

MATHEMATICS FOR TEACHING (MS)

The purpose of the program leading to the degree of Master of Science in Mathematics for Teaching is to improve the quality of mathematics instruction and to offer a response to the shortage of community college mathematics teachers. This degree program is offered on an accelerated basis primarily during intensive weekend sessions and may be taken at the rate of two courses per quarter. However, students may proceed through the program at a slower pace depending upon their individual needs. The emphasis in the program is on mathematical content, but significant amounts of time are spent on methods of incorporating new teaching strategies and technologies in the classroom. The program is tied directly to community college curriculum needs and is directed toward bachelor's degree holders in other fields who wish to enter teaching.

Program Requirements	Quarter Hours
Degree Requirements	68
Total hours required	68

Learning Outcomes

Students will be able to:

- Construct a valid logical argument and analyze the reasoning of others.
- Translate a variety of problems, including real world situations, into the language of mathematics thereby leading to a mathematical solution.
- Solve a variety of mathematical problems by applying multiple approaches such as algebraic, numerical, and graphic.
- Communicate mathematical arguments and ideas verbally, making appropriate use of ordinary and mathematical language.

Degree Requirements

Course Requirements

All seventeen courses from the following list:

Course	Title	Quarter Hours
MAT 451	PROBABILITY AND STATISTICS I	4
MAT 452	PROBABILITY AND STATISTICS II	4
MAT 470	ADVANCED LINEAR ALGEBRA	4
MAT 610	CALCULUS I	4
MAT 611	CALCULUS II	4
MAT 612	CALCULUS III	4
MAT 618	TOPICS IN CALCULUS AND DIFFERENTIAL EQUATIONS	4
MAT 620	GEOMETRY	4
MAT 631	HISTORY OF MATHEMATICS THROUGH PROBLEM SOLVING	4
MAT 640	MULTIVARIABLE CALCULUS I	4
MAT 642	MULTIVARIABLE CALCULUS II	4
MAT 644	DIFFERENTIAL EQUATIONS	4
MAT 660	DISCRETE MATHEMATICS	4

MAT 670	ABSTRACT ALGEBRA I	4
MAT 671	ABSTRACT ALGEBRA II	4
MAT 672	LINEAR ALGEBRA	4
MAT 680	REAL ANALYSIS	4

Certain modifications may be made in consultation with and subject to the approval of the Program Director.

Program Graduate Academic Student Handbook

Academic Probation

A student will be placed on academic probation if his/her cumulative GPA falls below 2.50 after completing at least eight credit hours.

Academic Dismissal

A student may be academically dismissed under one or more of the following violations of satisfactory progress:

- student's GPA *only for the first twelve completed credit hours* after being placed on academic probation is below 2.50.
- student's *cumulative* GPA after completing the first 24 credit hours after being placed on academic probation is below 2.50.
- lack of timely progress toward degree completion.

Readmission

The same readmission standards outlined in the Graduate Student Handbook and approval of the program director are observed for students in these programs.

Transfer Credit

No more than two graduate courses (8 quarter credit hours or the semester equivalent) may be transferred from another DePaul program or institution provided that they are equivalent to courses offered in DePaul's graduate program, and they did not count toward another degree from DePaul or another institution. Written approval must come from graduate program director and associate dean for graduate studies.

Undergraduate Courses

No undergraduate courses shall count toward the graduate degree.

Graduation Requirements

Requirements include, but are not limited to, 17 graduate courses required by the program at a minimum cumulative GPA of 2.50.

Graduation with Distinction

A minimum cumulative GPA of 3.75 for coursework applied toward the MSMT is required for graduation with distinction.

Time Limitation

The degree is expected to be completed in a maximum of five years.