



# The University of Georgia

University Council  
Athens, Georgia 30602

August 15, 2012

## UNIVERSITY CURRICULUM COMMITTEE – 2012-2013

Mr. David E. Shipley, Chair

Agricultural and Environmental Sciences - Dr. T. Dean Pringle

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Veterinary Medicine - Dr. K. Paige Carmichael

Graduate School - Dr. Tracie E. Costantino

Undergraduate Student Representative

Graduate Student Representative

Dear Colleagues:

The attached proposal for the following new Areas of Emphasis under the majors in Geography (A.B. and B.S.) will be an agenda item for the August 22, 2012, Full University Curriculum Committee meeting:

Area of Emphasis in Urban and Community Studies (for A.B. and B.S.)

Area of Emphasis in Environmental Geography (for A.B. and B.S.)

Area of Emphasis in Global Environmental Change (for A.B. and B.S.)

Area of Emphasis in Agro-Food Systems and Food Security (for A.B. only)

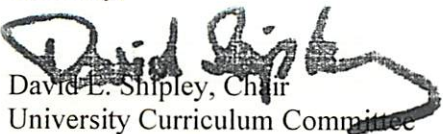
Area of Emphasis in Globalization, Politics, and Economy (for A.B. only)

Area of Emphasis in Earth System Sciences (for B.S. only)

Area of Emphasis in Geospatial Analysis and Visualization (for B.S. only)

Area of Emphasis in Remote Sensing and Photogrammetry (for B.S. only)

Sincerely,



David E. Shipley, Chair  
University Curriculum Committee

cc: Provost Jere W. Morehead  
Dr. Laura D. Jolly



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# The University of Georgia

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Department of Geography  
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Franklin College of Arts and Sciences

Room 204  
Geography/Geology Building  
Athens, Georgia 30602-2502  
USA

19 April 2012

Dr. Hugh Ruppertsberg  
Inerim Dean, Franklin College  
Old College Building  
UGA Campus Mail

Dear Hugh,

The faculty of the Department of Geography compiled a proposal for eight separate "Areas of Emphasis" amongst the A.B. and B.S majors in Geography, which was approved by the Geography Curriculum Committee as well as by unanimous vote of the full Geography Faculty. We believe that these will be beneficial to our majors in helping them to focus their studies and ultimately be more successful on the job market. We understand that the next step is to seek approval by the College Curriculum Committee and you prior to sending it up to the University Curriculum Committee. Thus, we would appreciate it if the attached proposal could be submitted to the Franklin College Curriculum Committee for consideration.

Respectfully,

David S. Leigh  
Professor and Associate Head

### **Urban and Community Studies (for AB or BS degree)**

The *Urban and Community Studies* area of emphasis focuses on the economic, cultural and political factors shaping cities, as well as the experiences of living and building different kinds of communities in and near cities. This area of emphasis relates to careers in urban planning, metropolitan government, economic development, and the non-profit sector.

#### **Pre-requisite:**

GEOG 1103: Cultural Geography of the United States

- Use this course to satisfy either Area E\|V (Social Studies) or Area F\|VI (Major-Related Courses) general studies requirements

**Upper division courses:** You will take a total of 8 upper division courses in Geography

#### ***Cartography*** (1 course):

GEOG 3510/L: Cartography and Graphics

#### ***Core*** (3 courses):

GEOG 3630: Introduction to Urban Geography

Select 2 of the following courses:

GEOG 4630: Advanced Urban Geography (Heynen: Social Movements)

GEOG 4630: Advanced Urban Geography (Holloway: Inequality, Race & the City)

*note: GEOG 4630 may be repeated for up to 6 hours of credit.*

GEOG 4660: Urban and Regional Development (currently not taught)

***Electives*** (3 courses): Select 3 additional courses from the following categories:

#### **Human Geography courses:**

GEOG 3290: Mountain Geography

GEOG 3620: Introduction to Economic Geography

GEOG 3640: The Geography of Human Rights

GEOG 3660: Geography of Food Commodities

GEOG 3690: Introduction to Political Geography (under development)

GEOG 4160: Applied Climatology in the Urban Environment

GEOG 4620: Advanced Economic Geography

GEOG 4640: Population Geography (not currently taught)

GEOG 4680: Gender and Geography

GEOG 4690: Advanced Political Geography (under development)

GEOG 4890: Athens Urban Food Collective (AUFC) Service Learning

#### **Applications/Extensions**

GEOG 3990: Internship in Geography (with an urban/community focus)

GEOG 4370/L: Geographic Information Science

GEOG 4380/L: Transportation Modeling and GIS

***Physical Geography*** (1 course): Select 1 3000- or 4000-level physical geography course.

Note: All Departmental, College and University requirements for the AB degree must be observed.

