



BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME WILLIAM WOODS UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 511106
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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	BIO 418, EDU 211, EDU 291, EDU 492	Methods of Teaching, Educational Technology, Pre Student Teaching 1 or Beginning Clinical Experience, Educational Seminar	3
b. Instructional Strategies and Techniques in Content Area Specialty	BIO 418, EDU 211, EDU 291, EDU 392, EDU 492	Methods of Teaching, Educational Technology, Pre Student Teaching 1 or Beginning Clinical Experience, Reading in the Content Area or Reading and Writing in the Content Area, Educational Seminar	3
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 422	Measurement and Assessment	3
d. Strategies for Content Literacy	EDU 392	Reading in the Content Area or Reading and Writing in the Content Area	3
e. Critical Thinking and Problem Solving	EDU 211, EDU 291, EDU 292 or EDU 395, EDU 392, EDU 492	Educational Technology, Pre Student Teaching 1 or Beginning Clinical Experience, Pre Student Teaching 2 or Intermediate Clinical Experience, Reading in the Content Area or Reading and Writing in the Content Area, Educational Seminar	3
f. English Language Learning	EDU 201, EDU 292 or EDU 395, EDU 392	Multicultural Education, Pre Student Teaching 2 or Intermediate Clinical Experience, Reading in the Content Area or Reading and Writing in the Content Area	2

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY 226 or PSY 209 AND PSY 316	Child and Adolescent Psychology or Child Development and Adolescent Psychology	3/6
b. Psychology/Education of the Exceptional Child	EDU 231	Exceptional Child	3
c. Differentiated Learning	EDU 231, EDU 291, EDU 292 or EDU 395, EDU 392, BIO 418	Exceptional Child, Pre Student Teaching 1 or Beginning Clinical Experience, Pre Student Teaching 2 or Intermediate Clinical Experience, Reading in the Content Area or Reading and Writing in the Content Area, Methods of Teaching	3

d. Classroom Management	EDU 453	Classroom Management	3
e. Cultural Diversity	EDU 201, EDU 292 or EDU 395, EDU 492	Multicultural Education, Pre Student Teaching 2 or Intermediate Clinical Experience, Educational Seminar	2
f. Educational Psychology	PSY 221	Educational Psychology	3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 291, EDU 392, EDU 422, EDU 492, BIO 418	Pre Student Teaching 1 or Beginning Clinical Experience, Reading in the Content Area or Reading and Writing in the Content Area, Measurement and Evaluation, Educational Seminar, Methods of Teaching	3
b. Legal/Ethical Aspects of Teaching	EDU 250, EDU 291, EDU 492	Foundations of Education, Pre Student Teaching 1 or Beginning Clinical Experience , Educational Seminar	3
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 392	Reading in the Content Area or Reading and Writing in the Content Area	3
b. Instructional Interventions for Students with Reading Deficits	EDU 441	Analysis and Correction or Student Centered Reading and Writing Instruction	3
Professional Requirements - Total Semester Hours			50
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)	EDU 291	Pre Student Teaching 1 or Beginning Clinical Experience	1/2
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 292 or EDU 395	Pre Student Teaching 2 or Intermediate Clinical Experience	1/3
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 499; EDU 492	Supervised Student Teaching; Educational Seminar	12
Field and Clinical Experiences - Total Semester Hours			14/17
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)	SCI 205	Scientific Enterprise	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BIO 114/115	General Biology 1	4
b. Plant Form and Function	BIO 114/115 and 124/125	General Biology 1 and 2	4
c. Animal Form and Function	BIO 124/125	General Biology 2	4
d. Genetics	BIO 231/232 or BIO301/302	Genetics	4
e. Evolution	BIO 124/125 and BIO 317/318 or BIO 313/314	General Biology 2 AND Comparative Vertebrae Anatomy and Physiology OR Human Anatomy and Physiology 1	4
f. Biology Electives	BIO 303/4, BIO 333/34, BIO 323/24, BIO 330/31, BIO 430/431	Microbiology, Vertebrate Zoology, Human Anatomy and Physiology II, Ecology, Tropical Biology	4
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CHM 114/115 or CHM 124/125	General Chemistry 1 or 2	4
b. Physics	PHY 201/202	Physics 1	4
c. Earth Science	SCI 230	Earth Science	3
d. Environmental Science	BIO 209	Environmental Science	3

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