



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

EARTH SCIENCE, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME PARK UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 511931
---	--

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	EDU 351	Strategies for Higher-Order Learning	1.5
b. Instructional Strategies and Techniques in Content Area Specialty	EDS 395C	Methodology in the Content Area (Science)	3.0
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 362	Observation, Assessment & Data-based Decision Making	3.0
d. Strategies for Content Literacy	EDS 358 EDU 384	Literacy in the Content Area Meeting Literacy Needs of All Learners	1.5 1.5
e. Critical Thinking and Problem Solving	EDU 351	Strategies for Higher-Order Learning	1.5
f. English Language Learning	EDU 345	Teaching Linguistically and Culturally Diverse Learners	2.5

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PS 125	LifeSpan Development	1.5
b. Psychology/Education of the Exceptional Child	EDU 375	Exceptional Children & Differentiated Learning	1.5
c. Differentiated Learning	EDU 375	Exceptional Children & Differentiated Learning	1.5
d. Classroom Management	EDS 352	Building an Effective, Equitable Learning Environment	3.0
e. Cultural Diversity	EDU 345	Teaching Linguistically and Culturally Diverse Learners	0.5
	EDU 310	Issues in Diversity & World Cultures	3.0
f. Educational Psychology	EDU 203	Educational Psychology	1.5

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 347	Family, School, and Community Collaboration	3.0
b. Legal/Ethical Aspects of Teaching	EDU 210	The School as a Social System	3.0

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6th Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email civilrights@dese.mo.gov.

4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 300 EDS 358	Writing in Education Reading and Writing in the Content Area	3.0 1.5
b. Instructional Interventions for Students with Reading Deficits	EDU 384	Meeting Literacy Needs in All Learners	1.5
Professional Requirements - Total Semester Hours			39
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)	EDS 360A	Field Experience I	2.0
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	EDS 360B	Field Experience II	2.0
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	EDS 410	Field Experience III	12.0
Field and Clinical Experiences - Total Semester Hours			16
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)	NS 241 OR NS 304	Philosophy and History of Science OR Science, Technology, and Society	3.0 OR 3.0
2. Earth Science Coursework – Minimum of 20 semester hours which must include:			
a. Astronomy	GO 130 w/lab	Astronomy w/lab	4.0
b. Meteorology	GGP 205 w/lab	Meteorology w/lab	4.0
c. Geology/Physical Geography	GO 141 w/lab AND GGP 115 w/lab	Physical Geology w/lab AND Physical Geography w/lab	4.0 AND 4.0
d. Earth Science Electives	GO 151 w/lab	History of the Earth w/lab	4.0
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CH 107 w/lab	General Chemistry I w/lab	4.0
b. Biology	BIO 221 w/lab OR BIO 225 w/lab	Zoology w/lab OR Botany w/lab	4.0 OR 4.0
c. Physics	PY 155 w/lab	Concepts of Physics I w/lab	4.0
d. Environmental Science	BI 111 w/lab OR GGP 120 OR BI 301	Environmental Biology w/lab OR Global Sustainability OR Human Ecology	4.0 OR 3.0 OR 3.0
Content Knowledge Area - Total Semester Hours			38-39