

MATHEMATICS EDUCATION

Boston University School of Education Graduate Programs

DEGREES AND CERTIFICATE OFFERED:

MASTER OF ARTS IN TEACHING (MAT)

MASTER OF EDUCATION (ED.M.)

CERTIFICATE OF ADVANCED GRADUATE STUDY (CAGS)

MASTER OF MATHEMATICS FOR TEACHING (MMT)

DOCTOR OF EDUCATION (ED.D.) IN CURRICULUM AND TEACHING

Boston University's Mathematics Education graduate program focuses on both the content and teaching of mathematics. This includes mastery of fundamental mathematical concepts and processes, as well as the development of curricula and teaching methods that apply to different age groups, interests, and aptitudes. As a graduate student, you may pursue the Master of Arts in Teaching (MAT), Master of Education (Ed.M.), Certificate of Advanced Graduate Study (CAGS), Master of Mathematics for Teaching (MMT), or Doctor of Education (Ed.D.).

MAT

Our 12-month MAT program offers a joint master's degree that draws upon the rich resources of the entire University. You will complete four courses in your chosen field of study in the Graduate School of Arts and Sciences and learn the science and methodology of teaching in the School of Education. The MAT program, which leads to licensure, requires completion of 46-credits.

Required Courses for MAT

SED ED 500	Foundations of Educational Practices plus ED 501 Laboratory
SED DS 502	Introduction to Adolescent Development
SED SE 510	Special Education: Curriculum and Instruction
SED CT 575	General Methods of Instruction, Grades 5-12

SED ME 547 Methods of Teaching Mathematics: High School or

SED ME 546 Methods of Teaching Mathematics: Middle School

SED RS 600 Perspectives on Inquiry

- Student-Teaching Practicum (8 semester credits)

- Four graduate courses (16 semester credits) in the academic field of specialization

Ed.M. and CAGS

The Ed.M. and CAGS are designed for teachers holding an initial license that wish to expand their academic content base and teaching talents by becoming informed about the latest research, curricula, methodologies, and theories in mathematics education. Teachers on sabbatical leave and school systems with special needs are encouraged to inquire about specially designed sequences. The Ed.M. degree is designed for those who hold a license and wish to broaden their understanding of mathematics and mathematics education. The degree consists of 36 credits.

Required Courses for the Ed.M.

SED RS 600 Perspectives on Inquiry

SED ME 558 Mathematics Curriculum: Programs, Issues, and Trends

SED ME 563 Problem Solving Laboratory

- Four mathematics courses appropriate for the level taught
- At least one methods of teaching mathematics course

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- One elective

CAGS

The CAGS degree is designed for those who hold a license and a master's degree and wish to further broaden their understanding of mathematics and mathematics education. The degree consists of a minimum of 30 credits and a comprehensive exam.

Required Courses for the CAGS

SED ME 558 Mathematics Curriculum: Programs, Issues, and Trends

SED ME 563 Problem Solving Laboratory

- At least one research course, two-four mathematics courses appropriate for the level taught, at least one methods of teaching mathematics course, plus electives.

MMT

The MMT program is designed to identify exceptionally strong mathematicians within the mathematics teacher community and offer a content-rich experience of mathematics that will be relevant to their work in the classroom. The program helps our students prepare for leadership roles in developing mathematics curriculum and teacher training. The courses, which emphasize depth over breadth, are designed around mathematics for teaching and offer a field study in mathematics education. Our MMT program requires 38 credits, including 18 credits from the School of Education and 20 credits from the Graduate School of Arts and Sciences.

You are encouraged to apply to the program if you hold an initial license for teaching mathematics and have taught a minimum of two years under that license. The core of the program consists of three six-week summer programs of mathematics intensive study and professional development:

- The first summer will focus on an immersion experience in mathematics.
- The second summer will broaden the immersion through a research experience in mathematics.
- The third summer will center on a field study in mathematics education.

Ed.D.

Our doctoral students prepare for leadership positions in school systems or postsecondary positions in junior, community, or technical colleges, and in teacher training colleges and universities.

Practicum

Boston University enjoys long-standing relationships with many inner city and suburban school systems in Greater

Boston that offer our students rewarding field experiences under the guidance of expert teachers and faculty. The School of Education reserves the right to determine whether a student is fully prepared to enter any professional field experience. This would include passing the SED Literacy Test prior to starting the practicum.

Frequently Asked Questions

Q: Will I become licensed to teach?

A: Students who complete Boston University's state-approved teacher licensure program are eligible for licensure in Massachusetts and may be eligible for licensure in 44 other states through a reciprocal agreement. Faculty advisors are prepared to assist students seeking licensure. Students are required to complete an appropriate course selection to meet the licensure standards and any additional Massachusetts Board of Education requirements.

Q: What are the qualifications for graduate admission?

A: Applicants are considered on the basis of their total application. Your statement of qualifications and objectives should be carefully prepared and should make clear why you wish to study in and pursue a career in the field of math education. Your recommendations and graduate test scores round out the application package. For your graduate test scores, you must complete either the general test of Graduate Record Examination (GRE), or the Miller Analogies Test (MAT), if you have not taken either test within the last five years.

Q: Is financial aid available?

A: Each academic year, the School of Education awards approximately \$3.5 million dollars in scholarship money to its full-time graduate students. Merit-based scholarships of \$22,000 are currently available to many full-time students. Priority is given to students who apply for aid by February 15. Ed.D. candidates are encouraged to apply by January 15. Please contact the SED Graduate Office of Financial Assistance at sedaid@bu.edu.

Contact:

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For more information about the School of Education, visit www.bu.edu/education.