

MATHEMATICS (M.A.)

An admissions moratorium is currently in effect for this program.

The Master of Arts with a Major in Mathematics is offered under the following options:

Plan A: Twenty-four credits in course work plus an eight credit thesis.

Plan B: Twenty-seven credits in course work plus a three credit essay.

Plan C: Thirty credits in course work.

Completion of these plans must satisfy the following criteria:

Code	Title	Credits
At least twenty-four credits of course work from the Department of Mathematics. Credits earned toward a thesis or essay in accordance with Plan A or Plan B may be included among these twenty-four credits.		
MAT 5420	Algebra I (if not previously taken)	4
MAT 5430	Algebra II (if not previously taken)	4
MAT 5600 & MAT 5610	Introduction to Analysis I and Introduction to Analysis II (if not previously taken)	7
MAT 6500 or MAT 6600	Topology I (if not previously taken) or Complex Analysis	3
Select at least two of the following (if not previously completed): ¹		6-8
MAT 5100	Numerical Methods I	
MAT 5220	Partial Differential Equations	
MAT 5230	Complex Variables and Applications	
MAT 5410	Applied Linear Algebra	
MAT 5530	Elementary Differential Geometry and its Applications	
MAT 5700	Introduction to Probability Theory	
MAT 5770	Mathematical Models in Operations Research	
STA 5800	Introduction to Mathematical Statistics	
MAT 5870	Methods of Optimization	
Election of at least one additional mathematics course numbered 6000, or higher, with the exception of MAT 7999, MAT 8999 and teacher preparation courses.		2-4
Total Credits		26-30

¹ These courses represent several areas of applied mathematics.

By the time twelve credits have been earned a Plan of Work, approved by a departmental advisor, should be submitted to the director of the master's program in mathematics. At this time, the Graduate Committee will act on the application for candidacy. The student will not be allowed to take more than twelve credits in the master's program unless candidacy has been established.

In the Plan of Work the student will state his or her choice of one of the plans A, B, or C. The choice of plan must be approved by the Graduate Committee.

There is a final oral examination for the master's degree. All students in Plan C are required to take this examination. Students in Plan A or B may, upon recommendation of the thesis or essay advisor, be excused from the final oral examination by the Graduate Committee.

It is required that the thesis or essay of each student in Plans A or B be presented in a public lecture.

NOTE: Candidates for the Master of Arts degree with a major in mathematics or in mathematical statistics are exempt from the requirement of the Graduate School that six credits in the major field must be in courses numbered 7000 and above.

Academic Scholarship: All course work must be completed in accordance with the regulations of the Graduate School (<http://bulletins.wayne.edu/graduate/general-information/academic-regulations/>) and the College of Liberal Arts and Sciences (<http://bulletins.wayne.edu/graduate/college-liberal-arts-sciences/academic-regulations/>).