

# GEOGRAPHY, B.S.

## Degree Requirements (120 hours)

### Program of Study

Requirements	Credit Hours
1. Carolina Core	32-44
2. College Requirements	15-18
3. Program Requirements	33-49
4. Major Requirements	24-25

### Founding Documents Requirement

All undergraduate students must take a 3-credit course or its equivalent with a passing grade in the subject areas of History, Political Science, or African American Studies that covers the founding documents including the United State Constitution, the Declaration of Independence, the Emancipation Proclamation and one or more documents that are foundational to the African American Freedom struggle, and a minimum of five essays from the Federalist papers. This course may count as a requirement in any part of the program of study including the Carolina Core, the major, minor or cognate, or as a general elective. Courses that meet this requirement are listed here (<https://academicbulletins.sc.edu/undergraduate/founding-document-courses/>).

## 1. Carolina Core Requirements (32-44 hours)

### CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

*must be passed with a grade of C or higher*

- any CC-CMW courses (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### ARP – Analytical Reasoning and Problem Solving (6-8 hours)

- MATH 122 or MATH 141
- MATH 142 or MATH 170 or MATH 172

### SCI – Scientific Literacy (8 hours)

- Two 4-credit hour CC-SCI courses (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Demonstration of proficiency in one foreign language equivalent to the minimal passing grade on the exit examination in the 122 course is required. Students can demonstrate this proficiency by successfully completing Phase II of the Proficiency Test or by successfully completing the 122 course, including the exit exam administered as part of that course.

- CC-GFL courses (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

*It is strongly recommended that students continuing the study of a foreign language begin college-level study of that language in their first semester and*

*continue in that language until their particular foreign language requirement is completed.*

### GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### CMS – Effective, Engaged, and Persuasive Communication: Spoken Component <sup>1</sup> (0-3 hours)

- any overlay or stand-alone CC-CMS course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### INF – Information Literacy <sup>1</sup> (0-3 hours)

- any overlay or stand-alone CC-INF course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

### VSR – Values, Ethics, and Social Responsibility <sup>1</sup> (0-3 hours)

- any overlay or stand-alone CC-VSR course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>)

<sup>1</sup> **Carolina Core Stand Alone or Overlay Eligible Requirements** – Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours must add up to a minimum of 31 hours. Some programs may have a higher number of minimum Carolina Core hours due to specified requirements.

### Choose at least 1 of the following to fulfill a Carolina Core requirement

*must be passed with a grade of C or higher*

Course	Title	Credits
GEOG 103	Introduction to Geography	3
GEOG 104	Introduction to Physical Geography	3
GEOG 105	The Digital Earth	3
GEOG 121	Globalization and World Regions	3
GEOG 201	Landform Geography	4
GEOG 202	Weather and Climate	4
GEOG 210	Peoples, Places, and Environments	3

## 2. College Requirements (15-18 hours)

### Foreign Language (0-3 hours)

- only if needed to meet 122-level proficiency

## Analytical Reasoning (6 hours)

Course	Title	Credits
STAT 201	Elementary Statistics	3
CSCE 102	General Applications Programming	3
<b>Total Credit Hours</b>		<b>6</b>

## History (3 hours)

The College of Arts and Sciences requires one U.S. History and one non-U.S. History course. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.

Accordingly, please select one of the following:

- One Carolina Core GHS-approved course (<https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/>) primarily focused on U.S. History: HIST 111, HIST 112, HIST 214, or another GHS-approved course determined by the College of Arts and Science to fit this geographic category.
- or
- One Carolina Core GHS-approved course primarily focused on non-U.S. History: HIST 101, HIST 102, HIST 104, HIST 105, HIST 106, HIST 108, HIST 109, GERM 280, FAMS 300, or another GHS-approved course determined by the College of Arts and Sciences to fit this geographic category.

## Social Science and Fine Arts or Humanities (6 hours)

Courses Acceptable for Social Science and Fine Arts or Humanities Credit in Degree Programs in the College of Arts and Sciences (<https://academicbulletins.sc.edu/undergraduate/arts-sciences/courses-acceptable-social-science-fine-arts-humanities/>)

- **Three** hours of Social Science
- **Three** hours of Fine Arts or Humanities

## 3. Program Requirements (33-49 hours)

### Cognate or Minor (12-18 hours)

#### Cognate (12 hours)

The cognate is intended to support the course work in the major. The cognate must consist of twelve (12) hours of courses at the advanced level, outside of but related to the major. The cognate may be taken in one or more departments or programs, depending on the interests of the student and the judgment of the advisor.

Courses offered by departments and programs that are acceptable for cognate credit are outlined in the section titled Courses Acceptable for Cognate Credit in Degree Programs in the College of Arts and Sciences. (<https://academicbulletins.sc.edu/undergraduate/arts-sciences/courses-acceptable-cognate/>)

For cognate course offerings in other colleges, consult the appropriate sections of this bulletin. Some major programs have specific cognate requirements.

