

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

## **Degree Requirements**

The Ed.S. is a 30-hour program beyond a master's degree. Coursework is comprised of at least 15 hours at the 8000 level or higher; and at least half the coursework in education. The program of study is approved by the student's advisor and two committee members. Courses for this program are 100 percent online: no campus visits are required. However, you may choose to enroll in electives that require face-to-face meetings on campus.

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

The course work for the Educational Specialist degree in Mathematics Education is comprised of three key areas: Mathematics Education, general electives, and research.

#### Research core (9 credit hours)

ESC_PS 7170	Introduction to Applied Statistics (or equivalent introductory stats class as approved by advisor)	3
ESC_PS 8020	Overview of Research Methods	3
LTC 8910	Individual Research (3 credit hours)	3
Mathematics Education of	or Mathematics courses (15 credit hours)	
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
LTC 8085	Problems 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
<b>Elementary Mathematics</b>	Education courses	
LTC 8871	Teaching and Learning Number/ Operations Advanced	3
LTC 8872	Teaching and Learning Rational Number Advanced	3
LTC 8873	Teaching and Learning Geometry and Measurement Advanced	3
LTC 8874	Teaching and Learning Algebraic Reasoning Advanced	3

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 Mathe	ematics courses	
As course availability is de	ependent on Math Department offerings,	
please check schedule of	courses.	
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 (6 credit hours)

Any 8000 level or above ED\_LPA, ESC\_PS, IS\_LT, LTC or SPEC\_ED class based on student interest and course availability (with advisor approval)

### Admissions

Applicants are required to meet two sets of minimum qualifications for admission: the requirements of the EdS 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. 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.