

Mathematics

MAJOR MINOR

Professors: Hegde, Hughes, Lemmert, Michael, Revennaugh

Associate Professors: Barnet, Dunmyre (Chair), Wojnar

Assistant Professors: Forsythe, Horacek, N. Tootoonchi

Lecturer: Devlin

- You may major or minor in Mathematics
- Elementary Education students may elect a specialization in Mathematics.
- You may elect to focus in Mathematical Sciences (see next section). The Mathematical Sciences Focus is designed for mathematics, chemistry, and physics majors.
- The department offers an honors program.

Program Requirements

	MAJOR	MINOR
Hours Required in Mathematics:	42	21
Hours Required in Other Departments:	0	0
Total Hours Required:	42	21

Requirements for Major in Mathematics

1. Basic Courses (39 hours)

MATH 236	Calculus I (<i>Core Skill 3</i>)
MATH 237	Calculus II
MATH 238	Calculus III
MATH 280	Introductory Applied Statistics and Data Analysis
MATH 315	Foundations of Mathematics
MATH 350	Linear Algebra I
MATH 380	Introduction to Probability and Statistics
MATH 432	Differential Equations
MATH 440	Modern College Geometry
MATH 451	Modern College Algebra
MATH 470	Mathematical Models and Applications
MATH 491	Seminar in Mathematics (<i>Capstone</i>)

2. Electives (6 hours)

Select from courses at the 400 level, except MATH 495 Internship in Mathematics.

Most students will fulfill the elective requirements with the following courses

MATH 425	Introduction to Real Analysis
MATH 452	Linear Algebra II
MATH 461	History of Mathematics
MATH 465	Theory of Numbers

Requirements for Minor in Mathematics

1. Basic Courses (11-12 hours)

MATH 236	Calculus I (<i>Core Skill 3</i>)
MATH 237	Calculus II
AND ONE of the following:	
a) MATH 238	Calculus III OR
b) MATH 280	Introductory Applied Statistics and Data Analysis

2. Electives (9 hours)

Select from courses at the 300 or 400 level, except MATH 340 Fundamental Concepts of Geometry or MATH 495 Internship in Mathematics

If you wish to complete a Maryland State-approved program in teaching secondary Mathematics, you must:

- Complete the BA/BS in Mathematics.
- See the Secondary Teacher Education Program Coordinator for details.
- Within the electives portion of the Mathematics major, you must select certain courses in order to qualify for Maryland State certification and to meet NCATE accreditation standards. These courses are listed below.

1. Basic Core Curriculum (39 hours)

MATH 236	Calculus I (<i>Core Skill 3</i>)
MATH 237	Calculus II
MATH 238	Calculus III
MATH 280	Introductory Applied Statistics and Data Analysis
MATH 315	Foundations of Mathematics
MATH 350	Linear Algebra I
MATH 380	Introduction to Probability and Statistics
MATH 432	Differential Equations
MATH 440	Modern College Geometry
MATH 451	Modern College Algebra
MATH 470	Mathematical Models and Applications
MATH 491	Seminar in Mathematics (<i>Capstone</i>)

2. Mathematics Teaching Certification Option Requirements

(6 hours)

MATH 461	History of Mathematics
MATH 465	Theory of Numbers