



PHYSICS, GRADES 9-12 - ALTERNATIVE

EDUCATOR PREPARATION PROGRAM NAME University of MO- 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 5435 and EDUC-C&I 5591	Special Methods of Teaching Science in Middle & High School Curriculum & Instruction for the 21 st Century	1 2
b. Instructional Strategies and Techniques in Content Area Specialty	TCH-ED 5435	Special Methods of Teaching Science in Middle and High School	2
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC-C&I 5518	Assessment of Diverse Learners, Engagement & Motivation	1
d. Strategies for Content Literacy	EDRD 5439	Language & Literacy Across the Disciplines	n/a
e. Critical Thinking and Problem Solving	EDUC-C&I 5512	Strategies For Effective Classroom Management	1
f. English Language Learning	EDUC-C&I 5548	English As A Second Language in the Content Areas	3
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC-RP 5512	Adolescent Development and the School	3
b. Psychology/Education of the Exceptional Child	TCH-ED 5404 or TCH-ED 404	Education of the Exceptional Child and Youth	3
c. Differentiated Learning	EDUC-C&I 5561	Teaching Diverse Populations in Today's Classrooms	2
d. Classroom Management	EDUC-C&I 5512	Strategies For Effective Classroom Management	1
e. Cultural Diversity	EDUC-C&I 5561	Teaching Diverse Populations in Today's Classrooms	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	EDUC-C&I 5518	Assessment of Diverse Learners, Engagement & Motivation	1
b. Legal/Ethical Aspects of Teaching	TCH-ED 5312	Legal and Ethical Aspects of Teaching	3
4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDRD 5439	Language & Literacy Across the Disciplines	3
b. Instructional Interventions for Students with Reading Deficits	TCH-ED 5463	Literacy Intervention Across the Disciplines	3
Professional Requirements - Total Semester Hours			33

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)	TCH-ED 5422	Practicum I- Middle and High School	1
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	TCH-ED 5423	Practicum II- Middle and High School	1
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	TCH-ED 5437	Student Teaching in High School	9
Field and Clinical Experiences - Total Semester Hours			11
C. Physics Content Knowledge Area (Minimum of 35 semester hours)			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (3 semester hours)		Satisfied by passing the Missouri Content Assessment	
2. Physics Coursework – Minimum of 20 semester hours which must include		Satisfied by passing the Missouri Content Assessment	
a. Mechanics		Satisfied by passing the Missouri Content Assessment	
b. Electricity and Magnetism		Satisfied by passing the Missouri Content Assessment	
c. Heat, Sound, and Light		Satisfied by passing the Missouri Content Assessment	
d. Atomic or Modern Physics		Satisfied by passing the Missouri Content Assessment	
e. Physics Electives		Satisfied by passing the Missouri Content Assessment	
3. Additional Science Coursework – Minimum of 12 semester hours which must include			
a. Chemistry		Satisfied by passing the Missouri Content Assessment	
b. Biology		Satisfied by passing the Missouri Content Assessment	
c. Earth Science		Satisfied by passing the Missouri Content Assessment	
d. Environmental Science		Satisfied by passing the Missouri Content Assessment	
Content Knowledge Area - Total Semester Hours			

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