Bachelor of Science In Geography  
Major Requirements  
36 units required in the major. At least 21 must be upper-division.

<table>
<thead>
<tr>
<th>Foundation Courses (4 courses)</th>
<th>Methods courses (2 courses):</th>
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<tbody>
<tr>
<td>GEOG 220 Our Diverse Biosphere</td>
<td>GEOG 330 Introduction to Remote Sensing (cannot also fulfill Concentration Method)</td>
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<tr>
<td>GEOG 222 Working with Numeric, Spatial, and Visual Data</td>
<td>GEOG 357 Geographical Research Methods</td>
</tr>
<tr>
<td>GEOG 230 Our Changing Climate</td>
<td>GEOG 416A Computer Cartography</td>
</tr>
<tr>
<td>GEOG 417 Geographic Information Systems</td>
<td>GEOG 457 Statistical Techniques in Geography</td>
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| Introductory human geography course (1 course): |
| GEOG 210 Political and Cultural Geography of Globalization |
| GEOG 251 World Regional Geography |
| GEOG 256 Sustainable Cities. |

Choose ONE concentration: Physical Geography; Geographic Information Science; or Water, Land, and Society

#### Physical Geography

**Concentration Method (1 course):**
- GEOG 303 Field Methods

**Physical Geography (4 courses):** Must not duplicate the course taken for introductory physical geography course.
- GEOG 220 Our Diverse Biosphere
- GEOG 230 Our Changing Climate
- GEOG 240 Our Dynamic Landscape
- GEOG 430 The Climate System
- GEOG 431 Global and Regional Climate
- GEOG 450 Geomorphology
- GEOG 478 Global Change
- GEOG 438 Biogeography
- GEOG 439A Intro to Dendrochronology
- GEOG 461L/R Conservation Biology
- GEOG 483 Geographical Applications of Remote Sensing

#### Geographic Information Science

**Concentration Method (1 course):**
- GEOG 330 Introduction to Remote Sensing

**Advanced Methods (4 courses):**
- GEOG 416C Urban Geographic Information Systems (417 Prerequisite)
- GEOG 416E Geovisualization (GIS) (416A and 417 Prerequisite)
- GEOG 416F GIS for Social Sciences
- GEOG 419 Cartographic Modeling (417 Prerequisite)
- GEOG 420 Advanced Geographic Information Systems (417 Prerequisite)
- GEOG 422 Resource Mapping
- GEOG 424 Integrated GIS (417 Prerequisite)
- GEOG 458 Geography of Transportation
- GEOG 473 Spatial Analysis & Modeling (417 and Statistics Prerequisites)
- GEOG 483 Geographical Applications of Remote Sensing (330 Prerequisite)
- GEOG 490 Remote Sensing for the Study of Planet Earth

#### Water, Land, & Society

**Concentration Method (1 course):**
- GEOG 303 Field Methods

**Water, Land, & Society Courses (4 courses):**
- GEOG 304 Water, Environment & Society
- GEOG 367 Population Geography
- GEOG 379 Urban Growth and Development
- GEOG 404 Politics of Nature
- GEOG 430 The Climate System
- GEOG 438 Biogeography
- GEOG 461 Environmental and Resource Geography
- GEOG 469 Water Resource Assessment
- GEOG 468 Water and Sustainability
- RNR 472 Envr Land Use Planning
- GEOG 478 Global Change
- GEOG 488 Governing Science and Technology