The Geography Major requires four courses from a selection of 15 and requires a minimum of 27 credit hours in geography above the 100 level. Students may elect a general geography major or they may complete additional courses for a concentration in Urban Planning, Earth Science/Environmental Studies, or Geographic Information Science. Students may also complete a major in Geography with Social Studies High School Teaching Licensure.

Student Learning Goals

Students completing this major are expected to demonstrate a basic competence in earth science, human geography, and regional geography. In addition, they are expected to be able to successfully investigate geographic problems using the current research techniques and methodologies of the discipline and to clearly and effectively express their findings in both written and oral form.

Overall Requirements

• 122 credit hours, to include at least 36 credits at or above the 300 course level
• A minimum of 27 credits in geography above the 100 level. Only grades of C- or higher will count toward completion of the major and concentrations.

Degree Program Requirements

University Requirements (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies)

General Education Core Requirements (GEC) (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/general-education-program/#generaleducationcorerequirementstext)

College of Arts and Sciences Additional Requirements (LEC) (https://catalog.uncg.edu/arts-sciences/#additionalundergraduaterequirementstext)

Major Requirements

The Geography B.A. offers three concentrations from which students can choose:

Earth Science/Environmental Studies Concentration

A central theme of geography is human interaction with the earth’s physical environment. This concentration permits students to apply the basic scientific principles of physical geography, cartography, and natural resource analysis to the problem of ensuring a high quality of life through maintenance of the natural processes that support human existence. This concentration also provides training to enhance the employment opportunities of students with a strong interest in environmental assessment and resource evaluation.

Geographic Information Science Concentration

Students with this concentration will develop skills in using maps, geospatial computer programs, and remotely sensed images to answer geographic questions relevant to land use planning, urban development, geomorphic or biogeographic processes, or environmental impact assessment. A capstone course (GEO 421 Geographic Information Science), which includes a faculty-directed major project, is completed in the final semester.

Urban Planning Concentration

The inter-regional shift of people and jobs in the United States and elsewhere over the past decades coupled with the movement away from large central cities has increased the need for formal urban and regional planning. Planners are needed in the private sector as well as in state and local governments to provide the appropriate kinds of economic and community development that will ensure a high quality of life in both developed and developing countries. In a growth region like the Southeast, geographers with a planning background are in increasing demand.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 421</td>
<td>Geographic Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

*Counts toward GEC GNS requirement.*
### Earth Science/Environmental Studies Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 319</td>
<td>Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>GES 319L</td>
<td>Climatology Laboratory</td>
<td></td>
</tr>
<tr>
<td>GES 314</td>
<td>Physical Geography: Landscape Processes</td>
<td></td>
</tr>
<tr>
<td>GES 314L</td>
<td>Physical Geography Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of five courses of the following:

- GES 205 Environmental Change: Its Nature and Impact
- GES 305 Environmental Hazards Assessment
- GES 312 Geomorphology of North America
- GES 330 Elements of Hydrology
- GES 357 Principles of Cartography
- GES 358 Geographic Information Systems
- GES 359 Remote Sensing of Environment
- GES 418 Biogeography
- GES 419 Advanced Weather and Climate-Synoptic Climatology
- GES 457 Advanced Cartography
- GES 459 Advanced Remote Sensing-Imaging
- GES 450 Applied Physical Geography

† Counts toward GEC GNS requirement.

### Geographic Information Science Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 121</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GES 357</td>
<td>Principles of Cartography</td>
<td></td>
</tr>
<tr>
<td>GES 358</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GES 359</td>
<td>Remote Sensing of Environment</td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of one of the following:

- GES 457 Advanced Cartography
- GES 459 Advanced Remote Sensing-Imaging
- GES 421 Geographic Information Science

* Taken after the completion of the other Additional Concentration Requirements.
† Counts toward GEC GNS requirement.