## **Environmental Geography (for AB or BS degree)**

The *Environmental Geography* area of emphasis provides students with a well-rounded education of the earth's physical and biological systems and settings. It prepares students for careers related to environmental planning, environmental consulting, resource management, and various areas dealing with stewardship of public and private lands.

**Pre-requisite:** GEOG 1125 or GEOG 2250H

**Upper division courses:** You will take a total of 8 upper division courses in Geography

### ***Cartography*** (1 course):

GEOG 3510/GEOG 3510L: Cartography and Graphics

***Core*** (6 courses): Select 2 courses from each of the following areas:

#### **Geomorphology**

GEOG 3010: General Geomorphology  
GEOG 4020: Fluvial Geomorphology  
GEOG 4030: Geomorphology and Environmental Change in Karst and Arid Environments  
GEOG 4040: Global Environmental Change during the Quaternary  
GEOG 4060: Field and Laboratory Methods in Physical Geography  
GEOG 4070: Field Study of Geomorphology  
WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L: Hydrology, Geology, and Soils of Georgia

#### **Climatology**

GEOG 3110: Climatology  
GEOG 3120/L: Weather Analysis and Forecasting  
GEOG 3130: Atmospheric Hazards  
GEOG 3180: (in prep) Global Climate Change  
(GEOG)ENGR 4111/L: Thermodynamics  
GEOG(ENGR) 4112: Atmospheric Dynamics  
GEOG 4114: Atmospheric Dynamics II  
GEOG 4120: Synoptic Meteorology/Climatology  
GEOG 4140: Satellite Meteorology/Climatology  
GEOG 4150: Physical Climatology  
GEOG 4160: Applied Climatology in the Urban Environment  
GEOG 4170/L: Mesoscale and Radar Meteorology /Climatology  
(GEOG)ENGR 4161/L: Environmental Microclimatology  
(GEOG)ENGR 4180: Special Topics in Atmospheric Science  
GEOG 4911: Collaborative Research in Atmospheric Sciences

#### **Biogeography**

GEOG 3210: Biogeography  
GEOG 3290: Mountain Geography  
GEOG 4220: Ecological Biogeography  
GEOG 4240: Plant Geography  
GEOG 4261: Field Studies in Natural Resources  
GEOG 4810: Conservation Ecology and Resource Management  
GEOG 4930: Agroecology in Tropical America  
GEOG 4931: Agroecology in Tropical America Field Trip

***Human Geography*** (1 course)\*: select 1 3000- or 4000-level human geography course

\*an additional human geography course (total of 2) is needed in relation to the AB degree

Note: All Departmental, College and University requirements for the AB or BS degree must be observed.

## **Global Environmental Change (for AB or BS degree)**

The *Global Environmental Change* area of emphasis focuses on dynamic elements of earth's systems that operate at continental to global scales and change on timescales of decades to millions of years. It prepares students for careers broadly related to global environmental change and associated aspects of resource management.

**Upper division courses:** You will take a total of 8 upper division courses in Geography.

### ***Cartography*** (1 course):

GEOG 3510/GEOG 3510L: Cartography and Graphics

### ***Core*** (2 courses):

GEOG 3180 (in prep.): Global Climate Change

GEOG 4040: Global Environmental Change during the Quaternary

***Electives*** (4 courses. Select one from each of the four categories):

#### **Geomorphology**

GEOG 3010: General Geomorphology

GEOG 4020: Fluvial Geomorphology

GEOG 4030: Geomorphology and Environmental Change in Karst and Arid Environments

GEOG 4060: Field and Laboratory Methods in Physical Geography

GEOG 4070: Field Study of Geomorphology

WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L: Hydrology, Geology, and Soils of Georgia

#### **Climatology**

GEOG 3110: Climatology

GEOG 3120/L: Weather Analysis and Forecasting

GEOG 3130: Atmospheric Hazards

GEOG 4120: Synoptic Meteorology/Climatology

GEOG 4150: Physical Climatology

GEOG 4160: Applied Climatology in the Urban Environment

#### **Biogeography**

GEOG 3210: Biogeography

GEOG 3290: Mountain Geography

GEOG 4220: Ecological Biogeography

GEOG 4240: Plant Geography

GEOG 4810: Conservation Ecology and Resource Management

#### **Remote Sensing**

GEOG 4140: Satellite Meteorology/Climatology

GEOG 4350/L: Remote Sensing of Environment (PR: 4330)

***Human Geography*** (1 course)\*: select 1 3000- or 4000-level human geography course

\*an additional human geography course (total of 2) is needed in relation to the AB degree

Note: All Departmental, College and University requirements for the AB & BS degree must be observed.

