



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME  
LINDENWOOD UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE  
018759

**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](mailto: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](mailto:DESE.MoSPETransition@dese.mo.gov)

**A. Professional Requirements (Minimum of 26 semester hours)**

**1. Content Planning and Delivery**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Curriculum and Instructional Planning	EDU 32100	Middle School/High School Classroom Teaching and Technology	3
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 33100	Secondary Methods of Teaching Mathematics	3
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 40400	Advanced Measurement and Evaluation to Enhance Learning	3
d. Strategies for Content Literacy	EDU 38700	Reading/Writing Across the Curriculum	3
	OR		
	EDU 30700	Reading in the Content Area	3
	OR		
	EDU 30710	Content Literacy for Diverse Learners	3
e. Critical Thinking and Problem Solving	EDU 32100	Middle School/High School Classroom Teaching & Technology	3
	EDU 34300	Middle School/High School Differentiation and Classroom Management	3
	EDU 30710	Content Literacy for Diverse Learners	3
f. English Language Learning	EDU 30710	Content Literacy for Diverse Learners	3

**2. Individual Student Needs**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Psychological Development of the Child and Adolescent	EDU 20200	Psychology of Teaching and Learning	3
b. Psychology/Education of the Exceptional Child	EDU 34100	Education of the Exceptional Child	3
c. Differentiated Learning	EDU 32100	Middle School/High School Classroom Teaching & Technology	3
	EDU 34300	Middle School/High School Differentiation and Classroom Management	3
d. Classroom Management	EDU 32100	Middle School/High School Classroom Teaching & Technology	3
	EDU 34300	Middle School/High School Differentiation and Classroom Management	3
e. Cultural Diversity	EDU 10000	Orientation to Educational Experiences	3
	EDU 30710	Content Literacy for Diverse Learners	3
f. Educational Psychology	EDU 20200	Psychology of Teaching and Learning	3

3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 32100	Middle School/High School Classroom Teaching and Technology	3
	EDU 34300	Middle School/High School Differentiation and Classroom Management	3
	EDU 40400	Advanced Measurement and Evaluation to Enhance Learning	3
b. Legal/Ethical Aspects of Teaching	EDU 10000	Orientation to Educational Experiences	3
	EDU 32100	Middle School/High School Classroom Teaching and Technology	3
	EDU 40400	Advanced Measurement and Evaluation to Enhance Learning	3
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 38700	Reading/Writing Across the Curriculum	3
b. Instructional Interventions for Students with Reading Deficits	EDU 30710	Content Literacy for Diverse Learners	3
<b>Professional Requirements - Total Semester Hours</b>			<b>27</b>
B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	EDU 11100	School Observation	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 38000	Pre-Student Teaching Practicum	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 41000	Field Experience: Student Teaching	12
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>14</b>
C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	MTH 27100	Calculus I	5
	MTH 27200	Calculus II	5
2. Algebraic Structures (three semester hours)	MTH 32000	Algebraic Structures	3
3. Geometry (three semester hours)	MTH 33000	Geometry	3
4. Computer Science (three semester hours)	CSC 14400	Computer Science I	4
5. Electives from the above coursework (six semester hours)	MTH 30300	Calculus III	5
	MTH 31100	Differential Equations	3
	MTH 34500	Regression Analysis	3
	MTH 35100	Numerical Methods	3
	MTH 36100	Partial Differential Equations	3
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:			
a. History of Mathematics (three semester hours)	MTH 31300	History of Mathematic	3
b. Structure of the Real Number System (three semester hours)	MTH 28500	Introduction to Advanced Mathematics	3
c. Number Theory (three semester hours)	MTH 31600	Linear Algebra II	3
d. Completion of Calculus Sequence (three semester hours)	MTH 37000	Advanced Calculus	4
e. Probability and Statistics (three semester hours)	MTH 24100	Statistics for Natural Science	3
f. Computer Science (three semester hours)	CSC 10011 or	Intro to Computer Science: Python or	3
	CSC 10022	Intro to Computer Science: Javascript	3
g. Linear Algebra (three semester hours)	MTH 31500	Linear Algebra I	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>36</b>

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