



**UNIFIED SCIENCE: EARTH SCIENCE, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME	EDUCATOR PREPARATION PROGRAM CODE
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**INSTRUCTIONS**

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

**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 Gale Hairston, 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			
b. Instructional Strategies and Techniques in Content Area Specialty			
c. Assessment, Student Data, and Data-Based Decision-Making			
d. Strategies for Content Literacy			
e. Critical Thinking and Problem Solving			
f. English Language Learning			

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent			
b. Psychology/Education of the Exceptional Child			
c. Differentiated Learning			
d. Classroom Management			
e. Cultural Diversity			
f. Educational Psychology			

**3. Schools and the Teaching Profession**

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration			
b. Legal/Ethical Aspects of Teaching			

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<b>4. Secondary Literacy (Minimum of six semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Reading and Writing in the Content Area			
b. Instructional Interventions for Students with Reading Deficits			
<b>Professional Requirements - Total Semester Hours</b>			
<b>B. Field and Clinical Experiences (Minimum of ten semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)			
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)			
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)			
<b>Field and Clinical Experiences - Total Semester Hours</b>			
<b>C. Unified Science: Earth Science Content Knowledge Area (Minimum of 50 semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. History/Philosophy of Science and Technology (three semester hours)			
2. Biology – six semester hours which must include:			
a. Zoology with lab			
b. Botany with lab			
3. Chemistry with labs (six semester hours)			
4. Physics with labs (six semester hours)			
5. Earth Science – six semester hours which must include:			
a. Geology			
b. Meteorology			
6. Environmental Science (three semester hours)			
7. Additional Earth Science coursework – 20 semester hours which must include:			
a. Geology			
b. Astronomy			
c. Meteorology			
d. Paleontology			
e. Oceanography			
<b>Content Knowledge Area - Total Semester Hours</b>			