M.S. IN MATHEMATICS

Overview

The primary objective of the Master of Science degree in mathematics is to prepare students for careers in teaching. This program also provides the necessary foundation for entry into careers in science, business, government, or other fields which make use of mathematics.

https://www.math.miami.edu/graduate/program-requirements/#MS

Curriculum Requirements

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Code	Title	Credit Hours
A minimum of 24 credit hours must be ear	rned in Mathematcis Courses	
Choose two of the following:		12
MTH 631	Topology I	
& MTH 632	and Topology II	
MTH 633	Introduction to Real Analysis I	
& MTH 634	and Introduction to Real Analysis II	
MTH 661	Abstract Algebra I	
& MTH 662	and Abstract Algebra II	
MTH Courses 700 level and higher ¹		9-15
Additional Courses ¹		9
Three written exams, at least two of which	n are on the basic sequences of the above list, must be passed.	
Total Credit Hours		30-36

- If a student takes 15 credits in MTH at the 700 level or higher 30 credits are required for the Masters.
- If a student takes 12-14 credits in MTH at the 700 level or higher 33 credits are required for the Masters.
- If a student takes 9-11 credits in MTH at the 700 level or higher 36 credits are required for the Masters.

Sample Plan of Study

Year One		
Fall		Credit Hours
MTH 631	Topology I	3
MTH 633	Introduction to Real Analysis I	3
MTH 661	Abstract Algebra I	3
700 Level Topics Course		3
	Credit Hours	12
Spring		
MTH 632	Topology II	3
MTH 634	Introduction to Real Analysis II	3
MTH 662	Abstract Algebra II	3
700 Level Topics Course		3
Topic Sequence MS Exams		
	Credit Hours	12
Year Two		
Fall		
700 Level Topics Courses		9-12
	Credit Hours	9-12
	Total Credit Hours	33-36

Admission Requirement

A minimum of 15 credit hours in mathematics courses numbered 200 and above is required. For more information about admission, please visit our website (http://www.math.miami.edu/graduate/application-procedure/).

Mission

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Student Learning Outcomes

- Students will achieve a solid understanding of the material in at least one of the following six advanced mathematics content areas: partial differential equations, ordinary differential equations, probability and statistics, topology, real analysis, and abstract algebra.
- Students will exhibit a broad synthesis of the theory and application of one of the subjects listed in outcome above.
- Upon completion of the degree, students will be interviewed and asked to rate how successful the program was in enabling them to pursue their career goals. The department will document the students' initial employment.