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

CHE 1101/1110 and 1102/1120 fulfills the Science Inquiry perspective.

II. MAJOR REQUIREMENTS (not including 8 hours counted in Area I, above) ............................................................69

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. Geology (37 semester hours):

Choose one introductory geology course:

GLY 1101 _____ (4) Introduction to Physical Geology
GLY 1102 _____ (4) Introduction to Historical Geology
GLY 1103 _____ (4) Introduction to Environmental & Applied Geology
GLY 1104 _____ (4) Water: Mountains to Sea
GLY 1105     _____ (4) Oceanography

GLY 2250 _____ (4) Evolution of the Earth (Pre: GLY 1101, 1102, 1103, 1104, or 1105)
GLY 2745     _____ (4) Preparation of Geologic Reports [WID] (Pre: ENG 2001, GLY 2250)
GLY 3150     _____ (3) Principles of Structural Geology and Tectonics (Pre: GLY 2250, 2745)
GLY 3220     _____ (3) Fundamentals of Mineralogy (Pre: GLY 2250)
GLY 3715     _____ (3) Petrology and Petrography (Pre: CHE 1101/1110; GLY 2250, 2745, 3220)
GLY 3800     _____ (3) Introduction to Stratigraphy and Sedimentology (Pre: GLY 2250)
GLY 4210     _____ (1) Geology Seminar [CAP] (Pre: Sr. standing)
GLY 4835     _____ (6) Summer Field Geology or other approved field course (Pre: GLY 3150, 3715, 3800)

6 s.h. GLY electives at or above 3000 level (excluding GLY 3520) ___________________________ ________________________

B. 8 semester hours Advisor Approved Non-Geology Courses ________________________________________________________

C. Mathematics/Chemistry/Physics (26 hours)

MAT 1110     _____ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)
MAT 1120     _____ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade C-)
CHE 1101     _____ (3) Introductory Chemistry I (Co: CHE 1110)
CHE 1110     _____ (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)
PHY 1150     _____ (5) Analytical Physics I (Co: MAT 1110)
PHY 1151     _____ (5) Analytical Physics II (Co: MAT 1120)

D. Six semester hours of statistics, such as

STT 2810     _____ (3) Introduction to Statistics (Pre: MAT 1010)
STT 3820     _____ (3) Statistical Methods I (Pre: STT 2810/2820)

OR 6 semester hours of geology advisor-approved computer science or computing courses

CS 1425     _____ (3) Overview of Computer Science (Co: MAT 1020 or 1025)
CS 1440     _____ (4) Computer Science I (Pre: MAT 1020/1025 w/minimum grade "C-")
GHY 2310     _____ (3) Cartographic Design & Analysis
GHY 3812     _____ (3) Introduction to GIS (Pre: GHY 2310, 2812)
GHY 4812     _____ (3) Advanced GIS (Pre: GHY 3812)

Other _____________________________________________

OR 6 semester hours of geology advisor-approved computer science or computing courses

During the senior year the B.S. (non-teaching) student must take and achieve a satisfactory score on a COMPREHENSIVE EXAMINATION covering theoretical and practical aspects in areas of geology. Students who are unsuccessful on portions or all of the examination may retake appropriate portions up to two additional times prior to graduation.

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree) .............................................................................................. 9

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