



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

Suggested Curriculum Guide for BS Mathematics, Mathematics Teaching Concentration

Freshman (1st Semester) 17 hrs

GSD 101- Foundations of Learning
MAT 234- Calculus I
⁶STA 270 (*fulfills Gen. Ed. 2*)- Applied Statistics
Gen. Ed. 1A (*ENG 101*)
Gen. Ed. 5B (*Soc. & Behav. Sci.*) Course 1

Sophomore (1st Semester) 16 hrs

MAT 254- Calculus III
MAT 307 - Number Theory or MAT 306 (spring only) - Discrete Mathematics
Gen. Ed. 1C (Oral Comm.)
Gen. Ed. 4 (*Nat. Sci.*)
Gen. Ed. 5B Course 2

30 hrs complete + apply to professional education program

Junior (1st Semester) 15.5 hrs

CED 300- Clinical III: Curriculum and Instructional Design
EDC 300: Differentiation in Inclusive Classrooms
EMS 300- Curriculum & Instructional Design
MAT 308 (*fall only*)- Modern Algebra I
Gen Ed. 5A (*History*)
‡ Concentration Elective

Senior (1st Semester) 11 hrs

ESE/MAT 550 (*fall only*)- Teaching Math. In the Secondary Schools
CED 450 (*fall only*)- Clinical V: Practicing Teaching
Gen Ed. 3A (*Arts*)
Gen. Ed. 3B (*Humanities*)
Free Elective

APPLY FOR STUDENT TEACHING

⁶ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

Freshman (2nd Semester) 16.5 hrs

CED 100- Clinical I: Intro to the Education Prof.
EDF 203- Philosophical & Historical Found. of Ed.
SED 104 Intro. to Special Education
MAT 239- Linear Algebra and Matrices
MAT 244- Calculus II
Gen. Ed. 1B (*ENG 102*)

Sophomore (2nd Semester) 17.5 hrs

CED 200- Clinical II: Understanding the Learner
EDF 204- Emerging Instructional Technologies
EDF 219- Human Development and Learning
MAE 303 (*spring only*)- Mathematical Models and Applications
CSC 174 - Introduction to Programming for Science & Engineering or
CSC 190- Object-Oriented Programming I
MAT 203 (*spring only*)- Geometry for Middle and Elementary School Teachers
Gen Ed. 4 (*Nat. Sci.*)

Junior (2nd Semester) 15.5 hrs

EDF 413- Assessment in Education
EMS 490- Classroom & Behavior Management in P-12
CED 400- Clinical IV: Diagnosis & Perception
MAT 315 (*spring only*)- Introduction to Analysis
MAE 305 (*spring only*)- Problem Solving and Technology
‡ Concentration Elective

Senior (2nd Semester) 12 hrs

CED 499- Supervised Student Teaching
EMS 474- Teaching Content Reading

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 CSC 190

27 hours

Concentration Requirements

MAE 303, MAE 305, MAT 203

12 hours

‡ PLUS THREE (3) HOURS selected from CSC 320; any MAT course numbered 300 or above (except for 301, 308, 315, and 349), or any STA course numbered 300 or above (except for STA 349). (Concentration Elective)

Supporting Course Requirements

⁶ STA 270

1 hour

Professional Education Requirements

EDC 300, EDF 203, EDF 204, EDF 219, EDF 413, EMS 300, EMS 474, EMS 490, ESE 550/MAT 550, SED 104

37 hours

PLUS ELEVEN (11) HOURS of Clinical Experiences to include:

CED 100, CED 200, CED 300, CED 400, CED 450, CED 499

Free Electives

1 hour

Total Curriculum Requirements

120 hours

