



Department of Mathematics and Statistics
College of Science, Technology, Engineering,
and Math (2025-26)

Suggested Curriculum Guide for BS Mathematics, General Mathematics Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations of Learning	3
CSC 174 - Introduction to Programming for Science & Engineering <u>or</u>	3
CSC 190- Object-Oriented Programming I	
MAT 234- Calculus I	4
⁶ STA 270 (<i>fulfills Gen. Ed. 2</i>)- Applied Statistics	4
Gen. Ed. 1A (<i>ENG 101</i>)	3

Sophomore (1st Semester) 16 hrs

MAT 254- Calculus III	4
MAT 307 - Number Theory <u>or</u> MAT 306 (spring only) - Discrete Mathematics	3
Gen. Ed. 1C (<i>Oral Comm</i>)	3
Gen. Ed. 4 (<i>Nat. Sci.</i>)	3
Gen. Ed. 3B Course 1	3

Junior (1st Semester) 15 hrs

MAT 308 (<i>fall only</i>)- Modern Algebra I	3
Concentration Elective	3
Gen Ed. 5A (<i>History</i>)	
Free Elective (<i>upper division</i>)	3
Free Elective	3

Senior (1st Semester) 15 hrs

Concentration Elective	3
Free Elective (<i>upper division</i>)	3
Free Elective	3
Free Elective	3
Free Elective	3

Freshman (2nd Semester) 16 hrs

MAT 239- Linear Algebra and Matrices	3
MAT 244- Calculus II	4
Gen. Ed. 1B (<i>ENG 102</i>)	3
Gen Ed. 3A (<i>Arts</i>)	3
Gen Ed. 4 (<i>Nat. Sci.</i>)	3

Sophomore (2nd Semester) 15 hrs

MAT 315 (<i>spring only</i>)- Introduction to Analysis	3
Gen. Ed. 3B (<i>Humanities</i>) Course 2	3
Gen. Ed. 5B (<i>Soc. & Behav. Sci.</i>) Course 1	3
Gen. Ed. 5B Course 2	3
Free Elective	3

Junior (2nd Semester) 15 hrs

Concentration Elective	3
Concentration Elective	3
Free Elective (<i>upper division</i>)	3
Free Elective (<i>upper division</i>)	3
Free Elective	3

Senior (2nd Semester) 13 hrs

Concentration Elective	1-3
Concentration Elective	3
Free Elective (<i>upper division</i>)	3
Free Elective	3
Free Elective	1-3

Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS.

General Education
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs).

39 hours
36 hours
3 hours

MAJOR REQUIREMENTS

Core Courses

MAT 234, MAT 239, MAT 244, MAT 254, MAT 306 or 307, MAT 308, MAT 315, CSC 174 or 190

24 hours

Concentration Requirements

16-18 hours

Eighteen (18) hours selected from (Concentration Elective):

Any MAT course numbered 300 or above or any STA course numbered 300 or above (*except for 349*).

- No more than SIX (6) HOURS of STA courses may be used to fulfill this requirement.
- Courses cannot count in multiple categories.

Supporting Course Requirements

⁶ STA 270

1 hour

Free Electives

35-37 hours

Total Curriculum Requirements

120 hours