### **Agro-Food Systems and Food Security (for AB degree only)**

The *Agro-Food Systems and Food Security* area of emphasis focuses on the structure and dynamics of the industrial agro-food system, as well as the many and varied critiques leveraged against that system. Emphasis is given to understanding the ways in which alternative food systems and networks seek to address the weaknesses of the industrial system. Themes include globalization, hunger and food insecurity, sustainable farming, local and regional food systems, food safety, food justice, and food sovereignty. This area of emphasis relates to careers in the rapidly growing alternative food networks sector, as well as shaping food policy at multiple levels of governance.

**Upper division courses:** You will take a total of 8 upper division courses in Geography

***Cartography*** (1 course):

GEOG 3510/L: Cartography and Graphics

***Core*** (choose 3 of the following courses):

GEOG 3660: Geography of Food Commodities

GEOG 4670: Geography of Development

GEOG 4860: The Industrial Food System and its Alternative

GEOG 4890: Athens Urban Food Collective (AUFC) Service Learning

***Electives*** (3 courses): Select 3 additional courses from the following categories:

Human Geography

GEOG 3290: Mountain Geography

GEOG 3620: Introduction to Economic Geography

GEOG 3630: Introduction to Urban Geography

GEOG 3640: The Geography of Human Rights

GEOG 3690: Introduction to Political Geography (under development)

GEOG 4620: Advanced Economic Geography

GEOG 4630: Advanced Urban Geography

GEOG 4640: Population Geography (not currently taught)

GEOG 4680: Gender and Geography

GEOG 4690: Advanced Political Geography (under development)

CRSS(HORT)(ANTH)(ECOL)(GEOG) 4930/6930: Agroecology of Tropical America

Applications/Extensions

GEOG 3990: Internship in Geography (with a food focus)

GEOG 4375: GIS Applications in Agriculture (not currently taught)

GEOG 4890: Athens Urban Food Collective (AUFC) Service Learning

***Physical Geography*** (1 course): Select 1 3000- or 4000-level physical geography course.

Note: All Departmental, College and University requirements for the AB degree must be observed.

### **Globalization, Politics & Economy (for AB degree only)**

The *Globalization, Politics & Economy* area of emphasis provides an understanding of the macro- and micro-economic factors and political relationships shaping the interdependent world system today. Political and economic perspectives of the core intersect with electives to frame more specific areas of human geography. This area of emphasis relates to careers in international business, the government sector (local to international levels), international development organizations, labor organizations, and the non-profit sector.

#### **Pre-requisite:**

GEOG 1103: Cultural Geography of the United States

- Use this course to satisfy either Area E\V (Social Studies) or Area F\VI (Major-Related Courses) general studies requirements

**Upper division courses:** You will take a total of 8 upper division courses in Geography

#### ***Cartography*** (1 course):

GEOG 3510/GEOG 3510L: Cartography and Graphics

***Core*** (3 courses): Select 3 of the following courses (courses not selected for the Area of emphasis Core can be used for the Area of emphasis Elective):

GEOG 3620: Introduction to Economic Geography

GEOG 3640: The Geography of Human Rights

GEOG 3690: Introduction to Political Geography

GEOG 4620: Advanced Economic Geography

GEOG 4690: Advanced Political Geography

***Electives*** (3 courses): Select 3 additional courses from the following categories:

#### **Human Geography**

GEOG 3290: Mountain Geography

GEOG 3630: Introduction to Urban Geography

GEOG 3660: Geography of Food Commodities

GEOG 4630: Advanced Urban Geography

GEOG 4640: Population Geography (not currently taught)

GEOG 4660: Urban and Regional Development (not currently taught)

GEOG 4670: Geography of Development

GEOG 4680: Gender and Geography

GEOG 4720: Geography of Latin America

GEOG 4860: The Industrial Food System and its Alternatives

GEOG 4890: Athens Urban Food Collective (AUFC) Service Learning

#### **Applications/Extensions**

GEOG(AFST) 3650: Africa in the Global Economy (not currently taught)

GEOG 3990: Internship in Geography (with a globalization &/or human rights focus)

GEOG 4710-4750: Regional Course

***Physical Geography*** (1 course): Select 1 3000- or 4000-level physical geography course.

Note: All Departmental, College and University requirements for the AB degree must be observed.

