Bachelor of Science (BS)  
Degree Code 259*  
Concentration Code 259C  

ENVIRONMENTAL GEOLOGY CONCENTRATION

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

CHE 1101/1110 & CHE 1102/1120 fulfill Science Inquiry perspective and MAT 1110 fulfills Quantitative Literacy in general education.

II. MAJOR REQUIREMENTS  
(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. C below)  
Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian. Since many upper level Geology courses require GLY 1101 as a prerequisite, it is highly recommended that students complete this course during their freshman year.

A. Required Geology courses (33 semester hours)

- **GLY 1101** _____ (4) Intro to Physical Geology  
- **GLY 2250** _____ (4) Evolution of the Earth  
- **GLY 2745** _____ (4) Preparation of Geologic Reports  
- **GLY 3150** _____ (3) Principles of Structural Geology and Tectonics  
- **GLY 3220** _____ (3) Fundamentals of Mineralogy  
- **GLY 3703** _____ (3) Issues in Environmental Geology  
- **GLY 3715** _____ (3) Petrology and Petrography  
- **GLY 3800** _____ (3) Introduction to Stratigraphy & Sedimentology  
- **GLY 4630** _____ (3) Hydrogeology  
- **GLY 4705** _____ (3) Advanced Environmental & Engineering Gly [CAP]  

B. Geology electives--choose 6 semester hours at or above the 3000 level (excluding 3520):

C. Environmental Geology concentration (50 semester hours)  
(ECO 2030 can count in gen ed)

BIO 1801 _____ (4) Biological Concepts I  
CHE 1101 _____ (3) Introductory Chemistry I  
CHE 1110 _____ (1) Introductory Chemistry I Lab  
CHE 1102 _____ (3) Introductory Chemistry II  
CHE 1120 _____ (1) Introductory Chemistry II Lab  
C S 1425 _____ (3) Overview of Computer Science  
PHY 1103 _____ (4) General Physics I  
MAT 1110 _____ (4) Calculus with Analytic Geometry I  
STT 2810 _____ (3) Introduction to Statistics  
ECO 2030 _____ (3) Principles of Economics-Price Theory  
LAW 2150 _____ (3) Legal Environment of Business  
GHY 3100 _____ (3) Weather and Climate  
GHY 4820 _____ (3) Geographical Hydrology  
P S 2130 _____ (3) State and Local Government  
Elective _____ (3) Advisor approved, computer intensive course

Choose one series (of two courses):

- **FIN 3010** _____ (3) Survey of Finance and **MGT 3010** (3) Survey of Management  
- **GHY 2310** _____ (3) Cartographic Design & Analysis and **GHY 3812** (3) Intro to GIS (Pre: GHY 2310, 2812)  

During the senior year, the B.S. Geology with an Environmental Geology concentration student must take and achieve a satisfactory score on a comprehensive examination covering theoretical and practical aspects of areas of geology. Students who are unsuccessful on any portion or all of the examination may retake the appropriate portion(s) up to two additional times before graduation.

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree)........................................................................................................................................ 4

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

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