### Urban Planning Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 105</td>
<td>Introduction to Human Geography</td>
<td></td>
</tr>
<tr>
<td>GES 301</td>
<td>Urban Geography: Global Patterns</td>
<td></td>
</tr>
<tr>
<td>GES 306</td>
<td>World Economic Geography</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- GES 105 Introduction to Human Geography
- GES 301 Urban Geography: Global Patterns
- GES 302 Urban Geography: Land Use
- GES 303 World Population Problems
- GES 306 World Economic Geography
- GES 315 The Geography of World Affairs

Select one of the following:

- GES 102 The Historical Geography of the Western World
- GES 104 World Regional Geography

### Electives

Electives sufficient to complete the 122 credit hours required for degree.

### Geography as a Second Major

- Minimum of 27 credit hours

A student may obtain a second major in geography along with any other major. The student should take 27 credits, including four core courses listed above for the Geography Major. Students considering this option should consult a faculty member in the department.

### Geography Major as a Second Academic Concentration for Elementary Education Majors

- Minimum of 18 credit hours

### Core Courses

Select one of the following:

- GES 121 Introduction to Geographic Information Science
- GES 322 Research Methods in Geography
- GES 357 Principles of Cartography
- GES 358 Geographic Information Systems
- GES 359 Remote Sensing of Environment

Select one of the following:

- GES 103 Introduction to Earth Science
- GES 106 Geosystems Science
  & 106L and Geosystems Science Laboratory

Select one of the following:

- GES 105 Introduction to Human Geography
- GES 301 Urban Geography: Global Patterns
- GES 302 Urban Geography: Land Use
- GES 303 World Population Problems
- GES 306 World Economic Geography
- GES 315 The Geography of World Affairs

Select one of the following:

- GES 102 The Historical Geography of the Western World
- GES 104 World Regional Geography
GES 313  Natural Resource Regions of North America
GES 344  Geography of the United States and Canada

**Additional Courses**

6

Select any two additional GES courses at the 300 level or higher

**Accelerated B.A. to M.A.**

**Application and Admission**

Qualified UNC Greensboro undergraduate students who are pursuing the B.A. in Geography may apply for admission to the Accelerated Degree Program (Applying for Admission). A cumulative undergraduate GPA of at least 3.5 based on at least 30 hours earned at UNC Greensboro is required. Applicants must have completed at least 60 semester credits and may not apply for admission to the ADP before the first semester of the junior year. Applicants will not be required to take the GRE. All applicants must submit the Request for Accelerated Degree Program to The Graduate School and must simultaneously apply for admission to the graduate degree program.

Admitted students may apply a maximum of 12 credits of graduate-level coursework (each course carries 3 credits) from the following course list toward completion of both the undergraduate and graduate degree, provided they earn a grade of "B" (3.0) or better in each course and fulfill graduate-level requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 402</td>
<td>Entrepreneurial Urban Planning</td>
<td></td>
</tr>
<tr>
<td>GES 404</td>
<td>Political Geography</td>
<td></td>
</tr>
<tr>
<td>GES 418</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GES 419</td>
<td>Advanced Weather and Climate-Synoptic Climatology</td>
<td></td>
</tr>
<tr>
<td>GES 432</td>
<td>Geography of Livable Cities</td>
<td></td>
</tr>
<tr>
<td>GES 457</td>
<td>Advanced Cartography</td>
<td></td>
</tr>
<tr>
<td>GES 459</td>
<td>Advanced Remote Sensing-Imaging</td>
<td></td>
</tr>
<tr>
<td>GES 451</td>
<td>Seminar in Regional Geography</td>
<td></td>
</tr>
<tr>
<td>GES 450</td>
<td>Applied Physical Geography</td>
<td></td>
</tr>
</tbody>
</table>

**Degree Program Requirements**

Please consult with an advisor to determine how the courses taken at the graduate level will meet requirements in the bachelor’s degree program. All degree requirements for the B.A. and M.A. degree in Geography remain the same.