

I. CORE CURRICULUM 44
Math 1110 will meet the math requirement.

II. MAJOR REQUIREMENTS.....65-80
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.

Course requirements for the Bachelor of Science degrees in mathematical sciences (non-teaching) are as follows (with program subject to the approval of the advisory committee). An acceptable program of at least 65 semester hours but no more than 80, with a minimum of 34 hours in the Department of Mathematical Sciences (at least 5 semester hours from the 4000 level).

A. Mathematics

- MAT 1110 _____ (4) Calculus with Analytic Geometry I (ND)
- MAT 1120 _____ (4) Calculus with Analytic Geometry II (ND)
- MAT 2130 _____ (4) Calculus with Analytic Geometry III (ND)
- MAT 2240 _____ (3) Introduction to Linear Algebra (C)

B. Completion of one of the options:

1. General - 260*; 260B

- MAT 3110 _____ (3) Intro to Modern Algebra (W)
- MAT 3220 _____ (3) Intro to Real Analysis I (W)

Plus 13 hours of electives** in mathematical sciences (at least 5 hours at 4000 level); plus 10 semester hours of related* coursework.

OR

2. Applied - 260*; 260C

- MAT 3130 _____ (3) Intro to Differential Equations
- MAT 3310 _____ (3) Appl of Mathematics (W, S, ND, C)
- MAT 4310 _____ (3) Numerical Methods (ND, C)
- CS 1440 _____ (4) Computer Science I (C)
- CS 2440 _____ (4) Computer Science II (C)
- STT 4250 _____ (3) Probability Modeling w/Applications
- or STT 3850 _____ (4) Statistical Data Analysis (C, ND)
- or STT 4860 _____ (3) Probability Models & Statistical Inference I

Plus 6 hours of approved electives** in Mathematical Sciences (at least 5 hours at the 4000 level in math sciences) and 6 hours of related* coursework.

<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)	_____
4 Multi Cultural (MC)	_____
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____

C. A "concentration" of at least 18 semester hours from disciplines outside mathematical sciences.**

* Related coursework may be outside mathematical sciences and must be approved by advisory committee.
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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.