

MATHEMATICS MINOR

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Program Advisor: Ida Chan

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.

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:

Course	Title	Credits
MATH241	Calculus III	4
or MATH340	Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)	
Select one of the following:		3-4
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)	3
Select one theoretical course from the following:		3
MATH403	Introduction to Abstract Algebra	
MATH405	Linear Algebra	
MATH410	Advanced Calculus I	
Select one algebra course from the following:		3
MATH401	Applications of Linear Algebra	
MATH402	Algebraic Structures	
MATH403	Introduction to Abstract Algebra	
MATH405	Linear Algebra	
MATH406	Introduction to Number Theory	
MATH423	Linear Optimization	
Select one analysis course from the following:		3
MATH410	Advanced Calculus I	
MATH416	Applied Harmonic Analysis: An Introduction to Signal Processing	
MATH462	Partial Differential Equations	
MATH463	Complex Variables	
MATH464	Transform Methods	
Select one probability course from the following:		3
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 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.