

# MATHEMATICS MINOR

**Banner Code:** MATH

## Academic Advising

Website: [science.gmu.edu/academics/departments-units/mathematical-sciences/advising-and-student-support](http://science.gmu.edu/academics/departments-units/mathematical-sciences/advising-and-student-support)

This minor allows academically strong students to supplement their major degree program with advanced knowledge of mathematics.

## Admissions & Policies

### Policies

Eight credits of coursework must be unique to the minor. For policies governing all minors, see AP.5.3.4 Minors (<http://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-3-4>).

Students must earn a minimum 2.00 GPA in courses applied to the minor.

## Requirements

### Minor Requirements

Total credits: 21

Students should refer to the Admissions & Policies tab for specific policies related to this program.

### Required Courses

| Code          | Title   | Credits |
|---------------|---|---------|
| MATH 125      | Discrete Mathematics I (Mason Core)<br>( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> )                            | 3       |
| MATH 203      | Linear Algebra  | 3       |
| MATH 213      | Analytic Geometry and Calculus III  | 3       |
| or MATH 215   | Analytic Geometry and Calculus III (Honors)   |         |
| MATH 214      | Elementary Differential Equations   | 3       |
| or MATH 216   | Theory of Differential Equations  |         |
| MATH 300      | Introduction to Advanced Mathematics<br>(Mason Core) ( <a href="http://catalog.gmu.edu/mason-core/">http://catalog.gmu.edu/mason-core/</a> ) <sup>1</sup> | 3       |
| Total Credits |   | 15      |

<sup>1</sup>

Students must earn a 2.00 or higher in MATH 300.

### Mathematics Elective

| Code  | Title                   | Credits |
|---|-------------------------|---------|
| Select 3 credits from the following: <sup>1</sup> |                         | 3       |
| MATH 315  | Advanced Calculus I     |         |
| MATH 321  | Abstract Algebra        |         |
| MATH 322  | Advanced Linear Algebra |         |
| Total Credits                                     |                         | 3       |

<sup>1</sup>

Students must earn a 2.00 or higher.

### General Elective

| Code  | Title   | Credits |
|---|---|---------|
| Select 3 credits from the following:                          |   | 3       |
| One 3-credit math course at the 300 or 400 level <sup>1</sup> |   |         |
| STAT 344  | Probability and Statistics for Engineers and Scientists I |         |
| Total Credits   |   | 3       |

<sup>1</sup>

Excluding MATH 400