

Bachelor of Science (BS)
Degree Code 241*
Concentration Code 241D

Program of Study for Geography Majors
GEOGRAPHIC INFORMATION SYSTEMS

I. GENERAL EDUCATION CURRICULUM44

GHY 1010, 1020, and/or 1040 may be used to meet General Education courses depending upon choices.

II. MAJOR REQUIREMENTS66

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

A. Program Core Requirements (45 hours)

- GHY 1010 ____ (3) Introduction to Physical Geography
- GHY 1020 ____ (3) World Regional Geography **OR** GHY 1040 ____ (3) Intro to Human Geography
- GHY 2310 ____ (3) Cartographic Design & Analysis
- GHY 2812 ____ (3) Geospatial Data and Technology
- GHY 3000 ____ (3) Communicating Geographic Information [**WID**] (Pre: ENG 2001)
- GHY 3310 ____ (3) Environmental Remote Sensing
- GHY 3800 ____ (3) Introduction to Quantitative Methods
- GHY 3812 ____ (3) Introduction to GIS (Pre: GHY 2310, 2812)
- GHY 4810 ____ (3) Digital Image Processing (Pre: GHY 2812, 3310)
- GHY 4812 ____ (3) Advanced GIS (Pre: GHY 3812)
- GHY 4814 ____ (3) Principles of GeoComputation (Pre: GHY 3812)
- GHY 4830 ____ (3) Senior Seminar [**CAP**]
- GHY 4900 ____ (6) Internship in Geography & Planning
- PLN 2410 ____ (3) Town, City, & Regional Planning

B. Elective Courses: (9 hours) Choose one from each area:

1. PHYSICAL GEOGRAPHY (3 hours)

- GHY 3100 ____ (3) Weather & Climate (Pre: GHY 1010)
- GHY 3110 ____ (3) Vegetation, Soils, & Landforms (Pre: GHY 1010)
- GHY 3130 ____ (3) Geography of Biodiversity
- GHY 3320 ____ (3) Environmental Issues in Appalachia
- GHY 4620 ____ (3) Synoptic & Regional Climatology (Pre: GHY 3100)
- GHY 4820 ____ (3) Geographical Hydrology (Pre: GHY 1010, 3100, 3110)

2. HUMAN GEOGRAPHY (3 hours)

- GHY 3200 ____ (3) Geographic Perspectives on Human Behavior
- GHY 3210 ____ (3) Economic Geography (Pre: 1 intro course GHY/ECO)
- GHY 4200 ____ (3) Urban Geography
- GHY 4230 ____ (3) Political Geography
- GHY 4240 ____ (3) Transportation Geography & Planning

3. REGIONAL GEOGRAPHY (3 hours)

- GHY 3011 ____ (3) Europe & the Russian Realm
- GHY 3012 ____ (3) US and Canada
- GHY 3013 ____ (3) North Carolina
- GHY 3014 ____ (3) Geography of Latin America
- GHY 3015 ____ (3) Geography of Asia

Authorized substitutions or waivers: _____ _____ _____
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C. Geography Electives (9 hours at 3000 or 4000 level; a maximum of 6 s.h. of 3000 or 4000 planning courses may be applied)

D. Approved Computer Programming & Application Courses (3 hours) _____

III. MINOR (optional)

IV. Departmental Graduation Check (Student should also have a senior check in the Dean's Office, 100 I. G. Greer)

Advisor: _____ Date: _____

Chair: _____ Date: _____ Sent to Dean's Office Date: _____

V. ELECTIVES (taken to total 122 hours for the degree).....12

2 semester hours of free electives must be outside the major discipline.

122

Total major requirements (including free electives) - 78; Gen Ed courses that may count in major (depends on choices) - 6; net major 72 hours;