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 cour	ses	
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 hours to total 3	with Graduate advisor, select additional 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.

 $15\ \mbox{of the}\ 32\ \mbox{semester}$ 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 cou	rses:	
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 mu study as a fina	ust conduct an independent reflective self- l project.	
Total Credit H	30	