



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

**BIOLOGY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>PARK UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>511931</b>
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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](mailto: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](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	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 EDU 310	Teaching Linguistically and Culturally Diverse Learners Issues in Diversity & World Cultures	0.5 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

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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
<b>Professional Requirements - Total Semester Hours</b>			<b>39</b>
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
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>16</b>
C. Biology Content Knowledge Area (Minimum of 35 semester hours)			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (Minimum of 3 semester hours)	NS 241 OR NS 304	Philosophy and History of Science OR Science, Technology, and Society	3.0 OR 3.0
2. Biology Coursework – Minimum of 20 semester hours which must include			
a. Cell Biology	BIO 325	Introduction to Molecular Cell Biology	3.0
b. Plant Form and Function	BIO 225 w/lab	Botany w/lab	4.0
c. Animal Form and Function	BIO 221 w/lab	Zoology w/lab	4.0
d. Genetics	BIO 340 w/lab	Genetics w/lab	4.0
e. Evolution	BIO 327 w/lab	Introductory Ecology and Evolution w/lab	4.0
f. Biology Electives	BIO 306 OR BIO 211 w/lab	Biological Literature OR Human Anatomy and Physiology w/lab	3.0 OR 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. Physics	PY 155 w/lab	Concepts of Physics I w/lab	4.0
c. Earth Science	GO 141 w/lab	Physical Geology w/lab	4.0
d. Environmental Science	GGP 120 OR BI 301	Global Sustainability OR Human Ecology	3.0 OR 3.0
<b>Content Knowledge Area - Total Semester Hours</b>			<b>40-41</b>