

Mathematics Minor

For information, contact the Department of Mathematics, 123 Bachelor Hall, 513-529-5818.

This minor provides students with an increased understanding of, and competence in, mathematics. Building on a base of calculus and linear algebra, already required for many majors, the program leads students through an introductory proof course, a theoretical course, and an applications course.

A minimum 2.00 GPA is required for all courses in the minor. All courses must be taken for a grade, not credit/no-credit. This minor is not available to majors in mathematics, mathematics and statistics, or mathematics education.

Program Requirements

(20-22 semester hours)

Code	Title	Credit Hours
Select one of the following:		4-5
MTH 249 or MTH 249H	Calculus II	
MTH 251	Calculus II	
Select one of the following:		
MTH 252 or MTH 252H	Calculus III	4
Select one of the following:		5-6
MTH 222 & MTH 331	Introduction to Linear Algebra and Proof: Introduction to Higher Mathematics	
MTH 222T & MTH 331T	Introduction to Linear Algebra (Honors) and Proof: Introduction to Higher Mathematics (H)	
Select at least 7 additional semester hours in mathematics courses at the 300 level or above, including:		7
At least one of the following:		
MTH 411	Foundations of Geometry	
MTH 421	Introduction to Abstract Algebra	
MTH 441	Real Analysis	
MTH 451	Introduction to Complex Variables	
At least one of the following:		
MTH 347	Differential Equations	
MTH 432	Optimization	
MTH 435	Mathematical Modeling Seminar	
MTH 436	Combinatorial Designs and Coding Theory	
MTH 437	Game Theory and Related Topics	
MTH 438	Theory and Applications of Graphs	
MTH 439	Combinatorics	
MTH 447	Topics in Mathematical Finance	
MTH 453	Numerical Analysis	
MTH 495	Introduction to Applied Nonlinear Dynamics	

or MME 495 Introduction to Applied Nonlinear Dynamics

At least six semester hours at 400 level.
Total Credit Hours

20-22

Note: You may count at most one semester hour from MTH 430 or MTH 477 and three semester hours of PHY 483. MTH 330 does not count toward the minor. Students who have taken MTH 245 as a requirement for a major may count one hour of MTH 245 to the 10 hours at the 300 level, and for them, MTH 245 substitutes for MTH 347 in the list of "applications" courses.