

**I. CORE CURRICULUM ..... 44**

Math 1110 will count toward math requirement. Either Chemistry 1101, 1110, 1102, 1120 or Physics 1150, 1151 will count toward science requirement.

**II. MAJOR REQUIREMENTS..... 74-76**

**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 (34 semester hours above the 1000 level):**

- GLY 2007 \_\_\_\_\_ (1) Mineral Identification
- GLY 2015 \_\_\_\_\_ (1) Rock Classification and Identification
- GLY 2024 \_\_\_\_\_ (1) Introduction to Fossils
- GLY 2077 \_\_\_\_\_ (2) Introduction to Crystal Chemistry (ND, C)
- GLY 2735 \_\_\_\_\_ (3) Preparation of Geologic Reports (W, C, S)
- GLY 3015 \_\_\_\_\_ (3) Petrology (W)
- GLY 3107 \_\_\_\_\_ (2) Optical Mineralogy (ND, C)
- GLY 3260 \_\_\_\_\_ (3) Principles of Structural Geology (ND, C)
- GLY 3800 \_\_\_\_\_ (3) Introduction to Stratigraphy and Sedimentology
- GLY 4024 \_\_\_\_\_ (4) Paleontology & Historical Geology (W, CD, ND)
- GLY 4210 \_\_\_\_\_ (1) Geology Seminar
- GLY 4835 \_\_\_\_\_ (6) Summer Field Geology

**And choose 4 semester hours from the following:**

- GLY 4620 \_\_\_\_\_ (4) Hydrogeology (ND)
- OR**
- GLY 4650 \_\_\_\_\_ (4) Economic Geology and Exploration Techniques (W, ND)

**OR BOTH**

- GLY 4501 \_\_\_\_\_ (1) Senior Research **AND** GLY 4510 (3) \_\_\_\_\_ Senior Honors Thesis (W)

**B. 8 semester hours Advisor Approved Non-Geology Courses \_\_\_\_\_**

**C. Mathematics/Chemistry/Physics**

- MAT 1110 \_\_\_\_\_ (4) Calculus with Analytic Geometry I (ND)
- MAT 1120 \_\_\_\_\_ (4) Calculus with Analytic Geometry II (ND)
- 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
- PHY 1150 \_\_\_\_\_ (5) Analytical Physics (W, ND)
- PHY 1151 \_\_\_\_\_ (5) Analytical Physics (W, ND)

<u>Major Designators</u>	
2 Writing (W)	_____
1 Speaking (S)	_____
Certified Proficiency in Communication (CPC)	_____
See Department Chair for CPC requirements.	
<u>Other Designators</u>	
4 Writing (W)	_____
(English 1000 and 1100 will count as 2 W)	
4 Multi Cultural (MC)	_____
(History 1101 and 1102 will count as 2 MC)	
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____

**D. Six semester hours of statistics OR**

**8 semester hours of geology advisor-approved computer science or**

- CS 1100 \_\_\_\_\_ (3) Discrete Mathematics
- CS 1400 \_\_\_\_\_ (3) FORTRAN Programming (C)
- CS 1410 \_\_\_\_\_ (2) Introduction to Computer Applications (C)
- CS 1440 \_\_\_\_\_ (3) Computer Science I (C)

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) ..... 14-16**

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

<b>Total</b>	<b>134</b>
<b>Minus hours double counted in core</b>	<b>-12</b>
<b>Total hours must equal</b>	<b>122</b>