## **Earth System Science (for BS degree only)**

The *Earth System Science* area of emphasis incorporates an integrated systems approach which is more quantitative than the *Environmental Geography* area of emphasis. It involves digital analysis of earth and atmospheric systems through use of remote sensing and/or geographic information systems. Students are prepared for careers with scientific agencies and companies concerned with physical systems of the environment and resource management, particularly in situations that call for knowledge of computerized techniques.

### **Pre-requisite:**

CSCI 1210: (Computer Modeling and Science) OR CSCI 1301/L: (Introduction to Computing and Programming).

- Use one of these courses to satisfy Area F (Major-Related Courses) BS general studies requirements

MARS 1010: The Marine Environment

- You may use this course to satisfy the lab science requirement (currently, MARS is not among the list of classes to satisfy this requirement).

**Upper division courses:** You will take a total of 8 upper division courses in Geography.

### ***Cartography*** (1 course):

GEOG 3510/GEOG 3510L: Cartography and Graphics

***Core*** (6 courses): 4 courses in Physical Geography (Geomorphology, Climatology, Biogeography) and two courses from GIS/Remote Sensing/Image Analysis

***Physical Geography*** (4 courses): select 1 course from each of the following areas (geomorphology, climatology, biogeography) plus another one from any of those three physical geography areas.

#### **Geomorphology**

GEOG 3010: General Geomorphology  
GEOG 4020: Fluvial Geomorphology  
GEOG 4030: Geomorphology and Environmental Change in Karst and Arid Environments  
GEOG 4040: Global Environmental Change during the Quaternary  
GEOG 4060: Field and Laboratory Methods in Physical Geography  
GEOG 4070: Field Study of Geomorphology  
WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L: Hydrology, Geology, and Soils of Georgia

#### **Climatology**

GEOG 3110: Climatology  
GEOG 3120/L: Weather Analysis and Forecasting  
GEOG 3130: Atmospheric Hazards  
GEOG 3180: (in prep) Global Climate Change  
(GEOG)ENGR 4111/L: Thermodynamics  
GEOG(ENGR) 4112: Atmospheric Dynamics  
GEOG 4114: Atmospheric Dynamics II  
GEOG 4120: Synoptic Meteorology/Climatology  
GEOG 4140: Satellite Meteorology/Climatology  
GEOG 4150: Physical Climatology  
GEOG 4160: Applied Climatology in the Urban Environment  
GEOG 4170/L: Mesoscale and Radar Meteorology /Climatology  
(GEOG)ENGR 4161/L: Environmental Microclimatology  
(GEOG)ENGR 4180: Special Topics in Atmospheric Science  
GEOG 4911: Collaborative Research in Atmospheric Sciences



Earth System Science (continued):

Biogeography

GEOG 3210:	Biogeography
GEOG 3290:	Mountain Geography
GEOG 4220:	Ecological Biogeography
GEOG 4240:	Plant Geography

***Remote Sensing/Image Analysis*** (2 courses): select 2 course from the following:

GEOG 4140:	Satellite Meteorology/Climatology
GEOG 4330/L:	Aerial Photographs and Image Interpretation
GEOG 4350/L:	Remote Sensing of Environment (PR: 4330)
GEOG 4370/L:	Geographic Information Science
GEOG 4430/L:	Advanced Image Analysis and Photogrammetry (PR: 4330 or 4350)

→ ***Human Geography*** (1 course): select 1 3000- or 4000-level human geography course

Note: All Departmental, College and University requirements for the BS degree must be observed.

### **Geospatial Analysis and Visualization (for BS degree only)**

The *Geospatial Analysis and Visualization* area of emphasis provides students with concepts, principles and techniques of geographic information science (GIScience) that focus on spatial analysis, modeling and cartographic mapping, including interactive and animated visualizations. This area of emphasis will prepare students for careers related to cultural and resource management, planning, environmental design and sustainable development that require geographic data analysis and display.

