

Bachelor of Science (BS)  
Degree Code 260\*  
Concentration Code 260D  
Student Name: \_\_\_\_\_

Program of Study for Mathematics Majors

BUSINESS

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 (28-30 hours)

- MAT 2130 \_\_\_\_\_ (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade C-)
- MAT 3220 \_\_\_\_\_ (3) Intro to Real Analysis I [WID] (Pre: ENG 2001, MAT 2110 or 2510)
- STT 3850 \_\_\_\_\_ (4) Statistical Data Analysis I (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)

Choose one:

- MAT 3130 \_\_\_\_\_ (3) Intro to Differential Equations (Pre: MAT 1120)
- MAT 3310 \_\_\_\_\_ (3) Discrete & Continuous Mathematical Models (Pre: MAT 1120; Co: 2240)

10-13 hours of approved electives\*\* in mathematical sciences to bring total hours in AREA II to 65 hours (at least 6 hours at the 4000 level, at least 3 hours in MAT)

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C. Business Concentration (at least 20 approved\*\* hours in business courses)

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_____	_____
_____	_____
_____	_____

D. Electives (3 hours) Approved elective in business or mathematical sciences

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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

Total major requirements – 65; Gen Ed courses that may count in major (depends on choices) – 4; net major 61 hours;