



MATHEMATICS, GRADES 9-12 - ALTERNATIVE

EDUCATOR PREPARATION PROGRAM NAME Missouri Western State University	EDUCATOR PREPARATION PROGRAM CODE 160160
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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

A. Professional Requirements (Minimum of 26 semester hours)

1. Content Planning and Delivery

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	EDU 365	Instructional Methods for K-12 Learners	3
b. Instructional Strategies and Techniques in Content Area Specialty	MAT 465	Mathematics Teaching: Methods & Materials	3
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 225	Educational Psychology	1
d. Strategies for Content Literacy	EDU 311	Secondary Reading Techniques	Hours Listed Below
e. Critical Thinking and Problem Solving	EDU 202	Introduction to Education	1
f. English Language Learning	EDU 308	Multicultural Education	1

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY 140	Psychological Development of Children & Adolescents for Educators	3
b. Psychology/Education of the Exceptional Child	EDU 315	Psychology & Education of the Exceptional Child	2
c. Differentiated Learning	EDU 315	Psychology & Education of the Exceptional Child	1
d. Classroom Management	EDU 370	Behavior Management	2
e. Cultural Diversity	EDU 225 EDU 308	Educational Psychology Multicultural Education	.5 2
f. Educational Psychology	EDU 225	Educational Psychology	1.5

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 202	Introduction to Education	1
b. Legal/Ethical Aspects of Teaching	EDU 202	Introduction to Education	1

4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 311	Secondary Reading Techniques	3
b. Instructional Interventions for Students with Reading Deficits	EDU 430	Teaching Students with Reading Deficits	3
Professional Requirements - Total Semester Hours			26
B. Field and Clinical Experiences (Minimum of 10 semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)		Required to hold a Missouri Provisional Certification and complete 2 years of teaching	
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)		Required to hold a Missouri Provisional Certification and complete 2 years of teaching	
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)		Required to hold a Missouri Provisional Certification and complete 2 years of teaching	
Field and Clinical Experiences - Total Semester Hours			
C. Mathematics Content Knowledge Area (Minimum of 36 semester hours) **All fulfilled by required passage of the designated Missouri Content Assessment.			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (9 semester hours)			
2. Algebraic Structures (3 semester hours)			
3. Geometry (3 semester hours)			
4. Computer Science (3 semester hours)			
5. Electives from the above coursework (6 semester hours)			
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least 3 of the following areas of Mathematics			
a. History of Mathematics (3 semester hours)			
b. Structure of the Real Number System (3 semester hours)			
c. Number Theory (3 semester hours)			
d. Completion of Calculus Sequence (3 semester hours)			
e. Probability and Statistics (3 semester hours)			
f. Computer Science (3 semester hours)			
g. Linear Algebra (3 semester hours)			
Content Knowledge Area - Total Semester Hours			**All fulfilled by required passage of the designated Missouri Content Assessment.

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