



MATHEMATICS, GRADES 9-12 – Graduate

EDUCATOR PREPARATION PROGRAM NAME

UNIVERSITY OF MISSOURI-KANSAS CITY

EDUCATOR PREPARATION PROGRAM CODE

116117

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	TCH-ED 5385 TCH-ED 5433	Teaching and Learning with Technology Special Methods of Teaching Mathematics in Middle and High Schools	1 1
b. Instructional Strategies and Techniques in Content Area Specialty	TCH-ED 5433 TCH-ED 5493	Special Methods of Teaching Mathematics in Middle and High Schools Seminar – Mathematics	1 1
c. Assessment, Student Data, and Data-Based Decision-Making	TCH-ED 5315	Assessment and Data Literacy	2
d. Strategies for Content Literacy	EDRD 5439, or EDRD 439, or EDRD 439	Language and Literacy across the Disciplines, or Language and Literacy across the Disciplines, or Content Area Reading And Language Development	3 (3) (3)
e. Critical Thinking and Problem Solving	TCH-ED 5385	Teaching and Learning with Technology	2
f. English Language Learning	TCH-ED 5314	Cultural Diversity and Teaching English Language Learners	2

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC-RP 5512	Adolescent Development in the School	3
b. Psychology/Education of the Exceptional Child	TCH-ED 5404	Education of the Exceptional Child and Youth	3
c. Differentiated Learning	TCH-ED 5438	Culturally Responsive Strategies for Teaching Diverse Learners	2
d. Classroom Management	TCH-ED 5330, or EDUC 5589GT	Analyzing Learning Environments in Urban Contexts, or Special Topics in Education: Gateway to Teaching	2 (2)
e. Cultural Diversity	TCH-ED 5438 TCH-ED 5314 TCH-ED 5330, or TCH-ED 430, or EDUC 5589GT	Culturally Responsive Strategies for Teaching Diverse Learners Cultural Diversity and Teaching English Language Learners Analyzing Learning Environments in Urban Contexts, or Gateway to Teaching, or Special Topics in Education: Gateway to Teaching	1 1 1 (1) (1)
f. Educational Psychology	EDUC-RP 5502	Advanced Educational Psychology	3

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	TCH-ED 5315	Assessment and Data Literacy	1
b. Legal/Ethical Aspects of Teaching	TCH-ED 5312	Legal and Ethical Aspects of Teaching	3

4. Secondary Literacy (Minimum of six semester hours)

	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDRD 439, or EDRD 5439, or EDRD 439	Language and Literacy Across the Disciplines, or Language and Literacy Across the Disciplines, or Content Area Reading and Language Development	3 (3) (3)
b. Instructional Interventions for Students with Reading Deficits	TCH-ED 5463	Literacy Intervention across the Disciplines	3

Professional Requirements - Total Semester Hours

36

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)	TCH-ED 5422	Practicum I – Middle and High School	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	TCH-ED 5423 TCH-ED 5424	Practicum II – Middle and High School Practicum III – Middle and High School	1 1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	TCH-ED 5437	Student Teaching in High School	9

Field and Clinical Experiences - Total Semester Hours

12

C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)

	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	9
2. Algebraic Structures (three semester hours)	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	3
3. Geometry (three semester hours)	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	3
4. Computer Science (three semester hours)	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	3
5. Electives from the above coursework (six semester hours)	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	6
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Mathematics Content Knowledge Area.	12
a. History of Mathematics (three semester hours)			
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)			
e. Probability and Statistics (three semester hours)			
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)			

Content Knowledge Area - Total Semester Hours

36

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