2005-2006
Bachelor of Science (BS)  Checksheets for Geology Majors
Degree Code 259*  ENVIRONMENTAL GEOLOGY CONCENTRATION
Concentration Code 259C

I. CORE CURRICULUM.................................................................44
CHE 1101-1102, 1110-1120 or GLY 1101-1102 (or 1510-1511) will count toward science requirement. MAT 1110 will count toward math requirement. PS 2130 and ECO 2030 will count toward the social science requirement.

II. MAJOR REQUIREMENTS..............................................................89
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. Since many upper level Geology courses require GLY 1101 and GLY 1102 as prerequisites, it is highly recommended that students complete these courses during their freshman year.

A. Required Geology courses (29 semester hours)
GLY 1101 _____ (4) Introduction to Physical Geology (ND) or GLY 1510 _____ (4) Geo. Sci. Honors-Physical (W, ND)
GLY 1102 _____ (4) Introduction to Hist. Geology (CD, ND) or GLY 1511 _____ (4) Geo. Sci. Honors-Historical (W, ND)
GLY 2215 _____ (4) Earth Materials
GLY 2735 _____ (3) Preparation of Geologic Reports (W, C, S)
GLY 3150 _____ (3) Principles of Structural Geology and Tectonics (ND, C)
GLY 3703 _____ (3) Issues in Environmental Geology
GLY 4620 _____ (4) Hydrogeology (ND)
GLY 4703 _____ (4) Advanced Environmental and Engineering Geology

B. Geology electives–choose 6 semester hours from the following:
GLY 3215 _____ (3) Introduction to Crystal Chemistry and Optical Mineralogy (ND)
GLY 3333 _____ (3) Geomorphology (W)
GLY 3480 _____ (3) Introduction to Oceanography (W, ND)
GLY 3715 _____ (3) Petrology and Petrography (W)
GLY 3800 _____ (3) Introduction to Strat. & Sedimentology

C. Environmental Geology concentration (54 semester hours)
BIO 1110 _____ (4) Concepts in Biology
CHE 1101 _____ (3) Introductory Chemistry I (ND)
CHE 1110 _____ (1) Introductory Chemistry I Lab
CHE 1102 _____ (3) Introductory Chemistry II (ND)
CHE 1120 _____ (1) Introductory Chemistry II Lab
C S 1440 _____ (4) Computer Science I (C)
Elective _____ (3) Advisor approved, computer intensive course
PHY 1103 _____ (4) General Physics (ND)
MAT 1110 _____ (4) Calculus with Analytic Geometry I (ND)
STT 2810 _____ (3) Introduction to Statistics (ND, C)
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

Three semester hours (3 semester hours) of non-Geology Environmental electives

Choose one series (of two courses):
FIN 3010 _____ (3) Survey of Finance and MGT 3010 (3) Survey of Management
OR GHY 2310 _____ (3) Map Interpret & Map Making (ND, C) and GHY 3812 (3) Intro to GIS (ND, C)

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).................................................................7
2 semester hours of free electives must be outside the major discipline.
Total 140
Minus hours double counted in core 18
Total hours must equal 122