

ACADEMIC ROADMAP

Mathematics B.A.

Fall 2024

Freshman Year (29 credits)

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing I (3)	CWP 101	
Calculus 1 (4)	MAT 161	MAT 124 or HS equivalent
GE 23 Diversity: Equity, Inclusion and Social Justice (3)	EXE 100	
GE 23 Natural Sciences and Scientific Reasoning (3)		

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing II (3)	CWP 102	CWP 101
Calculus II (4)	MAT 162	MAT 161
GE 23 courses (9 credits)		

Notes and recommendations:

Both semesters need to total at least 14 credit hours each.

Attend at least one faculty office hour; visit Academic Commons (Math & Writing Centers, tutoring); view your degree audit sheet in Degree Works

Sophomore Year (60 credits)

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Calculus III (4)	MAT 263	MAT 162
Computational Tools for Applied Mathematics (3) or Computer-based Information Processing I (3)	MAT 241 or CIS 151	MAT 161
GE 23 courses (9 credits)		

FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Linear Algebra (3)	MAT 202	MAT 161
Techniques of Proof (3)	MAT 300	MAT 270
GE 23 courses (6 credits)		
Open Elective (towards Minor) (3)		

Notes and recommendations:

One semester should total 16 credits, the other 15 credits.

Form a study group; consider enrolling in a minor or certificate program.

Junior Year (90 credits)

FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Probability and Statistics (3)	MAT 325	MAT 162 and MAT 270
Upper Division Math Elective (3)		Check prerequisites
Open Elective (towards Minor) (9 credits)		

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra (3)	MAT 301	MAT 300
Upper Division Math Elective (3)		Check prerequisites
Open Elective (towards Minor) (9 credits)		

Notes and recommendations:

MAT 325 is Fall only. MAT 301 is offered Spring only. Both semesters should total 15 credit hours. Visit the Career and Professional Education Center; talk to your faculty advisor about graduate school options.

Senior Year (120 credits)

SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Intro to Real Analysis (3)	MAT 417	MAT 263 & MAT 300
Upper Division Math Elective (3)		Check prerequisites
Open Elective (towards Minor) (9 credits)		

EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Complex Variables (3)	MAT 411	MAT 263
Capstone Research in Math (3)	MAT 491	MAT 301 or MAT 417
Upper Division Math Elective (3)		Check prerequisites
Open Elective (towards Minor) (6)		

Notes and recommendations:

MAT 417 offered Fall only. MAT 411 offered Spring only. MAT 491 offered Spring only. Both semesters should total 15 credits.

Apply for graduation; apply to graduate school, if applicable; visit the Career and Professional Education Center to have your resume reviewed