**Upper division courses:** You will take a total of 8 upper division courses in Geography.

#### **Required Courses:** (4 courses)

GEOG 3510:	Cartography and Graphics
*GEOG 4370-4370L:	Geographic Information Science
*GEOG 4410-4410L:	Cartographic Visualization Methods
GEOG 4470-4470L:	Geospatial Analysis

#### **Elective Course:** (select 1 course)

GEOG 4300:	Introductory Spatial Analysis
GEOG 4350-4350L:	Remote Sensing of Environment
GEOG 4380-4380L:	Transportation Modeling and GIS
*GEOG 4330-4330L:	Aerial Photographs and Image Interpretation
GEOG 4570-4570L:	Advanced GIScience
GEOG 4590-4590L:	Programming for GIScience

**Human Geography** (1 course): Select 1 3000- or 4000-level human geography course.

**Physical Geography** (2 courses): Select 2 3000- or 4000-level physical geography courses.

#### **Additional Information:**

Note: All Departmental, College and University requirements for the BS degree must be observed.

Students who achieve a 3.0 GPA in required and elective courses of Geospatial Analysis and Visualization area of emphasis may be qualified for a **GIScience** certificate. Please check UGA's GIScience Certificate Program for details.

\*core courses for the GIScience Certificate

### **Remote Sensing and Photogrammetry (for BS degree only)**

The *Remote Sensing and Photogrammetry* area of emphasis will provide students with principles and practice in the use of remote sensing data, sensors and applications including optical, radar and Light Detection and Ranging (LiDAR) technologies. Students will study photogrammetry, which is the science of making measurements from traditional aerial photographs and images from digital cameras. This area of emphasis will prepare students for careers in fields such as natural and cultural resource monitoring, geospatial intelligence, planning and disaster response.

**Upper division courses:** You will take a total of 8 upper division courses in Geography.

#### **Required Courses:** (4 courses)

GEOG 3510:	Cartography and Graphics
*GEOG 4370-4370L:	Geographic Information Science
*GEOG 4330-4330L:	Aerial Photographs and Image Interpretation
GEOG 4350-4350L:	Remote Sensing of Environment

#### **Elective Courses:** (select 1 course)

GEOG 4140:	Satellite Meteorology/Climatology
*GEOG 4410-4410L:	Cartographic Visualization Methods
GEOG 4430-4430L:	Advanced Image Analysis and Photogrammetry
GEOG 4470-4470L:	Geospatial Analysis
GEOG 4570-4570L:	Advanced GIScience
GEOG 4590-4590L:	Programming for GIScience

**Human Geography** (1 course): Select 1 3000- or 4000-level human geography course.

**Physical Geography** (2 courses): Select 2 3000- or 4000-level physical geography course.

#### **Additional Information:**

Note: All Departmental, College and University requirements for the BS degree must be observed.

Students who achieve a 3.0 GPA in required and elective courses of Remote Sensing and Photogrammetry area of emphasis may be qualified for a **GIScience** certificate. Please check UGA's GIScience Certificate Program for details.

\*core courses for the GIS Certificate

Home / Majors

## Geography - A.B.

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### DEGREE REQUIREMENTS

Entrance Requirements for the Major

**General Education Core Curriculum**  
(Selected with the advice of an academic advisor)

Areas I II III IV V

Area VI

Major Requirements

*College-wide Requirements must be satisfied in order to graduate with this major*

**TOTAL DEGREE HOURS** 120 hours

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Basic View

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### I. FOUNDATION COURSES (9 HOURS)

ENGL 1101 or ENGL 1101E

ENGL 1102 or ENGL 1102E or ENGL 1102M or ENGL 1050H or ENGL 1060H

MATH 1101 or MATH 1113 or MATH 2200 or MATH 2250 or MATH 2300H or MATH 2400 or MATH 2400H or MATH 2410 or MATH 2410H

### II. SCIENCES (7-8 HOURS)

At least one of the physical science or life science courses must include a laboratory.

**Physical Sciences (3-4 hours)**

**Preferred Course(s):** (GEOG 1111 and GEOG 1111L) or (GEOG 2110H and GEOG 2110L) or (GEOG 1112 or GEOG 1112L) or (GEOG 2120H or GEOG 1112L) or (GEOG 1113 and GEOG 1113L)

**Life Sciences (3-4 hours)**

No preferred courses for this area. See Core Curriculum view.

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### III. QUANTITATIVE REASONING (3-4 HOURS)

No preferred courses for this area. See Core Curriculum view.

