# Mathematics Minor

1117 Mathematics Building  
301-405-5053  
www-math.umd.edu

The Department of Mathematics offers a minor in Mathematics for students majoring in other disciplines. The goal of the minor in Mathematics is to provide the student with significant mathematical skills and a perspective on the discipline.

The departmental advisor for this program is Ida Chan, Undergraduate Mathematics Advisor (ichan@math.umd.edu).

## Requirements

The requirements for the minor include at least 22 credits (19 credits if exempted from MATH310) beyond first-year calculus and are outlined below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH241</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>or MATH340</td>
<td>Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)</td>
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Select one of the following: 3-4 credits

- MATH240 Introduction to Linear Algebra
- MATH461 Linear Algebra for Scientists and Engineers
- MATH341 Multivariable Calculus, Linear Algebra, Differential Equations II (Honors)
- MATH310 Introduction to Mathematical Proof (unless exempted)

Select one theoretical course from the following: 3 credits

- MATH403 Introduction to Abstract Algebra
- MATH405 Linear Algebra
- MATH410 Advanced Calculus I

Select one algebra course from the following: 3 credits

- MATH401 Applications of Linear Algebra
- MATH402 Algebraic Structures
- MATH403 Introduction to Abstract Algebra
- MATH405 Linear Algebra
- MATH406 Introduction to Number Theory

Select one analysis course from the following: 3 credits

- MATH410 Advanced Calculus I
- MATH416 Applied Harmonic Analysis: An Introduction to Signal Processing
- MATH462 Partial Differential Equations
- MATH463 Complex Variables
- MATH464 Transform Methods for Scientists and Engineers

Select one probability course from the following: 3 credits

- STAT400 Applied Probability and Statistics I
- STAT410 Introduction to Probability Theory
- Others as approved by UGO

Total Credits 22-23

**Note:** If additional credits are needed in order to fulfill the 22-credit (19 credits if exempted from MATH310) minimum, any 400-level MATH-STAT-AMSC courses except MATH400, MATH477-MATH478, MATH480-MATH484, MATH489, MATH498, and STAT464 are acceptable.

Other issues related to the minor in Mathematics:

- The minor in Mathematics is NOT open to Mathematics majors.
- The student will need to achieve at least a "C-" (1.7) in each minor course and an overall minor GPA of 2.0.
- No more than one of the 400-level courses for the minor in Mathematics may be taken at an institution other than the University of Maryland, College Park.