

MATHEMATICS, MS

This program is designed to provide students with the opportunity to broaden and deepen their knowledge of core areas of mathematics. The course work is designed to provide both breadth of knowledge and depth in an area of interest to the student. This experience will prepare the student for further studies leading to a Ph.D. degree in mathematics. Partial tuition waivers may be available to qualified students.

Requirements Non-Thesis Option

Course ID	Title	Credits
Required Courses		
MATH 7210 & MATH 7220	Analysis I and Analysis II	6
Select one of the following:	·	6
MATH 7010 & MATH 7020	Topology I and Topology II	
MATH 7110 & MATH 7120	Algebra I and Algebra II	
MATH 7980	Reading and Research ¹	3
Optional Courses		
Select five additional courses from the optional list ²		15
Total Credit Hours		30

Consists of a semester-long project under the supervision of a faculty member from the Department

Additional Requirements

A four-hour written examination to be taken upon completion of the course work, with topics drawn from basic material in algebra, topology and analysis taught in the first-year graduate courses. The student is given two chances to pass this exam. One of the Ph.D. Qualifying examinations may be substituted for the Masters exam.

Thesis Option

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Course ID	Title	Credits
Required Courses		
MATH 7210 & MATH 7220	Analysis I and Analysis II	6
Select 1 of the following:		6
MATH 7010 & MATH 7020	Topology I and Topology II	
MATH 7110 & MATH 7120	Algebra I and Algebra II	
Optional Courses		
Select four additional courses from the optional list ¹		12
Total Credit Hours		24

Other courses not listed may be substituted with the approval of the Graduate Studies Committee. Up to six credits may be transferred from other departments or institutions with the approval of the Graduate Studies Committee.

Additional Requirements

A thesis approved by the thesis committee consisting of a faculty member acting as advisor and two additional faculty. The thesis is typically much more substantial than the MATH 7980 Reading and Research (1-9 c.h.) project.

Other courses not listed may be substituted with the approval of the Graduate Studies Committee. Up to six credits may be transferred from other departments or institutions with the approval of the Graduate Studies Committee.



List of Optional Courses

Course ID	Title	Credits
MATH 6030	Stochastic Processes	3
MATH 6210	Differential Geometry	3
MATH 6300	Complex Analysis I	3
MATH 7240	Mathematical Statistics	3
MATH 7510	Differential Geometry I	6
& MATH 7520	and Differential Geometry II	
MATH 7530	Partial Diff Equations I	6
& MATH 7540	and Partial Diff Equitns II	
MATH 7550	Probability Theory II	3
Special Topics Courses ¹		3

MATH 7710 Topics In Algebra (3 c.h.) - MATH 7790 Topics In Topology (3 c.h.)