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### IV. WORLD LANGUAGES AND CULTURE, HUMANITIES AND THE ARTS (12 HOURS)

**World Languages and Culture (9 hours)**

**Preferred Course(s):** GEOG 1101 or GEOG 2010H-2010D

**Humanities and the Arts (3 hours)**

No preferred courses for this area. See Core Curriculum view.

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### V. SOCIAL SCIENCES (9 HOURS)

- Students who have not met the Georgia and U.S. Constitution requirement by examination should enroll in POLS 1101.
- A passing grade on an examination on the history of the United States and Georgia is required to satisfy the United States and Georgia History Requirement for all persons receiving a baccalaureate degree from the University, unless exempted by one of the following courses: HIST 2111, HIST 2112. Examinations are given to freshmen during orientation and twice each semester by the History Department. Reexamination is permitted. Examination dates are announced in the *Schedule of Classes*.

**Preferred Course(s):** GEOG 1103 or GEOG 1125

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### Area VI

1. GEOG 2300 or STAT 2000 or STAT 2100H
2. Foreign Language (third semester)
3. Choose a total of four courses from the course lists below (not taken in Area V):

AFAM 2000 or AFAM 2000H  
ECON 2105 or ECON 2105H  
ECON 2106 or ECON 2106H  
PHIL 2020 or PHIL 2020H  
SOCI 2600  
WMST 2010 or WMST 2010H

No more than two courses from the following:

AFST(ANTH)(CMLT)(GEOG)(HIST)(SOCI) 2100  
GEOG 1103 or GEOG 2130H-2130D  
GEOG 1125 or GEOG 2250H-2250D  
GEOG 2610

No more than one from the following:

Fourth semester of a Foreign Language  
 One 2000-level SOCI course not listed above  
 One 2000-level HIST course beyond the course taken in Area V

4. If items 1 or 2 above have been satisfied elsewhere in the core, students may make up their 18 semester hours with additional options listed under item 3.
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### MAJOR REQUIREMENTS

A baccalaureate degree program must require at least 21 semester hours of upper division courses in the major field and at least 39 semester hours of upper division work overall.  
 Students in the Franklin College must earn a grade of "C" (2.0) or better in major required courses.

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#### Required Courses (24-26 hours)

(A minimum grade of "C" (2.0) must be earned in each upper-division course.)

#### GEOG 3510-3510L

Choose two courses from Group A listed below

Choose one course from Group B listed below

Choose four courses from the four groups listed below

(At least two of the seven selected courses must be 4000-level courses from Group A and/or Group C)

No more than six (6) credit hours from Group D may be counted towards satisfying the major requirements.

#### Group A -- Human/Regional Geography

*Systematic focus:*

<u>GEOG 3620</u>	<u>GEOG 4640/6640</u>
<u>GEOG 3630</u>	<u>GEOG 4650/6650</u>
<u>GEOG 3640</u>	<u>GEOG 4660/6660</u>
<u>GEOG 3660</u>	<u>GEOG 4670/6670</u>
<u>GEOG 4610/6610</u>	<u>GEOG 4680/6680</u>
<u>GEOG 4620/6620</u>	<u>GEOG 4860/6860</u>
<u>GEOG 4630/6630</u>	<u>GEOG 4890/6890</u>

*Regional focus:*

<u>GEOG(AFST) 3650</u>	<u>GEOG 4730/6730</u>
<u>GEOG 4290/6290</u>	<u>GEOG 4740/6740</u>
<u>GEOG 4710/6710</u>	<u>GEOG 4750/6750</u>
<u>GEOG 4720/6720</u>	

**Group B -- Physical Geography***Geomorphology*

<u>GEOG 3010</u>	<u>GEOG 4040/6040</u>
<u>GEOG 4020/6020</u>	<u>GEOG 4060/6060</u>
<u>GEOG 4030/6030</u>	<u>WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L</u>

*Climatology*

<u>ENGR(GEOG) 4111/6111-4111L/6111L</u>	<u>GEOG 4114/6114</u>
<u>ENGR(GEOG) 4161/6161-4161L/6161L</u>	<u>GEOG 4120/6120</u>
<u>ENGR(GEOG) 4180/6180</u>	<u>GEOG 4140/6140</u>
<u>GEOG 3110</u>	<u>GEOG 4150/6150</u>
<u>GEOG 3120-3120L</u>	<u>GEOG 4160/6160</u>
<u>GEOG 3130</u>	<u>GEOG 4170/6170-4170L/6170L</u>
<u>GEOG(ENGR) 4112/6112</u>	<u>GEOG 4911/6911</u>

