

Mathematics- Master of Arts in Teaching, Master of Science

For information, contact:
 Director of Graduate Studies
 Department of Mathematics
 123 Bachelor Hall, 513-529-5818
<http://www.cas.MiamiOH.edu/math/>

Admission Requirements

A Bachelor's degree with an undergraduate major in mathematics or permission of the director of graduate studies is required and a GPA of 2.75 or higher.

Mathematics- Master of Science Program Requirements

(32 semester hours)

Code	Title	Credit Hours
Required courses		
MTH 541	Real Analysis	3
MTH 591	Introduction to Topology	3
MTH 621	Abstract Algebra I	4
MTH 641	Functions of a Real Variable	4
Select three of the following:		9-10
MTH 632	Advanced Optimization	
MTH 638	Advanced Graph Theory	
MTH 655	Advanced Differential Equations	
MTH 691	Introduction to Algebraic Topology	
In consultation with Graduate advisor, select additional hours to total 32		9
Total Credit Hours		32-33

Up to 6 of the 32 hours may come from outside mathematics, with the approval of the graduate committee.

15 of the 32 semester hours must be 600-level MTH courses. No thesis required.

Mathematics- Master of Arts in Teaching Program Requirements

This is primarily a summer program for certified/licensed teachers. Courses are offered on a three-year revolving basis in the summer terms, except for one online course in the Fall of even-numbered years. Required are 30 semester hours of graduate mathematics and education content including:

Code	Title	Credit Hours
Required courses:		
MTH 508	Mathematical Problem Solving with Technology	3
MTH 604	Discrete Mathematics for Secondary School Teachers	3
MTH 605	Calculus for Secondary School Teachers	3
MTH 606	Geometry for Secondary School Teachers	3
MTH 607	Algebra for Secondary School Teachers	3
MTH 609	Data Analysis and Inference for Secondary School Teachers	3
MTH 689	Research in Math Education	3
Three elective courses (9 hours) selected to improve the candidate's ability to teach mathematics.		9
Candidates must conduct an independent reflective self-study as a final project.		
Total Credit Hours		30