

Teaching and Learning, MA

Mathematics Education

The Master of Arts in teaching and learning with a mathematics education subprogram requires a minimum of 32 s.h. of graduate credit with a Graduate College program grade-point average (GPA) of at least 3.00 for graduation.

The program provides students with advanced specialization in mathematics and education as a better foundation for K-12 teaching.

The MA in teaching and learning with a mathematics education subprogram requires the following coursework.

Requirements	Hours
Mathematics Education Core Courses	12
Mathematics Courses	9
Elective Courses	11

Mathematics Education Core Courses

Course #	Title	Hours
All of these:		
EDTL:6570	Foundation of School STEM Curriculum	3
EDTL:6757	Learning in the Science Classroom (must be completed for 3 s.h.)	3
EDTL:6759	Advanced Pedagogy	3
EDTL:7004	Schooling in the United States	3

Mathematics Courses

Students complete 9 s.h. of mathematics (prefix MATH) courses numbered 4000 or above.

Elective Courses

Students complete 11 s.h. in elective coursework numbered 3000 or above. Students must choose a cognate area for their electives, usually enrolling in three or more courses in the area. Cognates include educational psychology, educational statistics and measurement, history or philosophy of education, pure or applied mathematics, instructional design and technology, counselor education, curriculum, administration, and special education.

Courses in the following subject areas are chosen in consultation with a faculty member from the cognate area: counselor education (prefix CSED), educational policy and leadership studies (prefix EPLS), mathematics (prefix MATH), psychological and quantitative foundations (prefix PSQF), and teaching and learning (prefix EDTL).

Additional elective coursework beyond the cognate should be selected from teaching and learning (prefix EDTL) or mathematics (prefix MATH) courses numbered 3000 or above, chosen with the approval of the advisor, to complete a total of 32 s.h. of credit.

Recommended courses include the following.

Course #	Title	Hours
EDTL:4750	Assessment in Science, Technology, Engineering, and Mathematics (STEM)	2
EDTL:4751	Learning in the Science, Technology, Engineering, and Mathematics (STEM) Classroom	2
PSQF:6200	Educational Psychology	3

Final Examination

Students take three two-hour final exams: one in mathematics education, the second in mathematics, and the third in their cognate area.

Admission

Applicants must meet the admission requirements of the Graduate College. Except in unusual cases, they should hold a professional license/certificate to teach school mathematics.