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

II. MAJOR REQUIREMENTS
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. Geology (34 semester hours above the 1000 level):
- 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 3215 (3) Introduction to Crystal Chemistry and Optical Mineralogy (ND)
- GLY 3715 (3) Petrology and Petrography (W)
- 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 or other approved field course

And choose 4 semester hours from the following:
- GLY 4620 (4) Hydrogeology (ND)
OR
- GLY 4703 (4) Advanced Environmental and Engineering Geology
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 (ND)
- PHY 1151 (5) Analytical Physics (ND)

D. Six semester hours of statistics, such as
- STT 2810 (3) Intro to Data Analysis & Stat Infer (ND, C)
- STT 3820 (3) Statistical Methods I (ND, C)

OR 8 semester hours of geology advisor-approved computer science or computing courses
- CS 1400 (3) FORTRAN Programming (C)
- CS 1410 (2) Introduction to Computer Applications (C)
- CS 1440 (4) 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)
2 semester hours of free electives must be outside the major discipline.

Total 134
Minus hours double counted in core -12
Total hours must equal 122