*Biogeography*

<u>CRSS(HORT)(ANTH)(ECOL)(GEOG) 4930/6930</u>	<u>GEOG 3290</u>
<u>CRSS(HORT)(ANTH)(ECOL)(GEOG) 4931/6931</u>	<u>GEOG(PBIO) 4220/6220</u>
<u>FANR(ANTH)(ECOL)(GEOG)(INTL)(RLST) 4271/6271</u>	<u>GEOG(PBIO) 4240/6240</u>
<u>FORS(ECOL)(GEOG) 4250/6250</u>	<u>GEOG 4290/6290</u>
<u>GEOG 3210</u>	<u>GEOG 4810/6810</u>

**Group C -- Geographic Techniques**

<u>GEOG 3990</u>	<u>GEOG 4380/6380-4380L/6380L</u>
<u>GEOG 4300/6300</u>	<u>GEOG 4410/6410-4410L/6410L</u>

GEOG 4305/6305

GEOG 4430/6430-4430L/6430L

GEOG 4310/6310-4310L/6310L

GEOG 4470/6470-4470L/6470L

GEOG 4330/6330-4330L/6330L

GEOG 4570/6570-4570L/6570L

GEOG 4350/6350-4350L/6350L

GEOG 4590/6590-4590L/6590L

GEOG 4370/6370-4370L/6370L

GEOG 4610/6610

GEOG(CRSS) 4375/6375

GEOG 4920/6920

**Group D -- Miscellaneous Geography Courses**

GEOG 3990

GEOG 4980H

GEOG 4921/6921

GEOG 4990H

GEOG 4970H

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**General Electives (34-36 hours)**

(Refer to College-wide requirements when selecting general electives.)

Upper division (19-30 hours)

Any level (4-17 hours)

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(This total does not include the 1-hour P.E. requirement)

Home / Majors

# Geography - B.S.

## DEGREE REQUIREMENTS

### Entrance Requirements for the Major

### General Education Core Curriculum (Selected with the advice of an academic advisor)

Areas I II III IV V

Area VI

### Major Requirements

*College-wide Requirements must be satisfied in order to graduate with this major*

**TOTAL DEGREE HOURS** 120 hours

Basic View

## I. FOUNDATION COURSES (9 HOURS)

ENGL 1101 or ENGL 1101E

ENGL 1102 or ENGL 1102E or ENGL 1102M or ENGL 1050H or ENGL 1060H

MATH 1113 or MATH 2200 or MATH 2250 or MATH 2300H or MATH 2400 or MATH 2400H or MATH 2410 or MATH 2410H

## II. SCIENCES (7-8 HOURS)

At least one of the physical science or life science courses must include a laboratory.

Physical Sciences (3-4 hours)

**Preferred Course(s):** (GEOG 1111 and GEOG 1111L) or (GEOG 2110H and GEOG 2110L) or (GEOG 1112 and GEOG 1112L) or (GEOG 2120H and GEOG 1112L) or (GEOG 1113 and GEOG 1113L)

Life Sciences (3-4 hours)

No preferred courses for this area. See Core Curriculum view.

## III. QUANTITATIVE REASONING (3-4 HOURS)

No preferred courses for this area. See Core Curriculum view.

## IV. WORLD LANGUAGES AND CULTURE, HUMANITIES AND THE ARTS (12 HOURS)

**World Languages and Culture (9 hours)**

**Preferred Course(s):** GEOG 1101 or GEOG 2010H-2010D

**Humanities and the Arts (3 hours)**



No preferred courses for this area. See Core Curriculum view.

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### V. SOCIAL SCIENCES (9 HOURS)

- Students who have not met the Georgia and U.S. Constitution requirement by examination should enroll in POLS 1101.
- A passing grade on an examination on the history of the United States and Georgia is required to satisfy the United States and Georgia History Requirement for all persons receiving a baccalaureate degree from the University, unless exempted by one of the following courses: HIST 2111, HIST 2112. Examinations are given to freshmen during orientation and twice each semester by the History Department. Reexamination is permitted. Examination dates are announced in the *Schedule of Classes*.

