

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

Program of Study for Geography Majors  
GEOGRAPHIC INFORMATION SYSTEMS

Student Name: \_\_\_\_\_

Date \_\_\_\_\_

**I. GENERAL EDUCATION CURRICULUM** .....44

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

**II. MAJOR REQUIREMENTS** .....66

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)

**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
- GHY 3016 \_\_\_\_ (3) Geography of the American South

**2. HUMAN GEOGRAPHY (3 hours)**

- 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

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)**

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**D. Approved Computer Programming & Application Courses (3 hours)** \_\_\_\_\_

**III. MINOR (optional)**

**IV. Departmental Graduation Check** (Student will receive a senior check from the Dean's Office via email)

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 - 66; Gen Ed courses that may count in major (depends on choices) - 6; net major 60 hours;