



College of Education
Teacher Education Division

Master of Arts in Teaching (400/MATS) Secondary School Mathematics

This program is designed for individuals with a bachelor's degree in mathematics who seek to be certified to teach mathematics to students in grades 7 - 12. Students in this program receive the Michigan Secondary Provisional Certificate while earning credits toward the Master of Arts in Teaching Degree.

To be considered for the M.A.T. program in Secondary School Mathematics, applicants must present evidence of:

1. A bachelor's degree from an accredited college or university.
2. An overall honor point average of 2.6 or higher and at least a 3.0 honor point average in mathematics.
3. An undergraduate major in mathematics and a minor in another secondary certifiable content area.
4. Successful completion of the State Basic Skills Examination. Application forms and information available in the Directed Teaching Office, Room 223 Education.

Requirements for Secondary Certification in Mathematics: Undergraduate Majors and Minors
A minimum of 40 semester hours in mathematics courses equivalent to 12 hours of calculus, 3 hours of linear algebra, 3 hours of probability and statistics, 3 hours of modern algebra, and 16 hours of upper level mathematics courses. If equivalent coursework is not included in the undergraduate major, additional mathematics courses may be required for certification; and a minimum of 20 semester hours in another secondary certifiable content area.

Coursework required for the major or minor certification requirements cannot be included in hours required for the M.A.T. degree.

Student Responsibilities

Plan of Work

After you have been admitted to the M.A.T. program, you should meet with your advisor to complete your Plan of Work. Your Plan of Work must be submitted to the Graduate Education Office for approval, prior to completion of 12 semester hours of graduate coursework.

Coursework

Advanced planning will help ensure the completion of your program in a timely fashion. Information about course offerings can be obtained from the Mathematics Education Department and the College of Science.

Student Teaching

Students must successfully complete the state competency examination for both the major and minor content area prior to student teaching. Information about the examinations is available in

the Directed Teaching Office, Room 223 Education. Your student teaching placement will be arranged through the Directed Teaching Office. Students teaching contacts occur during the Fall and the Winter semesters. Application periods for Directed Teaching area as follows:

To Student Teach:	You Must Apply:
Fall Semester	November 1 to January 31
Winter Semester	April 1 to July 31

Education Courses

Semester I		
EHP 7600	Philosophy of Education	2 cr.
BBE 5000	Multicultural Education	2 cr.
SED 7050	Mainstreaming	2 cr.
TED 6020	Computer Applications in Teaching	3 cr.
Semester II		
TED 5160*	Analysis of Secondary School Teaching	3 cr.
TED 5650*	Pre-student Teaching Field Studies in Education	3 cr.
MAE 6050	Teaching Math in Middle School/Jr. High	3 cr.
EDP 6210	Foundations of Educational Psychology	3 cr.
	or	
EDP 5480	Adolescent Psychology	3 cr.
*TED 5160 and TED 5650 must be taken concurrently		
Semester III		
RDG 6120	Reading in the Content Areas	3 cr.
MAE 5150	Methods and Materials for Instruction-Secondary	3 cr.
	See advisor for required methods course for minor area	3 cr.
Semester IV		
TED 5780	Directed Teaching and Conference	10 cr.

Total Credit Hours for Certification 40 hrs.

Additional Coursework for the Completion of the MAT Degree

MAE xxxx	Mathematics Education Elective	3 cr.
MAE xxxx	Mathematics Education Elective	3 cr.
MAT xxxx	Mathematics Elective	3/4 cr.
TED 7000	Introductory Master's Seminar (Math Educ Section)	3 cr.
E D 7999	Terminal Master's Seminar (Math Educ Section)	3 cr.

Total Credit Hours Required for Degree: 55/6

Mathematics Education Electives

In consultation with your advisor, you must choose any two courses from among MAE 6150, 8050, 8100, 8150, & 8200.

Mathematics Elective

In consultation with your advisor and based on your specific mathematics preparation, you may select any mathematics course (3 or 4 credits) at the 5000 level or higher.

Master's Degree Seminars

You should plan to complete the Introductory Master's Seminar (TED 7000) and the Terminal Master's Seminar (ED 7999) in the same academic year near the completion of your program. When registering for these seminars, students are advised to select the section designated for Mathematics Education students. The Mathematics Education sections of these seminars are only offered during Fall (TED 7000) and Winter (ED 7999) Terms.

Graduation

You must submit an application to graduate. Your application must be submitted to the Central Records Office, 1 West HNJ Student Services Center, no later than the first day of classes for the semester in which you will complete your degree requirements.

Revised 5/10/00