<td>6</td>
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**Semester Credit Hours**: 9

**Total Semester Credit Hours**: 150

1. 8 hours required. Department requires that you take two in the same discipline to meet this requirement.
2. Select from GEOG 301, GEOG 304, GEOG 305, GEOG 306, GEOG 309, GEOG 311, GEOG 320, GEOG 323, GEOG 325, GEOG 327, GEOG 330, GEOG 401, GEOG 406, GEOG 420, GEOG 430.
3. Select from GEOG 324, GEOG 331, GEOG 335, GEOG 360, GEOG 370/MARS 370, GEOG 400, GEOG 434, GEOG 435, GEOG 442/GEOS 442.
5. Choose from any 300 or 400-level geography course except GEOG 361, GEOG 391, GEOG 392, GEOG 461, GEOG 477, GEOG 478.
6. Select from GEOG 661, GEOG 662, GEOG 663, GEOG 677, GEOG 695; GEOL 617, GEOP 635. Up to 6 hours of graduate electives may be used towards the undergraduate degree's general elective.

Two courses in the bachelor of science degree plan must be Writing Intensive courses designated by the department in the schedule of classes. Also, International and Cultural Diversity (3 hours) and Cultural Discourse (3 hours) must be incorporated into the degree.

A maximum of 15 hours of graduate courses can be taken online, which is less than 50% of the required graduate degree hours.

The program includes a total of 156 hours, which up to 6 hours may be applied toward both the Bachelor of Science in Geography and the Master of Geoscience in Geoscience face-to-face program.