



**MATHEMATICS, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>COLLEGE OF THE OZARKS</b>	<b>004235</b>
---	---------------

**INSTRUCTIONS**

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

**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)**

<b>1. Content Planning and Delivery</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Curriculum and Instructional Planning	EDU 213	The Call to Teach, An Introduction to Teaching	3
	OR		
	EDU 213	Orientation to Teach	3
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE
	EDU 353	Instructional Interventions	HLE
	EDU 4243	Best Practices in Teaching Mathematics	3
b. Instructional Strategies and Techniques in Content Area Specialty	OR		
	MAT 423	Methods of Teaching Math	HLE
	EDU 4202	Implementation of Secondary School Best Practices	HLE
	EDU 201	Classroom Observation	1
	EDU 211	Classroom Participation	1
	EDU 4243	Best Practices in Teaching Mathematics	HLE
c. Assessment, Student Data, and Data-Based Decision-Making	OR		
	MAT 423	Methods of Teaching Math	HLE
	EDU 4202	Implementation of Secondary School Best Practices	HLE
	EDU 423	Educational Assessment and Data-Based Decision Making	3
	EDU 393	Methods of Teaching Literacy in the Secondary School	3
	EDU 213	The Call to Teach, An Introduction to Teaching	HLE
d. Strategies for Content Literacy	EDU 393	Methods of Teaching Literacy in the Secondary School	3
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE
	EDU 4243	Best Practices in Teaching Mathematics	HLE
	OR		
	MAT 423	Methods of Teaching Math	HLE
	EDU 4202	Implementation of Secondary School Best Practices	HLE
e. Critical Thinking and Problem Solving	EDU 303	Education of the Exceptional Learner	3
<b>2. Individual Student Needs</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Psychological Development of the Child and Adolescent	EDU 203/PSY 213	Psychological Development of the Child and Adolescent	3

b. Psychology/Education of the Exceptional Child	EDU 303	Education of the Exceptional Learner	HLA
c. Differentiated Learning	EDU 303	Education of the Exceptional Learner	HLE
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE
	EDU 353	Instructional Interventions	HLE
	EDU 4243 OR	Best Practices in Teaching Mathematics	HLE
	MAT 423 EDU 4202	Implementation of Secondary School Best Practices	HLE
d. Classroom Management	EDU 213	The Call to Teach, An Introduction to Teaching	HLE
	EDU 4243 OR	Best Practices in Teaching Mathematics	HLE
	MAT 423 EDU 4202	Methods of Teaching Math Implementation of Secondary School Best Practices	HLE
e. Cultural Diversity	EDU 303	Education of the Exceptional Learner	HLE
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE
	EDU 4243 OR	Best Practices in Teaching Mathematics	HLE
	MAT 423 EDU 4202	Methods of Teaching Math Implementation of Secondary School Best Practices	HLE
f. Educational Psychology	PSY 273	Educational Psychology	3
<b>3. Schools and the Teaching Profession</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	EDU 303	Education of the Exceptional Learner	HLE
	EDU 4243 OR	Best Practices in Teaching Mathematics	HLE
	MAT 423 EDU 4202	Methods of Teaching Math Implementation of Secondary School Best Practices	HLE
b. Legal/Ethical Aspects of Teaching	EDU 213	The Call to Teach, An Introduction to Teaching	HLE
	EDU 303	Education of the Exceptional Learner	HLE
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE
	EDU 4243 OR	Best Practices in Teaching Mathematics	HLE
	MAT 423 EDU 4202	Methods of Teaching Math Implementation of Secondary School Best Practices	HLE
<b>4. Secondary Literacy (Minimum of six semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Reading and Writing in the Content Area	EDU 393	Methods of Teaching Literacy in the Secondary School	HLA
b. Instructional Interventions for Students with Reading Deficits	EDU 353	Instructional Interventions	3
<b>Professional Requirements - Total Semester Hours</b>			<b>29 Sem Hrs</b>
<b>B. Field and Clinical Experiences (Minimum of ten semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	EDU 201	Classroom Observation	HLA (20 clk hrs)
	EDU 211	Classroom Participation	HLA (20 clk hrs)
	EDU 213	The Call to Teach, An Introduction to Teaching	HLA (2 clk hrs)
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 303	Education of the Exceptional Learner	HLE (5 clk hrs)
	EDU 333	Analysis of Curriculum and Methods of Teaching	HLE (10 clk hrs)
	EDU 353	Instructional Interventions and Differentiated Learning	HLE (8 clk hrs)
	EDU 393	Methods of Teaching Literacy in the Secondary School	HLE (8 clk hrs)
	EDU 4202	Implementation of Secondary School Best Practices	2 (32 clk hrs)

3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 441 EDU 45V	Classroom Leadership Student Teaching	1 (1 week) 11 (13 weeks)
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>15+ Sem Hrs</b>
<b>C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Calculus and Analytical Geometry (nine semester hours)	MAT175 MAT205	Calculus I Calculus II	10
2. Algebraic Structures (three semester hours)	MAT433 OR MAT433	Introduction to Abstract Algebra OR Modern Algebra	3
3. Geometry (three semester hours)	MAT323	Geometry	3
4. Computer Science (three semester hours)	CSC133	Programming Fundamentals	3
5. Electives from the above coursework (six semester hours)	MAT205 MAT305	Calculus II Calculus III	HLE 5
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)			
b. Structure of the Real Number System (three semester hours)	MAT403 OR MAT403	Introduction to Real Analysis OR Advanced Calculus	3
c. Number Theory (three semester hours)	**MAT373	Number Theory	3
d. Completion of Calculus Sequence (three semester hours)			
e. Probability and Statistics (three semester hours)	MAT343	Probability and Statistics	3
f. Computer Science (three semester hours)	**MAT353	Numerical Analysis	3
g. Linear Algebra (three semester hours)	MAT333	Linear Algebra	3
<b>Content Knowledge Area - Total Semester Hours</b>			<b>36</b>

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6<sup>th</sup> Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email [civilrights@dese.mo.gov](mailto:civilrights@dese.mo.gov).

\*HLE-Hours Listed Elsewhere

\*\* Students are required to take either MAT 373 OR MAT 353 (only 3 hours required).