

# MEd in Learning, Teaching and Curriculum with Emphasis in Mathematics Education

This program emphasizes

- Current issues in mathematics education
- Elementary or secondary mathematics content
- Increasing equity in mathematics teaching and learning
- Recent research in mathematics education
- Strategies for incorporating technology into mathematics instruction

## Degree Requirements

Delivery of this program is 100 percent online: no campus visits are required. However, you may choose to enroll in electives that require face-to-face meetings on campus. Course work may be tailored for teachers of any grade level with optional areas of focus in elementary or secondary education. Successful completion of the program requires 30 credit hours. At least 15 credit hours must be at the 8000 level.

More information about the Mathematics Education M.Ed. program (<https://online.missouri.edu/degrees-programs/mu/education/mathematics-education/m-ed/>) can be found on the Missouri Online website.

Master's Core		9
LTC 8913	Curriculum Development	3
LTC 8914	Culturally Responsive Pedagogy	3
LTC 8915	Classroom Research-Learning, Teaching and Curriculum	3
Mathematics Education or Mathematics Courses		18
Students may choose to focus in a particular concentration or create a customized concentration.		
K-12 Mathematics Education Courses		
LTC 8865	Assessment in Mathematics Education	3
LTC 8866	Contemporary Curriculum Issues in Mathematics Education	2
LTC 8875	Technology and Mathematics Education	3
LTC 8886	Contemporary Equity Issues in Mathematics Education	3
LTC 8896	Secondary Mathematics from an Advanced Perspective	3
LTC 8900	Seminar in Curriculum and Instruction	1-3
STAT 7050	Connecting Statistics to Middle and Secondary Schools	3
MATH 7060	Connecting Geometry to Middle and Secondary Schools	3
MATH 7070	Connecting Algebra to Middle and Secondary Schools	3
Elementary Mathematics Education Courses		
LTC 8871	Teaching and Learning Number/Operations Advanced	3
LTC 8881	Internship - Number and Operations in Elementary Schools	1

LTC 8872	Teaching and Learning Rational Number Advanced	3
LTC 8882	Internship - Rational Numbers in Elementary Schools	1
LTC 8873	Teaching and Learning Geometry and Measurement Advanced	3
LTC 8883	Internship - Geometry/Measurement in Elementary Schools	1
LTC 8874	Teaching and Learning Algebraic Reasoning Advanced	3
LTC 8884	Internship - Algebraic Reasoning in Elementary Schools	1
LTC 8876	Teaching Data Analysis and Mathematical Modeling	3
LTC 8877	Foundations of Mathematics Leadership in Elem Schools	2
LTC 8878	Mathematical Leadership for Elementary Schools Advanced	3

### Optional Graduate Mathematics Courses

As course availability is dependent on Math Department offerings, please check schedule of courses.

MATH 7080	Connect Calculus to Middle and Secondary Schools	3
MATH 7100	Differential Equations	3
MATH 7120	Graph Theory and Combinatorics	3
MATH 7140	Matrix Theory	3
MATH 7510	Higher Algebra	3
MATH 7540	Mathematical Modeling I	3
MATH 7940	Introduction to Complex Variables	3

Education Electives		3
Choose 3 hours of electives from above or from various education electives		
ED_LPA 7428	Curriculum Leadership	3
ED_LPA 8424	Education Politics and Policymaking	3
ESC_PS 7115	Human Learning	3
IS_LT 9467	Technology to Enhance Learning	3
LTC 8642	Teaching Writing and Reading in Content Areas	3
LTC 8647	Language and Culture for Educators	3
LTC 8085	Problems in Curriculum and Instruction	1-3
SPC_ED 7300	Introduction to Special Education	3
SPC_ED 8330	Advanced Teaching Mathematics in Special Education	3

## Admissions

Applicants are required to meet two sets of minimum qualifications for admission: the requirements of the MEd in Learning, Teaching and Curriculum program (<https://gradschool.missouri.edu/degreecategory/learning/>) and the minimum requirements of the Graduate School (<https://gradschool.missouri.edu/admissions/eligibility-process/>). Because requirements vary, you must refer to a degree program's graduate admission page to learn about specific admission criteria, application deadlines, eligibility and application process. Your application materials will be reviewed by both the Graduate School and the degree program to which you've applied before official admission to the University of Missouri.

The LTC graduate program cannot assure admission to all applicants who meet minimum standards specified for the degree program.

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Resource constraints do not permit the admission of all qualified applicants.

A committee of faculty reviews the credentials of each applicant. It is the responsibility of this committee to exercise professional judgment related to the criteria that applicants must meet in order to be considered for admission to the program.