2007-2008

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

Checksheet for Geology Majors
ENVIRONMENTAL GEOLOGY CONCENTRATION

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 <u>all</u> 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)	Intro to Physical Geology (ND) **<u>or</u>**	GLY 1510_____	(4)	Geo. Sci. Honors-Physical (W, ND)
GLY 1102	_____ (4)	Intro to Hist. Geology (CD, ND) **<u>or</u>**	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 (ND, W)
GLY 3480	_____ (3)	Introduction to Oceanography (W, ND)
GLY 3715	_____ (3)	Petrology and Petrography (W)
GLY 3800	_____ (3)	Introduction to Strat. & Sedimentology

<u>Major Designators</u>
2 Writing (W) ____ ____
1 Speaking (S) ____
Certified Proficiency in Communication (CPC) ___
Passing grade on 2nd speech in GLY 2735 & grade of D or better in GLY 2735
<u>Other Designators</u>
4 Writing (W) ____ ____ ____ ____
4 Multi Cultural (MC) ____ ____ ____ ____
2 Numerical Data (ND) ____ ____
2 Computer (C) ____ ____
1 Cross Disciplinary (CD)

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 I (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 **<u>and</u>** MGT 3010 (3) _____ Survey of Management
<u>OR</u> GHY 2310 _____ (3) Cartographic Design & Analysis (ND, C) **<u>and</u>** 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	**<u>-18</u>**
Total hours must equal	**122**