



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

BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME William Jewell College	EDUCATOR PREPARATION PROGRAM CODE 062273
---	---

***Courses marked with an asterisk address part of the competency, but the primary focus of the course is in another competency. Therefore, we list the course in multiple competencies but credit is only denoted in one to three focus areas.**

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 220	High Leverage Teaching Strategies (4 credit course)	1.00
	or	OR	
	EDU 216	Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i>	
	AND		
	EDU 275	Instructional Design & Assessment (4 credit course)	2.00
	EDU 501	Differentiated Instruction (4 credit course)	*
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 220	High Leverage Teaching Strategies (4 credit course)	1.00
	or	OR	
	EDU 216	Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i>	
	AND		
	EDU 280	Disciplinary Literacy & Methods of Instruction (5 credit course)	1.00
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 275	Instructional Design & Assessment (4 credit course)	2.00
	EDU 501	Differentiated Instruction (4 credit course)	*
d. Strategies for Content Literacy	EDU 280	Disciplinary Literacy & Methods of Instruction (5 credit course)	1.00
	EDU 308	Literacy Interventions in the Secondary Classroom (4 credit course)	1.00
e. Critical Thinking and Problem Solving	EDU 220	High Leverage Teaching Strategies (4 credit course)	1.00
	or	OR	
	EDU 216 (<i>transition</i>)	Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i>	
	AND		
	EDU 275	Instructional Design & Assessment (4 credit course)	*
	EDU 280	Disciplinary Literacy & Methods of Instruction (5 credit course)	*

f. English Language Learning	EDU 206 or EDU 234 (<i>transition</i>) EDU 501	Psychology & Education of Diverse Learners (4 credit course) OR Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i> AND Differentiated Instruction (4 credit course)	* 1.00
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDU 206 or EDU 234	Psychology & Education of Diverse Learners (4 credit course) OR Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i>	1.00
b. Psychology/Education of the Exceptional Child	EDU 206 or EDU 234	Psychology & Education of Diverse Learners (4 credit course) OR Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i>	2.00
c. Differentiated Learning	EDU 501	Differentiated Instruction (4 credit course)	2.00
d. Classroom Management	EDU 220 or EDU 216 (<i>transition</i>) EDU 501	High Leverage Teaching Strategies (4 credit course) OR Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i> AND Differentiated Instruction (4 credit course)	1.00 1.00
e. Cultural Diversity	CTI 200 or CTI 150 or CTI 219 (also listed as COM 358)	U.S. Pluralism (4 credit course) OR Identity & Society (2 credit course) OR Intercultural Communication (4 credit course)	2.00-4.00
f. Educational Psychology	EDU 206 or EDU 234 (<i>transition</i>) EDU 220 or EDU 216 EDU 501	Psychology & Education of Diverse Learners (4 credit course) OR Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i> AND High Leverage Teaching Strategies (4 credit course) OR Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i> Differentiated Instruction (4 credit course)	1.00 * *
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 401	Reflective Student Teaching Seminar (4 credit course)	2.00
b. Legal/Ethical Aspects of Teaching	EDU 401	Reflective Student Teaching Seminar (4 credit course)	2.00
4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 280	Disciplinary Literacy & Methods of Instruction (5 credit course)	3.00
b. Instructional Interventions for Students with Reading Deficits	EDU 308	Literacy Interventions in the Secondary Classroom (4 credit course)	3.00
Professional Requirements - Total Semester Hours			31.00-33.00

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)	EDU 212	Clinical Fieldwork I	1.00
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	EDU 213	Clinical Fieldwork II	1.00
	EDU 214	Clinical Fieldwork III	1.00
	EDU 311	Clinical Fieldwork IV	1.00
	EDU 315	Clinical Fieldwork V	1.00
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	EDU 420	Student Teaching in Secondary School I &	6.00
	EDU 421	Student Teaching in Secondary School II	6.00
Field and Clinical Experiences - Total Semester Hours			17.00
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)	PHI 357	Contemporary Philosophy of Science	3.00-4.00
2. Biology Coursework – Minimum of 20 semester hours which must include			
a. Cell Biology	BIO 233	Cell & Molecular Biology & Lab	4.00-5.00
b. Plant Form and Function	BIO 134	Biological Diversity & Lab	2.50
c. Animal Form and Function	BIO 134	Biological Diversity & Lab	2.50
d. Genetics	BIO 234	Genetics & Lab	4.00-5.00
e. Evolution	BIO 133	Evolution & Ecology & Lab	3.00
f. Biology Electives	One or more selected from: BIO 310 BIO 312 BIO 314 BIO 316 BIO 321 BIO 325 BIO 357 BIO 404 BIO 452 BIO 453 BMS 126 BMS 243 BMS 250 CTI 257 CTI 259 CTI 261	4 credits or more selected from: Plant Biology & Lab Entomology & Lab Herpetology & Lab Biogeography & Lab Microbiology & Lab Developmental Biology & Lab Animal Behavior & Lab Plant Animal Interactions & Lab Molecular Genetics & Lab Ecology & Lab Intro to Microbiology & Lab Human Anatomy & Lab Human Physiology Emerging & Re-emerging Diseases Ecology of Food Ethnobotany	4.00-5.00
3. Additional Science Coursework – Minimum of 12 semester hours which must include			
a. Chemistry	CHE 113 OR CHE 121 OR CHE 122	Fundamentals of General, Organic & Biological Chemistry OR Gen Chem I & Lab OR Gen Chem II & Lab	4.00-5.00
b. Physics	One of the following: PHY 111 PHY 112 PHY 213 PHY 214	One of the following for 4-5.0 credits: College Physics I & Lab College Physics II & Lab General Physics I & Lab General Physics II & Lab	4.0-5.0
c. Earth Science	CTI 258 OR CTI 262	Astronomy & Cosmology Astrobiology	3.00-4.00
d. Environmental Science	BIO 133 OR CTI 260	Evolution and Ecology Sustainability & the World's Resources	3.00-4.00
Content Knowledge Area - Total Semester Hours			37-45

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.