

GEOGRAPHY, B.A.

Students may elect a general geography major or they may complete additional courses for a concentration in Urban Planning, Earth Science, 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

- 120 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.
- No more than 6 credit hours from GES courses numbered 160-170 and 360-400 may be applied to the major.

Degree Program Requirements

Code	Title	Credit Hours
	University Requirements (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/)	
	General Education Requirements (MAC) (https://catalog.uncg.edu/academic-regulations-policies/undergraduate-policies/general-education-program/#generaleducationcorerequirementstext)	
	College of Arts and Sciences Additional Requirements (CIC) (https://catalog.uncg.edu/arts-sciences/#additionalundergraduaterequirementstext)	

Major Requirements

Code	Title	Credit Hours
Geographic Techniques		3
<i>Select one of the following:</i>		
GES 121	Introduction to Geographic Information Science	
GES 322	Research Methods in Spatial Science	
GES 357	Principles of Cartography	
GES 358	Geographic Information Systems	
GES 359	Remote Sensing of Environment	
Earth Science		3-4
<i>Select one option of the following:</i>		
Option A:		
GES 103	Introduction to Earth Science	
Option B:		
GES 103 & 103L	Introduction to Earth Science and Earth Science Laboratory	
Human Geography		3
<i>Select one of the following:</i>		

GES 105	Introduction to Human Geography	
GES 301	Cities of the World	
GES 302	Urban Geography: Sustainable Land Use	
GES 303	World Population Problems	
GES 304	Sustainable Transport and Mobility	
GES 306	World Economic Geography	
GES 315	The Geography of World Affairs	
Regional Geography		3
<i>Select one of the following:</i>		
GES 102	The Historical Geography of the Western World	
GES 104	World Regional Geography	
GES 313	Natural Resource Regions of North America	
GES 333	Geography of Europe	
GES 340	Geography of East Asia	
GES 344	Geography of the United States and Canada	
GES 491	Current Topics in Regional Geography	
GES 451	Seminar in Regional Geography	

Optional Concentrations

Any of the optional concentrations as detailed following the major requirements may be added, but a concentration is not required.

- Earth Science
- Geographic Information Science
- Urban Planning

Electives

Electives sufficient to complete the 120 credit hours required for degree.

Earth Science Concentration Requirements

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.

Code	Title	Credit Hours
Additional Concentration Requirements		23
<i>Required</i>		
GES 319	Weather and Climate	
GES 319L	Climatology Laboratory	
GES 314	Physical Geography: Landscape Processes	
GES 314L	Physical Geography Laboratory	
<i>Select a minimum of five courses of the following:</i>		
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

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 (GES 421), which includes a faculty-directed major project, is completed in the final semester.

Code	Title	Credit Hours
Additional Concentration Requirements		15
<i>Required</i>		
GES 121	Introduction to Geographic Information Science & 121L	
	and Intro to Geographic Information Science Laboratory	
GES 357	Principles of Cartography	
GES 358	Geographic Information Systems	
GES 359	Remote Sensing of Environment	
Select at least 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.

Urban Planning Concentration Requirements

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

Code	Title	Credit Hours
Additional Concentration Requirements		24
<i>Required</i>		
GES 105	Introduction to Human Geography	
GES 301	Cities of the World	
GES 306	World Economic Geography	
Select five of the following:		
GES 302	Urban Geography: Sustainable Land Use	
GES 303	World Population Problems	

GES 304	Sustainable Transport and Mobility
GES 320	Tourism Planning and Development
GES 322	Research Methods in Spatial Science
GES 331	Sustainable Tourism and Transportation
GES 344	Geography of the United States and Canada
GES 357	Principles of Cartography
GES 402	Sustainable Urban Planning in an Entrepreneurial Environment
GES 432	Geography of Livable Cities
GES 433	Regional Economic Development

† Counts toward GEC GNS requirement.

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.

Disciplinary Honors in Geography

Requirements

- A minimum of 12 credit hours as defined below.
- UNC Greensboro cumulative GPA of 3.30 or better or, for transfer students, cumulative GPA of 3.30 or better from all prior institutions.

Code	Title	Credit Hours
Required		3-6
HSS 490	Senior Honors Project	
	or GES 493 Honors Work	
6 credits of Honors course work in the major		6
3 credits of Honors course work in the major or another area		3

Recognition

Receive a Certificate of Disciplinary Honors in Geography; have that accomplishment, along with the title of the Senior Honors Project, noted on the official transcript; and be recognized at a banquet held at the end of the spring semester.

Honors Advisor

Contact Jay Lennartson at gjlennar@uncg.edu for further information and guidance about Honors Geography. To apply: <http://honorscollege.uncg.edu/forms/disc-application.pdf>

Accelerated B.A. to M.A. in Applied Geography

Application and Admission

Qualified UNC Greensboro undergraduate students who are pursuing the B.A. in Geography may apply for admission to the Accelerated Master's Program (AMP). A cumulative undergraduate GPA of at least 3.5 based on at least 30 credits earned at UNC Greensboro is required. Applicants must have completed at least 60 credits and may not apply for admission to the AMP before the first semester of the junior year. Applicants will not be required to take the GRE. All applicants must complete the Accelerated

Master's Program information along with their application for admission to the graduate degree program.

Courses

Admitted students may apply a maximum of 12 credits of graduate-level course work 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:

Code	Title	Credit Hours
GES 602	Sustainable Urban Planning in an Entrepreneurial Environment	3
GES 604	Political Geography	3
GES 618	Biogeography	3
GES 619	Advanced Weather and Climate-Synoptic Climatology	3
GES 632	Geography of Livable Cities	3
GES 650	Applied Physical Geography	3
GES 651	Seminar in Regional Geography	3
GES 657	Advanced Cartography	3
GES 659	Advanced Remote Sensing-Imaging	3

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.