



# Geography, B.S. *major*

## Geographic Information Systems Emphasis

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Required Credits: 55.0  
 Required GPA: 2.25

### REQUIRED CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- ENGL 3150 Writing In The Disciplines (3 credits)
- GEOG 1224 Introduction to Map Use (3 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 2225 Aerial Photography And Remote Sensing (3 credits)
- GEOG 2300 Economic Geography (3 credits)
- GEOG 2400 Introduction to Planning (3 credits)
- GEOG 3226 Cartography (3 credits)
- GEOG 3310 Land Use Analysis And Planning (3 credits)
- GEOG 3320 Regional Planning Methods (3 credits)
- GEOG 4120 Urban Geography (3 credits)
- GEOG 4190 Field Geography (3 credits)
- GEOG 4200 Quantitative Procedures In Geographic Investigation (3 credits)

### GEOGRAPHIC INFORMATION SYSTEMS (GIS)

#### REQUIRED PLANNING CORE

COMPLETE THE FOLLOWING COURSES:

- GEOG 2231 Geographic Information Systems (3 credits)
- GEOG 2232 Techniques In Geographic Information Systems (3 credits)
- GEOG 4233 Advanced Geographic Information Systems (GIS) (3 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 4910 Directed Independent Study (4 credits)
- GEOG 4970 Internship (4 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 4110 Advanced Physical Geography (3 credits)
- IT 1460 Technical Graphics (3 credits)

### SUGGESTED SEMESTER SCHEDULE FOR GEOGRAPHY MAJORS

The following is a list of Geography Major courses arranged by year. This schedule is intended to help students plan their courses in an orderly fashion; however, these are only suggestions and this schedule is flexible. Majors and minors in geography are strongly encouraged to meet with advisors in the Geography program prior to selecting courses.

#### Freshman

- GEOG 1224 Introduction to Map Use (3 credits)
- GEOG 1400 World Regional Geography (3 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 2231 Geographic Information Systems (3 credits)
- GEOG 2300 Economic Geography (3 credits)
- Liberal Education requirements

#### Sophomore

- ENGL 3150 Writing In The Disciplines (3 credits)
- GEOG 2225 Aerial Photography And Remote Sensing (3 credits)
- GEOG 2232 Techniques In Geographic Information Systems (3 credits)
- GEOG 2400 Introduction to Planning (3 credits)
- GEOG 3310 Land Use Analysis And Planning (3 credits)
- GEOG 3320 Regional Planning Methods (3 credits)
- GEOG 3410 Geography of North America (3 credits)
- Electives in Geography (select one - GEOG 2500 Political Geography or GEOG 3300 Geography and Planning of Outdoor Recreation)
- Complete Liberal Education requirements

#### Junior/

#### Senior

- GEOG 3226 Cartography (3 credits)
- GEOG 3800 Regional Geography (1-3 credits)
- or any course in the 3800 series, i.e., Europe, Asia, or Africa
- GEOG 4110 Advanced Physical Geography (3 credits)
- or GEOG 3520 Site and Resource Analysis in Outdoor Recreation Planning (3 credits)
- GEOG 4120 Urban Geography (3 credits)
- GEOG 4190 Field Geography (3 credits)
- GEOG 4200 Quantitative Procedures In Geographic Investigation (3 credits)
- GEOG 4210 The History and Development of Geographic Thought (3 credits)
- GEOG 4233 Advanced Geographic Information Systems (GIS) (3 credits)