MATHEMATICS (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/mathematics-ms/).

Program Requirements

Code	Title	Credits
Core Courses		
MATH 521	Real Variables I	3
MATH 531	Abstract Algebra I	3
MATH 535	Linear Algebra I	3
MATH 540	Probability	3
Electives		
Complete 15 credits from the list below.		15
Culminating Experience		
Complete one of the following options:		3
MATH 696	Capstone Project	
MATH 698	Master's Thesis	
Submit the completed thesis original and one copy to the Graduate School. See Thesis Guidelines for details.		
Total Credits		**30**

Electives

Code	Title	Credits
Students may take up to 2 of the following if equivalent courses have not been taken previously		
MATH 515	Intermediate Analysis I	3
MATH 516	Intermediate Analysis II	3
MATH 518	Foundations of Abstract Algebra	3
Select 9-15 credits from the following:		
MATH 522	Real Variables II	3
MATH 525	Complex Variables I	3
MATH 526	Complex Variables II	3
MATH 530	Mathematical Computing	3
MATH 532	Abstract Algebra II	3
MATH 536	Linear Algebra II	3
MATH 551	Topology	3
MATH 554	Projective Geometry	3
MATH 560	Numerical Analysis	3
MATH 562	General Relativity	3
MATH 564	Ordinary Differential Equations	3
MATH 566	Partial Differential Equations	3
MATH 568	Applied Mathematics: Continuous	3
MATH 569	Applied Mathematics: Discrete	3
MATH 580	Combinatorial Mathematics	3
MATH 581	Graph Theory	3
MATH 584	Operations Research	3
MATH 585	Fundamentals of Scientific Computing	3
MATH 586	Fundamentals of Mathematical Models	3
MATH 587	Fundamentals of Optimization	3
MATH 590	Special Topics in Advanced Mathematics	3
MATH 591	Applied Industrial Mathematics	3
MATH 690	Independent Study in Mathematics	3