It should be emphasized that the cognate is not a second set of elective courses to be chosen at random by the student. The cognate must be approved by the major advisor as being related to the major field of study. Students are urged to consult their major advisors for specific requirements in their major.

Courses applied toward general education requirements cannot be counted toward the cognate.

For Bachelor of Science degrees, grades of D are acceptable for completion of the cognate requirement, except where restricted by the major program.

### Minor (18 hours)

In place of the cognate a student in the College of Arts and Sciences may choose a minor consisting of at least 18 credit hours of prescribed courses. (Some minors in the sciences require a minimum of 16 hours.) The subject area of the minor may be related to the major. Students pursuing interdisciplinary minors who wish to use courses in their major department for minor credit must petition the College Committee on Scholastic Standards and Petitions for permission to do so.

The minor is intended to develop a coherent basic preparation in a second area of study. It differs from the cognate inasmuch as the courses must be concentrated in one area and must follow a structured sequence. Interdisciplinary minors can be designed with the approval of the assistant dean for academic affairs and advising.

Courses applied toward general education requirements cannot be counted toward the minor. No course may satisfy both major and minor requirements. **All minor courses must be passed with a grade of C or higher.** At least half of the courses in the minor must be completed in residence at the University

A list of minor programs of study can be found at Programs A-Z (<https://academicbulletins.sc.edu/undergraduate/programs-az/>).

### Electives (15-37 hours)

No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Note: 4-25 hours of electives will be needed to reach hours to graduate, if completing the B.S. with Distinction.

## 4. Major Requirements (24-25 hours)

*A minimum grade of C is required in all major courses.*

### Concentrations (24-25 hours)

Students must choose one of the following three concentrations:

#### General Geography (24 hours)

At least two courses for the major must be from the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement.

Course	Title	Credits
GEOG 495	Seminar in Geography	3
Geography Elective: Select two courses at the 200-level or above with advisor's approval. <sup>1</sup>		6
Select 15 hours from the following: <sup>1</sup>		15
GEOG 285	Introduction to Drones for Airborne Spatial Data	
GEOG 310	Topics in Geography	
GEOG 311	Cultural Geography	
GEOG 312	Geography and Global Geopolitics	
GEOG 313	Economic Geography	
GEOG 321	Sustainable Cities	
GEOG 324	Landscapes of the United States	

GEOG 330	The Geography of Disasters
GEOG 341	Cartography
GEOG 343	Environment and Society
GEOG 344	Geographies of American Cities
GEOG 345	Interpretation of Aerial Photographs
GEOG 346	Climate and Society
GEOG 347	Water as a Resource
GEOG 348	Biogeography
GEOG 349	Cartographic Animation
GEOG 360	Geography of Wind
GEOG 363	Geographic Information Systems
GEOG 365	Hurricanes and Tropical Climatology
GEOG 370	America's National Parks
GEOG 371	Air Pollution Climatology
GEOG 378	World Tourism Geography
GEOG 510	Special Topics in Geographic Research
GEOG 511	Planning and Locational Analysis
GEOG 512	Migration and Globalization
GEOG 515	Political Geography
GEOG 516	Coastal Zone Management
GEOG 521	Landscapes of South Carolina
GEOG 525	Geographical Analysis of Transportation
GEOG 530	Environmental Hazards
GEOG 531	Quantitative Methods in Geographic Research
GEOG 535	Hazards Analysis and Planning
GEOG 541	Advanced Cartography
GEOG 542	Dynamic Cartography
GEOG 544	Geography of the City
GEOG 545	Synoptic Meteorology
GEOG 546	Applied Climatology
GEOG 547	Fluvial Geomorphology
GEOG 549	Water and Watersheds
GEOG 551	Principles of Remote Sensing
GEOG 552	LiDARgrammetric and Photogrammetric Digital Surface Mapping
GEOG 554	Spatial Programming
GEOG 556	WebGIS
GEOG 560	Source Materials for Geographic Instruction
GEOG 561	Contemporary Issues in Geography Education
GEOG 562	Satellite Mapping and the Global Positioning System
GEOG 563	Advanced Geographic Information Systems
GEOG 564	GIS-Based Modeling
GEOG 565	Geographic Information System (GIS) Databases and Their Use
GEOG 566	Social Aspects of Environmental Planning and Management
GEOG 567	Long-Term Environmental Change
GEOG 568	Human Dimensions of Global Environmental Change
GEOG 569	International Development and the Environment
GEOG 570	Geography of Public Land and Water Policy
GEOG 571	Microclimatology

GEOG 573	Climatic Change and Variability
GEOG 575	Digital Techniques and Applications in Remote Sensing
GEOG 581	Globalization and Cultural Questions
GEOG 590	Beach-Dune Interactions

**Total Credit Hours** 24

<sup>1</sup> Courses used to fulfill Carolina Core or College Requirements may not be used again to fulfill these requirements.

