

**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 other Geology advisor approved courses based on statistical applications \_\_\_\_\_

**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 \_\_\_\_\_

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.

**122**