I. GENERAL EDUCATION CURRICULUM ........................................................................................................................................ 44
Math 1110 will meet the Quantitative Literacy general education requirement.

II. MAJOR REQUIREMENTS (not including 4 s.h. counted in Area I, above) .................................................................................................................. 61
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. Mathematics Common Core (14-15 hours)
MAT 1110 _____ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 with grade of C- or better)
MAT 1120 _____ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 with grade of C- or better)
MAT 2240 _____ (3) Introduction to Linear Algebra (Pre: MAT 1120)

Choose one:
MAT 2110 _____ (3) Techniques of Proof (Pre: MAT 1120)
MAT 2510 _____ (4) Sophomore Honors Seminar (Pre: MAT 1120)

B. General Mathematics Concentration (28 hours)
MAT 2130 _____ (4) Calculus with Analytic Geometry III (Pre: MAT 1120 with grade of C- or better)
MAT 2310 _____ (3) Computational Mathematics (Pre: MAT 1120)
MAT 3130 _____ (3) Introduction to Differential Equations (Pre: MAT 1120)
MAT 4310 _____ (3) Numerical Methods (Pre: MAT 2310)
STT 3850 _____ (4) Statistical Data Analysis I (Pre: MAT 1110)

Choose one:
MAT 3110 _____ (3) Introduction to Modern Algebra [WID] (Pre: ENG 2001; MAT 2110, 2240)
MAT 3220 _____ (3) Introduction to Real Analysis [WID] (Pre: ENG 2001; MAT 2110)

Choose one Capstone:
MAT 4040 _____ (1) Senior Seminar [CAP] (Pre: Sr. standing)
MAT 4510 _____ (3) Senior Honors Thesis (Pre: MAT 3510; GPA=3.45+)

10-13 hours of approved electives** in mathematical sciences to bring total hrs in AREA II to 65 hrs (3 hours must be at 4000 level)

C. A Physical Sciences Concentration (17 hours)
PHY 2010 _____ (4) Intermediate Physics I (Pre: PHY 1104 or 1151; MAT 1120)
PHY 2020 _____ (4) Intermediate Physics II (Pre: PHY 2010; MAT 2130)
PHY 3210 _____ (3) Modern Physics I (Pre: PHY 1151 or Co: PHY 2010)

3 hours of approved electives** in physics at or above 2000 level

3 hours of approved electives** in physics or technology

**Must be approved by advisory committee.

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree) ........................................................................................................................................ 17
2 semester hours of free electives must be outside the major discipline.