### Geographic Information Science (24-25 hours)

At least two courses for the major must be from the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement.

Course	Title	Credits
GEOG 363	Geographic Information Systems	3
Select two of the following:		6
GEOG 341	Cartography	
GEOG 345	Interpretation of Aerial Photographs	
GEOG 531	Quantitative Methods in Geographic Research	
Select three of the following: <sup>1</sup>		9
GEOG 285	Introduction to Drones for Airborne Spatial Data	
GEOG 349	Cartographic Animation	
GEOG 535	Hazards Analysis and Planning	
GEOG 541	Advanced Cartography	
GEOG 542	Dynamic Cartography	
GEOG 551	Principles of Remote Sensing	
GEOG 552	LiDARgrammetric and Photogrammetric Digital Surface Mapping	
GEOG 554	Spatial Programming	
GEOG 556	WebGIS	
GEOG 562	Satellite Mapping and the Global Positioning System	
GEOG 563	Advanced Geographic Information Systems	
GEOG 564	GIS-Based Modeling	
GEOG 565	Geographic Information System (GIS) Databases and Their Use	
GEOG 575	Digital Techniques and Applications in Remote Sensing	
GEOG 495	Seminar in Geography	3
Geography Elective: Select one non-GIScience course at the 200-level or above with advisor's approval.		3-4

**Total Credit Hours** 24-25

<sup>1</sup> GEOG 341, GEOG 345 or GEOG 531 may be used if not used above.

### Physical/Environmental Geography (24 hours)

At least two courses for the major must be from the 500-level. GEOG 595 can be used to fulfill up to 3 hours of geography elective credit, but not the 500-level requirement.

Course	Title	Credits
Select one of the following:		3
GEOG 341	Cartography	
GEOG 345	Interpretation of Aerial Photographs	
GEOG 363	Geographic Information Systems	

GEOG 551	Principles of Remote Sensing	
GEOG 495	Seminar in Geography	3
Select 5-6 courses from the following: <sup>1</sup>		18
GEOG 330	The Geography of Disasters	
GEOG 343	Environment and Society	
GEOG 346	Climate and Society	
GEOG 347	Water as a Resource	
GEOG 348	Biogeography	
GEOG 360	Geography of Wind	
GEOG 365	Hurricanes and Tropical Climatology	
GEOG 370	America's National Parks	
GEOG 371	Air Pollution Climatology	
GEOG 516	Coastal Zone Management	
GEOG 530	Environmental Hazards	
GEOG 535	Hazards Analysis and Planning	
GEOG 545	Synoptic Meteorology	
GEOG 546	Applied Climatology	
GEOG 547	Fluvial Geomorphology	
GEOG 549	Water and Watersheds	
GEOG 566	Social Aspects of Environmental Planning and Management	
GEOG 567	Long-Term Environmental Change	
GEOG 568	Human Dimensions of Global Environmental Change	
GEOG 569	International Development and the Environment	
GEOG 570	Geography of Public Land and Water Policy	
GEOG 571	Microclimatology	
GEOG 573	Climatic Change and Variability	
GEOG 590	Beach-Dune Interactions	
<b>Total Credit Hours</b>		<b>24</b>

<sup>1</sup> GEOG 201 or GEOG 202 may be used if not used to satisfy Carolina Core or College Requirements.

## B.S. with Distinction in Geography (36 hours)

Available to students majoring in Geography who wish to participate in significant research activities in their major field under the supervision of a faculty mentor.

### Prerequisite

A minimum GPA of 3.50 in the major, and 3.30 cumulative, is required to apply for a BA or BS with Distinction in Geography.

### Requirements

- Students must submit a written application for the BS with Distinction in Geography at least eight months before completion of the degree.
- Written sponsorship agreement from a Geography faculty mentor on file in the department.
- An established thesis committee consisting of a tenure-track faculty member in Geography and at least one other tenure-track or research faculty member at the University of South Carolina.
- A written thesis demonstrating significant original work and approved by the thesis committee.
- A public presentation of the Senior Thesis research.

- Successful fulfillment of all requirements below with a minimum GPA of 3.50 in the major and 3.30 cumulative.
- General major requirements, plus 12 additional credit hours including:
  - A minimum of nine credit hours in GEOG 498, or any GEOG 500-level courses (9 hours)
  - GEOG 499

Note: South Carolina Honors College students satisfying the above requirements will graduate with "Honors from the South Carolina Honors College" and with "Distinction in Geography."