

# MASTER OF SCIENCE IN MATHEMATICS (MS)

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CIP:27.0101.00

## Major Curriculum - Mathematics

Code	Title	Semester Credit Hours
<b>Required Courses</b>		
MATH 5305	Real Analysis I	3
MATH 5320	Complex Variables I	3
MATH 5330	Abstract Algebra I	3
MATH 5365	Topology	3
MATH 5370	Mathematical Modeling	3
Select four courses from the following:		12
MATH 5303	Number Theory I	
MATH 5304	Number Theory II	
MATH 5306	Linear Algebra	
MATH 5311	Real Analysis II	
MATH 5312	Functional Analysis I	
MATH 5315	Combinatorics	
MATH 5316	Graph Theory	
MATH 5321	Complex Variables II	
MATH 5331	Abstract Algebra II	
MATH 5340	Differential Geometry	
MATH 5350	Ordinary Diff Equations I	
MATH 5355	Advanced Topics in Mathematics	
MATH 5360	Partial Differential Equations	
MATH 5367	Numerical Methods for PDE I	
MATH 5368	Numerical Methods for PDE II	
MATH 5375	Probability	
Select a total of three semester hours from the following:		3
MATH 5191	Mathematics Seminar	
MATH 5252	Internship in Mathematics	
MATH 5290	Research Mthds in Mathematics	
<b>Thesis</b>		
MATH 5398	Thesis I	3
MATH 5399	Thesis II	3
<b>Total Semester Credit Hours</b>		<b>36</b>