Bachelor of Science (BS)  
Program of Study for Mathematics Majors
Degree Code 260* 
Concentration Code 260B

Student Name: ____________________________  Date ____________

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 w/min grade C-)
MAT 1120 ______ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade C-)
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. Mathematics Courses for the Concentration (29-30 hours)
MAT 2130 ______ (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade C-)
MAT 3110 ______ (3) Intro to Modern Algebra [WID] (Pre: RC 2001, MAT 2110 or 2510; Co: 2240)
MAT 3220 ______ (3) Intro to Real Analysis I [WID] (Pre: RC 2001, MAT 2110 or 2510)
Choose one:
MAT 3130 ______ (3) Intro to Differential Equations (Pre: MAT 1120)
MAT 3310 ______ (3) Discrete & Continuous Mathematical Models (Pre: MAT 1120; Co: 2240)
Choose one:
STT 3250 ______ (4) Fundamentals of Probability (Pre: MAT 2130)
STT 3850 ______ (4) Statistical Data Analysis (Pre: MAT 1110)
Choose one:
MAT 4040 ______ (1) Mathematics Capstone [CAP] (Pre: MAT 3110 or 3220; Sr. standing)
MAT 4510 ______ (3) Senior Honors Thesis [CAP] (Pre: MAT 3510; 3.45+ GPA in math)

9-13 hours of approved electives** in mathematical sciences to bring total hrs in AREA II to 65 hrs (at least 6 hours at the 4000 level, at least 3 hours in MAT)

C. A Career Support Concentration (at least 21 approved** hours)

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** Must be approved by mathematical sciences advisor.

III. MINOR (optional)

Student Signature: ____________________________  Advisor Signature: ____________________________
Chairperson Signature: ____________________________ Date: ____________ Date Sent to Dean's Office: ____________

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