



# Geography, B.S. *major*

## Giscience Emphasis

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Required Credits: 49  
 Required GPA: 2.25

- ENVR 2000 Introduction to Environmental Science (3 credits)
- GEOL 3120 Soils (4 credits)  
*or* BIOL 3120 Soils (4 credits)
- GEOL 4300 Global Environmental Change (3 credits)
- STAT 3610 Time Series Analysis (3 credits)
- TADT 1460 2D Graphics And Laser Etching (3 credits)

### I REQUIRED CORE COURSES

Complete the following courses:

- BUAD 2231 Business Statistics I (3 credits)  
*or* PSY 3401 Basic Statistics for Research (4 credits)  
*or* STAT 2610 Applied Statistics (4 credits)
- ENGL 2150 Technical Writing (3 credits)  
*or* ENGL 3150 Writing In The Disciplines (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- GEOG 3410 Geography of North America (3 credits)  
*or* GEOG 3800 Regional Geography (1-3 credits)  
*or* GEOG 3810 Geography of Europe (3 credits)  
*or* GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)  
*or* GEOG 3840 Geography of Africa (3 credits)  
*or* GEOG 3850 Geography of the Middle East (3 credits)  
*or* GEOG 3860 Geography of Latin America and the Caribbean (3 credits)
- *or* GEOG 3870 Planning for Sustainable Cities (3 credits)
- GEOG 4265 Spatial Analysis (3 credits)

### II GIScience EMPHASIS

#### REQUIRED EMPHASIS CORE

Complete the following courses:

- CS 1309 Problem Solving and Computation (3 credits)
- CS 2270 Introduction to Web Programming (3 credits)
- CS 2321 Computer Science I (4 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)  
*or* GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 3226 Cartography (3 credits)
- GEOG 3255 Introduction to Remote Sensing (3 credits)
- GEOG 4275 Advanced Geographic Information Systems (3 credits)
- GEOG 4970 Internship (3 credits)

Select 2 of the following courses:

- GEOG 2400 Introduction to Planning (3 credits)
- GEOG 3125 Weather and Climate (3 credits)
- GEOG 3400 Economic Geography (3 credits)
- GEOG 3560 Metropolitan Land Use Planning (3 credits)
- GEOG 3580 Regional Development Planning (3 credits)
- GEOG 3630 Conservation Biology (3 credits)  
*or* BIOL 3630 Conservation Biology (3 credits)
- GEOG 3870 Planning for Sustainable Cities (3 credits)
- GEOG 4130 Biogeography (3 credits)
- GEOG 4140 Landscape Ecology (3 credits)
- GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
- BUAD 4385 Data Modeling and Visualization (3 credits)
- CS 2322 Computer Science II (4 credits)
- CS 3270 Advanced Web Programming (3 credits)
- CS 3507 Introduction to Databases (3 credits)
- ECON 2000 Principles of Microeconomics (3 credits)
- ECON 3040 Environmental Economics (3 credits)  
*or* ENVR 3040 Environmental Economics (3 credits)