



**MATHEMATICS, GRADES 9-12 - GRADUATE**

EDUCATOR PREPARATION PROGRAM NAME  
ROCKHURST UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE  
501839

**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**

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	ED 6030 ED 6160 ED 6500	Technology in Education Teaching Middle and Secondary School Math Curriculum Methods and Assessment in Secondary School	3
b. Instructional Strategies and Techniques in Content Area Specialty	ED 6030 ED 6160 ED 6500	Technology in Education Teaching Middle and Secondary School Math Curriculum Methods and Assessment in Secondary School	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED 6160 ED 6500	Teaching Middle and Secondary School Math Curriculum, Methods, and Assessment in Secondary Education	3
d. Strategies for Content Literacy	ED 6020	Fundamentals of Literacy Learning	3
e. Critical Thinking and Problem Solving	ED 6020 ED 6030 ED 6160	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Math	3
f. English Language Learning	ED 6020 ED 6030 ED 6160 ED 6450	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Math Foundations of Special Education	3

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ED 6400	Advanced Psychological Foundations	3
b. Psychology/Education of the Exceptional Child	ED 6450	Foundations of Special Education	3
c. Differentiated Learning	ED 6020 ED 6030 ED 6160 ED 6450 ED 7900	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Math Foundations of Special Education Student Teaching Seminar	3
d. Classroom Management	ED 6620 OR ED 6160	Foundations of Classroom Management Teaching Middle and Secondary Math	2 3
e. Cultural Diversity	ED 6010 ED 6150 ED 6160 ED 6450	Foundations of Education Field Experience and Action Research Teaching Middle and Secondary School Math Foundations of Special Education	2 3 3 3
f. Educational Psychology	ED 6400	Advanced Psychological Foundations	3

**3. Schools and the Teaching Profession**

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	ED 6010	Foundations of Education	2
	ED 6450	Foundations of Special Education	3
	ED 7900	Student Teaching Seminar	3
b. Legal/Ethical Aspects of Teaching	ED 6010	Foundations of Education	2
	ED 6450	Foundations of Special Education	3
	ED 7900	Student Teaching Seminar	3

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	ED 6020	Fundamentals of Literacy Learning	3
b. Instructional Interventions for Students with Reading Deficits	ED 6700	Methods of Diagnosing and Instruction for Remedial Reading	3
<b>Professional Requirements - Total Semester Hours</b>			<b>31</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	ED 6160	Teaching Middle and Secondary Math Curriculum, Methods, and Assessment in Secondary Education	1
	ED 6500	Foundations of Classroom Management	45 clock hours
	ED 6620		
2. Mid-Level Field Experiences; Minimum of one semester hour with a minimum of 45 clock hours	ED 6030	Technology in Education	1
	ED 6150	Field Experience and Action Research	45 clock hours
	ED 6450	Foundations of Special Education	
3. Culminating Clinical Experiences; Minimum of eight semester hours with a minimum of 12 weeks in one placement	ED 7850	Student Teaching in the Secondary School	9
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>11</b>

C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)				
	Course Number	Course Title	Semester Hours	
1. Calculus and Analytical Geometry; nine credit hours	MT 1800	Calculus I	3	
	MT 1810	Calculus II	3	
	MT 2800	Calculus III	3	
2. Algebraic Structures; three semester hours	MT 3810	Linear Algebra	3	
	MT 4900	Abstract Algebra	3	
3. Geometry; three semester hours	MT 3600	Modern Geometry	3	
4. Computer Science; three semester hours	MT 3410	Statistical Learning	3	
5. Electives from the above coursework; six semester hours	MT 3700	<b>May not use any course to meet more than one requirement</b> Differential Equations	3	
	MT 3810	Linear Algebra	3	
	MT 4900	Abstract Algebra	4	
6. Additional Mathematics coursework; Minimum of 12 semester hours to include at least three of the following areas of Mathematics;		<b>May not use any course to meet more than one requirement</b>		
	a. History of Mathematics; three credit hours			
	b. Structure of the Real Number System; three credit hours	MT 1510	Discrete Structures	3
	c. Number Theory; three credit hours	MT 3550	Number Theory	3
	d. Completion of Calculus Sequence; three credit hours			
	e. Probability and Statistics; three credit hours	MT 3400	Probability and Statistics	3
	f. Computer Science; three credit hours			
g. Linear Algebra (three semester hours)	MT 3810	Linear Algebra	3	
<b>Content Knowledge Area - Total Semester Hours</b>			<b>35</b>	

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