



MATHEMATICS SPECIALIST, GRADES 1-6

EDUCATOR PREPARATION PROGRAM NAME LINDENWOOD UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 081759
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INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

Certification Requirements:

- Course Number – List the course number(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Course Title – List the course title(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Semester Hours – List the number of semester hours for each specific section. It is possible to use decimals (to the nearest tenth) to indicate partial use of a course to meet a requirement. The total number of semester hours must meet or exceed the minimum required number of semester hours.

Email the completed cover sheet, curriculum matrix, and advising/program information to DESE.MoSPETransition@dese.mo.gov on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or DESE.MoSPETransition@dese.mo.gov

General Requirements

Valid Missouri Teaching Certification

Two-Years of Mathematics Teaching Experience

A. Professional Requirements (Minimum of 24 semester hours)

1. Mathematical Content Knowledge

	Course Number	Course Title	Semester Hours
a. Mathematics Knowledge-Concepts, structures, skills, and processes of school mathematics from an advanced perspective including number/operation; geometry/measurement; algebra; and probability and statistics	MTH 14100	Basic Statistics	3
	MTH 14800	Mathematical Structures for Teachers I	4
	MTH 14900	Mathematical Structures for Teachers II	3
	MTH 15100	College Algebra	3
	MTH 15200	Pre-calculus: Elementary Functions	3
	MTH 17300	Survey of Calculus Or equivalent/higher level math courses	4
b. Specialized Mathematics Knowledge of Teaching-Mathematics that relates to helping student understand school mathematics, often referred to as Mathematics Knowledge for Teaching (MKT)	EDM 53800/EDAM 63800	Numbers and Operations	1.5
	EDM 54000/EDAM 64000	Geometry and Measurement	1.5
	EDM 55000/EDAM 65000	Algebraic Reasoning	1.5
	EDM 56000/EDAM 66000	Data Analysis, Statistics, and Probability	1.5

2. Pedagogical Content Knowledge (PCK) for Mathematics

	Course Number	Course Title	Semester Hours
a. Understanding how students and adults learn mathematics	EDM 58095/EDAM 68095	Elementary Mathematics Specialists: Influencing and Facilitating Improvement	1.5
b. Effective teaching strategies for supporting mathematics learning	EDM 53800/EDAM 63800	Numbers and Operations	1.5
	EDM 54000/EDAM 64000	Geometry and Measurement	1.5
	EDM 55000/EDAM 65000	Algebraic Reasoning	1.5
	EDM 56000/EDAM 66000	Data Analysis, Statistics, and Probability	1.5
c. Curriculum trajectories, materials, standards and methods for aligning curriculum systems	EDU 52000 or	Curriculum Analysis and Design or transfer course from another institution if student already has a MA degree Instructional Program Leadership and Assessment	3
	EDAM 60000		
d. Evaluation of mathematical abilities and achievement including formal and informal diagnostic procedures and in prescriptive instruction	EDM 58000/EDAM 68000	Foundations of Mathematics Education Leadership	1.5

3. Foundations of Leadership			
	Course Number	Course Title	Semester Hours
a. Effective communication strategies within and outside school	EDM 58090/EDAM 68090	Mathematics Leadership: Influencing and Facilitating Improvement	1.5
b. Professional development expertise ability to plan, develop, implement and evaluate learning environments for teachers	EDM 58090/EDAM 68090	Mathematics Leadership: Influencing and Facilitating Improvement	1.5
c. Ability to establish and nurture professional communities of learners-students, parents, and educators	EDM 58095/EDAM 68095	Elementary Mathematics Specialists: Influencing and Facilitating Improvement	1.5
d. Informed about and contribute to policy and professional organization work related to teaching and learning mathematics	EDM 58000/EDAM 68000	Foundations of Mathematics Education Leadership	1.5
4. Culminating Clinical Experience (Three semester hours of experience working with a full range of students and educators in various professional development settings)			
	Course Number	Course Title	Semester Hours
	EDM 53900/EDAM 63900	Seminar w Internship I Numbers and Operations	1
	EDM 54500/EDAM 64500	Seminar w Internship II: Geometry and Measurement	1
	EDM 55500/EDAM 65500	Seminar w Internship III Algebraic Reasoning	1
	EDM 56500/EDAM 66500	Seminar w Internship IV Data Analysis, Statistics, and Probability	1
Professional Requirements - Total Semester Hours			41

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