

ACADEMIC ROADMAP
 Mathematics Major
 2026

Freshman Year (32 credits)

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing I	CWP 101	
Calculus I	MAT 161	MAT124 with a C or better or HS equivalent
GE 23 Diversity: Equity, Inclusion and Social Justice	EXE 100	
GE 23 courses (6 credits)	PHI 101, PSY 101	

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Argumentation and Research	CWP 102	CWP 101
Calculus II	MAT 162	MAT 161 with a C or better
Introduction to Linear Algebra	MAT 202	
GE 23 Course	HIS 106	
GE 23 Natural Sciences & Scientific Reasoning	CHE 111	

Notes and recommendations:

You should attend at least one faculty office hour and view your degree audit sheet in Degree Works this year. Visit the [Academic Center for Excellence](#) for tutoring (math, writing, and general tutoring) and to the [Career and Professional Education Center](#) for tips and tools about majors and career paths.

Sophomore Year (63 credits)

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Calculus III	MAT 263 ¹	MAT 162 with a C or better
Computation Tools for Applied Mathematics or Computer-based Information Processing	MAT 241 or CIS 151	
GE 23 courses (9 credits)	HIS 115, MUS 201, COM 100	

FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Linear Algebra	MAT 202	MAT 161 with a C or better
Techniques of Proof	MAT 300 ²	MAT 162 with a C or better
GE 23 courses (6 credits)	PHY 107, ECO 101	
Open Elective (3 credits towards minor)		Discuss options with your Mathematics Advisor

Notes and recommendations:

¹MAT263 offered fall only. ²MAT300 offered spring only. Consider enrolling in a second major, minor, or certificate program.

Junior Year (93 credits)

FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Probability and Statistics	MAT 325 ³	MAT 162
Upper Division Math Elective		Check prerequisites and consult your Mathematics advisor
Open Electives (9 credits towards minor)		

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra	MAT 301 ⁴	MAT 300
Upper Division Math Elective		Check prerequisites and consult your Mathematics advisor
Open Electives (9 credits toward minor)		

Notes and recommendations:

³MAT325 offered fall only. ⁴MAT301 offered spring only. Visit the Career & Professional Education Center to discuss appropriate career options.

Senior Year (120 credits)

SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Intro to Real Analysis	MAT 417 ⁵	MAT 263 and MAT 300
Upper Division Math Elective		Check prerequisites and consult your Mathematics advisor
Open Electives (9 credits toward minor)		

EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Capstone Research in Math	MAT 491 ⁶	MAT 301 or MAT 417
Upper Division Math Elective		Check prerequisites and consult your Mathematics advisor
Open Elective (6 credits towards minor)		

Notes and recommendations:

⁵ MAT417 fall only. ⁶ MAT491 spring only. Apply for graduation; apply to graduate school, if applicable; visit the Career & Professional Education Center to have your resume reviewed.