

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/>).

MATH 591	Applied Industrial Mathematics	3
MATH 595	Seminar	1-4
MATH 690	Independent Study in Mathematics	3

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