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

2011-2012  

Checksheet for Geology Majors  
ENVIRONMENTAL GEOLOGY CONCENTRATION  

I. GENERAL EDUCATION CURRICULUM  
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 (Pre: GLY 1101, 1102, 1103, 1104, or 1105)  
- GLY 3150 (3) Principles of Structural Geology and Tectonics (Pre: GLY 2250, 2745)  
- GLY 3220 (3) Fundamentals of Mineralogy (Pre: GLY 2250)  
- GLY 3703 (3) Issues in Environmental Geology (Pre: Science Inquiry met)  
- GLY 3715 (3) Petrology and Petrography (Pre: CHE 1101/1110; GLY 2250, 2745, 3220)  
- GLY 3800 (3) Introduction to Stratigraphy & Sedimentology (Pre: GLY 2250)  
- GLY 4630 (3) Hydrogeology (Pre: 6 s.h. GLY ≥ 2000; Jr. standing)  
- GLY 4705 (3) Advanced Environmental and Engineering Geology [CAP] (Pre: 6 s.h. GLY ≥ 2000; Jr. standing)

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 (Co: CHE 1101)  
- CHE 1110 (3) Introductory Chemistry I (Co: CHE 1110)  
- CHE 1120 (1) Introductory Chemistry I Lab (Co: CHE 1101)  
- CHE 1102 (3) Introductory Chemistry II (Pre: CHE 1101; Co: 1120)  
- CHE 1120 (1) Introductory Chemistry II Lab (Co: CHE 1102)  
- C S 1425 (3) Overview of Computer Science (Co: MAT 1020/1025)  
- PHY 1103 (4) General Physics I (Co: MAT 1020/1025)  
- MAT 1110 (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)  
- STT 2810 (3) Introduction to Statistics (Pre: MAT 1010)  
- ECO 2030 (3) Principles of Economics-Price Theory  
- LAW 2150 (3) Legal Environment of Business  
- GHY 3100 (3) Weather and Climate (Pre: GHY 1010)  
- GHY 4820 (3) Geographical Hydrology (Pre: GHY 1010, 3100, 3110)  
- 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  
- GHY 2310 (3) Cartographic Design & Analysis  
- MGT 3010 (3) Survey of Management  
- 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)  
2 semester hours of free electives must be outside the major discipline.

Major Requirements that count in Gen Education:
- Science Inquiry  
  CHE 1101/1110 4 s.h.  
  CHE 1102/1120 4 s.h.  
- Quantitative Literacy  
  MAT 1110 4 s.h.  
- Perspectives  
  ECO 2030 3 s.h.

Total Major hrs: 89  
Gen Ed hrs: -15  
Net Major hrs: 74

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