

MATHEMATICS EDUCATION TEACHER PREPARATION PROGRAM

Master of Science (M.S.) in Mathematics Education (Grades 7–12)



Syracuse University's master's program in Mathematics Education Grades 7–12 prepares students for teaching diverse students in 21st-century classrooms.

THE PROGRAM ALIGNS WITH THE PROFESSIONAL STANDARDS of the National Council of Teachers of Mathematics and the New York State Teaching and Learning Standards. From experiences in university classrooms, online, and in schools and communities, you will learn to design inclusive, culturally relevant pedagogy for all students. The program

graduates new professionals who are ready to teach mathematical practices, along with concepts and procedures. Whether working in classrooms or in the community, our graduates understand the key role that mathematics educators play in developing mathematical literacy across the curriculum and for life purposes that extend beyond school.

The program requires 38 credits and is designed to be completed full time in 14 to 16 months, beginning in May. Students who enter with education study equivalent to one of the courses below may have their syllabi reviewed for waiver of courses. In no case will graduate credits required be less than 30.

WHY APPLY TO SU'S MATHEMATICS EDUCATION PROGRAM GRADES 7–12?

- You will take classes with faculty members who are specialists and deeply interested in educational theory and research in the field of mathematics education.
- Our program has strong collaborative ties with faculty in the Department of Mathematics. You will continue to develop your content knowledge while learning how to teach and work with students and communities.
- Small student cohorts mean you get to know teachers and peers who will become your lifelong colleagues.
- The first three terms—summer, fall, and spring—center on intensive field placement to provide rich teaching experience with youth from diverse backgrounds.

(over)



SYRACUSE UNIVERSITY

ADMISSION PREREQUISITES

This program requires either a completed mathematics major of 33 or more credits, including 12 credits of calculus, 3 credits of linear algebra, and 3 credits of analysis; or a major in another area, with at least 30 credits of major-level mathematics courses (calculus and above) at entry, including 12 credits of calculus, 3 credits of linear algebra, and 3 credits of analysis. Both groups must have a total of 36 credits minimum of major-appropriate mathematics courses before a degree can be granted.

Additional application information and information about other liberal arts distribution courses required are available on the program website. Prospective students are encouraged to connect with the department about these requirements and with other questions early in, or before beginning, the application process.

CONTACT

School of Education

Mathematics Education
Teacher Preparation
Program

Department of Teaching
and Leadership

Joanna Masingila
Dean, School of
Education and
program coordinator
jomasing@syr.edu

Program Assistant
315-443-9659

soe.syr.edu/academic/teaching_and_leadership/graduate/masters/mathematics_education/default.aspx

soe.syr.edu

M.S. MATHEMATICS EDUCATION (38 CREDITS)

FIRST SUMMER

COURSE		CREDITS
EDU 606	Understanding Learning and Teaching *	4
ELL 645	Issues in Educating English Language Learners	3
RED 625	Literacy Across the Curriculum*	4

FALL—CANDIDACY SEMESTER

SED 613	Methods and Curriculum in Teaching/Mathematics	3
SPE 612	Adapting Instruction for Diverse Student Needs	3
EDU 508	Student Teaching/Candidacy/ Mathematics*	3

Mathematics course 3

Safe and Healthy Learning Environments which includes the following topics: identifying/reporting child abuse, violence prevention, child abduction prevention, highway/general safety, alcohol/drug/tobacco prevention, fire and arson prevention, and training related to the Dignity for All Students (DASA) Act. 0

SPRING—STANDARD STUDENT TEACHING SEMESTER

EDU 508	Student Teaching/Mathematics*	6
SED 616	Assessment and Data-Driven Instruction/Mathematics	3

SECOND SUMMER

Mathematics course 3

Mathematics education course 3

A written master's degree intensive examination is also required. New York State Teacher certification has additional testing and other requirements.

**Indicates field experience or student teaching*