**Preferred Course(s):** GEOG 1103 or GEOG 2130H-2130D or GEOG 1125 or GEOG 2250H-2250D

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### Area VI

1. GEOG 2300 or STAT 2000 or STAT 2100H
2. (MATH 2200 or MATH 2300H) or [MATH 2310H or MATH 2400H or MATH 2410H] or MATH 2250\* or MATH 2260
3. CSCI 1100-1100L or MIST 2190H or CSCI 1210 or CSCI 1301-1301L
4. Two lab science courses, beyond those required under Area II, in BIOL, CHEM, GEOG, GEOL, or PHYS (both courses can be from the same department)
5. If items 1, 2, or 3 above have been satisfied elsewhere in the core, students may make up the remainder of their eighteen semester hours with 1000/2000-level courses in BIOL, CHEM, CSCI, ECOL, GEOG, GEOL, MATH (2000-level), PHYS, or STAT.

\* MATH 2250 is strongly encouraged for a meteorology/climatology focus.

If any of the courses in Area VI have been used to satisfy Areas II-V of the Core Curriculum, General Electives may be taken here. (Refer to College-wide requirements when selecting General Electives)

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### MAJOR REQUIREMENTS

A baccalaureate degree program must require at least 21 semester hours of upper division courses in the major field and at least 39 semester hours of upper division work overall.  
Students in the Franklin College must earn a grade of "C" (2.0) or better in major required courses.

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#### Required Courses (24-26 hours)

(A minimum grade of "C" (2.0) must be earned in each upper-division course.)

#### GEOG 3510-3510L

Choose two courses from Group B listed below

Choose one course from Group A listed below

Choose four courses from the four groups listed below

(At least two of the seven selected courses must be 4000-level courses from Group B and/or Group C)

No more than six (6) credit hours from Group D may be counted towards satisfying the major requirements.

#### Group A -- Human/Regional Geography

*Systematic focus:*

GEOG 3620

GEOG 4640/6640

GEOG 3630

GEOG 4650/6650

GEOG 3640

GEOG 4660/6660

GEOG 3660GEOG 4670/6670GEOG 4610/6610GEOG 4680/6680GEOG 4620/6620GEOG 4860/6860GEOG 4630/6630GEOG 4890/6890*Regional focus:*GEOG(AFST) 3650GEOG 4730/6730GEOG 4290/6290GEOG 4740/6740GEOG 4710/6710GEOG 4750/6750GEOG 4720/6720**Group B -- Physical Geography***Geomorphology*GEOG 3010GEOG 4040/6040GEOG 4020/6020GEOG 4060/6060GEOG 4030/6030WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L*Climatology*ENGR(GEOG) 4111/6111-4111L/6111LGEOG(ENGR) 4112/6112ENGR(GEOG) 4161/6161-4161L/6161LGEOG 4120/6120ENGR(GEOG) 4180/6180GEOG 4140/6140GEOG 3110GEOG 4150/6150GEOG 3120-3120LGEOG 4160/6160GEOG 3130GEOG 4170/6170-4170L/6170LGEOG 4114/6114GEOG 4911/6911*Biogeography*CRSS(HORT)(ANTH)(ECOL)(GEOG) 4930/6930GEOG 3290CRSS(HORT)(ANTH)(ECOL)(GEOG) 4931/6931GEOG(PBIO) 4220/6220FANR(ANTH)(ECOL)(GEOG)(INTL)(RLST) 4271/6271GEOG(PBIO) 4240/6240FORS(ECOL)(GEOG) 4250/6250GEOG 4290/6290GEOG 3210GEOG 4810/6810**Group C -- Geographic Techniques**GEOG 3990GEOG 4430/6430-4430L/6430LGEOG 4300/6300GEOG 4470/6470-4470L/6470LGEOG 4305/6305GEOG 4570/6570-4570L/6570LGEOG 4310/6310-4310L/6310LGEOG 4590/6590-4590L/6590L

GEOG 4330/6330-4330L/6330L

GEOG 4610/6610

GEOG 4350/6350-4350L/6350L

GEOG 4920/6920

GEOG 4370/6370-4370L/6370L

GEOG(CRSS) 4375/6375

GEOG 4380/6380-4380L/6380L

GEOG 4410/6410-4410L/6410L

**Group D -- Miscellaneous Geography Courses**

GEOG 3990

GEOG 4980H

GEOG 4921/6921

GEOG 4990H

GEOG 4970H

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**General Electives (34-36 hours)**

(Refer to College-wide requirements when selecting general electives.)

Upper division (19-30 hours)

Any level (4-17 hours)

(This total does not include the 1-hour P.E. requirement)