



EARTH SCIENCE, GRADES 9-12 – Graduate

EDUCATOR PREPARATION PROGRAM NAME UNIVERSITY OF MISSOURI-KANSAS CITY	EDUCATOR PREPARATION PROGRAM CODE 116117
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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	TCH-ED 5385 TCH-ED 5435	Teaching and Learning with Technology Special Methods of Teaching Science in Middle and High Schools	1 1
b. Instructional Strategies and Techniques in Content Area Specialty	TCH-ED 5435 TCH-ED 5495	Special Methods of Teaching Science in Middle and High Schools Seminar – Science	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	Language and Literacy across the Discipline, or Content Area Reading And Language Development	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			

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			

C. Earth Science Content Knowledge Area (Minimum of 35 semester hours)			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (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 Earth Science Content Knowledge Area.	3
2. Earth Science Coursework – Minimum of 20 semester hours which must include:	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Earth Science Content Knowledge Area.	20
a. Astronomy			
b. Meteorology			
c. Geology/Physical Geography			
d. Earth Science Electives			
3. Additional Science Coursework – Minimum of 12 semester hours which must include:	FROM BA	Acceptable content coursework must have been completed along with a Bachelor's Degree and must be equivalent to UMKC's approved undergraduate Earth Science Content Knowledge Area.	12
a. Chemistry			
b. Biology			
c. Physics			
d. Environmental Science			
Content Knowledge Area - Total Semester Hours			35

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