



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

BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME
ROCKHURST UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE
501839

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.MoSPETtransition@dese.mo.gov on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or DESE.MoSPETtransition@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	ED 4030 ED 4260 ED 4500	Technology in Education Teaching Middle and Secondary School Science Curriculum Methods and Assessment for Secondary School	3
b. Instructional Strategies and Techniques in Content Area Specialty	ED 4030 ED 4260 ED 4500	Technology in Education Teaching Middle and Secondary School Science Curriculum Methods and Assessment for Secondary School	3
c. Assessment, Student Data, and Data-Based Decision-Making	ED 4260 ED 4500	Teaching Middle and Secondary School Science Curriculum, Methods, and Assessment in Secondary Education	3
d. Strategies for Content Literacy	ED 4020	Fundamentals of Literacy Learning	3
e. Critical Thinking and Problem Solving	ED 4020 ED 4030 ED 4260	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Science	3
f. English Language Learning	ED 4020 ED 4030 ED 4260 ED 4450	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Science Foundations of Special Education	3

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ED 4300	Child and Adolescent Development in Education	3
b. Psychology/Education of the Exceptional Child	ED 4450	Foundations of Special Education	3
c. Differentiated Learning	ED 4020 ED 4030 ED 4260 ED 4450 ED 4900	Fundamentals of Literacy Learning Technology in Education Teaching Middle and Secondary School Science Foundations of Special Education Student Teaching Seminar	3
d. Classroom Management	ED 3620 Or ED 4620 Or ED 4260	Foundations of Classroom Management Foundations of Classroom Management Teaching Middle and Secondary Science	2 2 3
e. Cultural Diversity	ED 1320 ED 4010 ED 4260 ED 4450	Multicultural Clinical Experience Foundations of Education Teaching Middle and Secondary School Science Foundations of Special Education	3 2 3 3
f. Educational Psychology	ED 4300	Child and Adolescent Development in Education	3

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
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a. Consultation and Collaboration	ED 4010 ED 4450 ED 4900	Foundations of Education Foundations of Special Education Student Teaching Seminar	2 3 3
b. Legal/Ethical Aspects of Teaching	ED 4010 ED 4450 ED 4900	Foundations of Education Foundations of Special Education Student Teaching Seminar	2 3 3

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	ED 4020	Fundamentals of Literacy Learning	3
b. Instructional Interventions for Students with Reading Deficits	ED 4700	Methods of Diagnosing and Instruction for Remedial Reading	3
Professional Requirements - Total Semester Hours			31

B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	ED 1320 ED 4260	Multicultural Clinical Experiences Teaching Middle and Secondary Science	1 30 clock hours
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	ED 3620 ED 4030 ED 4450 ED 4500	Foundations of Classroom Management Technology in Education Foundations of Special Education Curriculum, Methods, Assmnt in Sec Education	1 50 clock hours
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	ED 4850	Student Teaching in the Secondary School	9
Field and Clinical Experiences - Total Semester Hours			11

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 three semester hours)	PL 3850	Philosophy of Science	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BL 3620 BL 3621	Cell Biology Cell Biology Laboratory	3 1
b. Plant Form and Function	BL 3350 BL 3351	Plant Biology Plant Biology Laboratory	2 1
c. Animal Form and Function	BL 3230 BL 3200	Animal Behavior Invertebrate Zoology	3 2
d. Genetics	BL 3610 BL 3611	Genetics Genetics Laboratory	3 1
e. Evolution	BL 4800	Evolution	3

