Bachelor of Science in Mathematics
Catalog Year 2024-2025

For more information regarding the Mathematics B.S., scan the QR code.

Prerequisite / Lower Division Flow

MATH 115E — COLLEGE ALGEBRA WITH EXTRA SUPPORT (F/SP)

MATH 120 — PRECALCULUS (F/SP)

MATH 125 — PRECALCULUS W/ ALGEBRA (F/SP)

MATH 130 — CALCULUS I (F/SP)

OR

MATH 131 — CALCULUS II (F/SP)

MATH 230 — CALCULUS III (F/SP)

MATH 285 — INTRO TO DIFFERENTIAL EQUATIONS (F/SP)

MATH 385 — SYSTEMS OF DIFFERENTIAL EQUATIONS (F)

STAT 316 — STAT & PROB FOR SCI & ENGR

MATH 340 — MODERN GEOMETRY (SP)

MATH 450 — COMBINATORICS

MATH 300 — INTRO TO MATH PROOF (F/SP)

MATH 330 — ANALYSIS I (SP)

MATH 331 — ANALYSIS II (F)

MATH 360 — NUMBER THEORY (F)

MATH 215 — INTRO TO LINEAR ALGEBRA (F/SP)

MATH 310 — LINEAR ALGEBRA THEORY (F)

MATH 320 — ABSTRACT ALGEBRA I (F)

MATH 321 — ABSTRACT ALGEBRA II (SP)

MATH 380 — LINEAR PROGRAMMING (F)

MATH 305 — MATHEMATICAL SOFTWARE (F/SP)

MATH 370 — NUMERICAL ANALYSIS I (SP)

MATH 470 — NUMERICAL ANALYSIS II

MATH 493* — SENIOR SEMINAR (SP)

MATH 497* — TOPICS IN ADVANCED MATH

ANY UPPER DIVISION MATH COURSE, NOT USED TO FULFILL OTHER MAJOR REQS, *EXCEPT FOR* MATH 318

MATH 480 OR 490 — ONLY 3 UNITS OF MATH RESEARCH (480) OR INDEPENDENT STUDY (490) CAN BE USED TOWARDS YOUR DEGREE

Legend / Notes

- - - - → Indicates co-requisite course.

*Requires department consent.

**Any 300 level or higher course, not used to fulfill another requirement, can be used as an elective

The purpose of this flowchart is to help students determine the pre-requisite classes they need for their major. This tool is NOT a substitute for attending orientation or booking an appointment with an advisor. However, this tool can be a helpful starting point, and we recommend using the tool prior to advising appointments.

- Must take ALL **LOWER DIVISION CORE** courses
- Must take ALL **UPPER DIVISION CORE** courses
- Must take TWO **APPLIED MATH** courses
- Must take TWO **THEORETICAL MATH** courses
- Must take TWO** **ELECTIVE** courses
- **PRE-REQUISITE** courses