



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

MATHEMATICS, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME PARK UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 511931
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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	EDU 351	Strategies for Higher-Order Learning	1.5
b. Instructional Strategies and Techniques in Content Area Specialty	EDS 395D	Methodology in the Content Area (Mathematics)	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
f. Educational Psychology	EDU 310 EDU 203	Issues in Diversity & World Cultures Educational Psychology	3.0 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
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. Mathematics Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	MA 221 MA 222	Calculus & Analytic Geometry I Calculus & Analytic Geometry II	5.0 5.0
2. Algebraic Structures (three semester hours)	MA 312	Abstract Algebraic Structures	3.0
3. Geometry (three semester hours)	MA 360	Modern Geometries	3.0
4. Computer Science (three semester hours)	CS 208	Discrete Mathematics	3.0
5. Electives from the above coursework (six semester hours)	MA 223 MA 311	Calculus & Analytic Geometry III Linear Algebra	3.0 3.0
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:			
a. History of Mathematics (three semester hours)	MA 350	History of Mathematics	3.0
b. Structure of the Real Number System (three semester hours)	MA 401	Real Analysis	3.0
c. Number Theory (three semester hours)	MA 370	Number Theory	3.0
d. Completion of Calculus Sequence (three semester hours)			
e. Probability and Statistics (three semester hours)	MA 305	Probability	3.0
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)			
Content Knowledge Area – Total Semester Hours			37