



**BIOLOGY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>LINCOLN UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>117117</b>
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**INSTRUCTIONS**

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

**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**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Curriculum and Instructional Planning	EDU 316	Techniques in Teaching	3
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 417S	Methods, Materials, and Observations in Teaching Science	2
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 325	Assessment and Data Driven Decision Making	3
d. Strategies for Content Literacy	EDU 420	Teaching Reading in the Content Areas	3
e. Critical Thinking and Problem Solving	EDU 316	Techniques in Teaching	3
f. English Language Learning	SE 350	Language Acquisition/ELL	3

**2. Individual Student Needs**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Psychological Development of the Child and Adolescent	EDU 322	Psychology of Child & Adolescent Development – Secondary	3
b. Psychology/Education of the Exceptional Child	SE 221	Education of the Exceptional Child	3
c. Differentiated Learning	EDU 317	Differentiated Instruction	3
d. Classroom Management	EDU 435	Classroom Management	3
e. Cultural Diversity	EDU 260	Education and Cultural Diversity	3
f. Educational Psychology	EDU 204	Educational Psychology	3

**3. Schools and the Teaching Profession**

	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Consultation and Collaboration	EDU 475	Collaboration and Consultation in Educational Settings	2

b. Legal/Ethical Aspects of Teaching	EDU 251	Professional Educator Legal & Ethical Issues	3
<b>4. Secondary Literacy (Minimum of six semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Reading and Writing in the Content Area	EDU 420	Teaching Reading in the Content Areas	3
b. Instructional Interventions for Students with Reading Deficits	EDU 429	Instructional Interventions for Students with Reading Deficits	3
<b>Professional Requirements - Total Semester Hours</b>			<b>36</b>
<b>B. Field and Clinical Experiences (Minimum of ten semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	EDU 202	Observations	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 304	Practicum in Secondary Education	2
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 477	Student Teaching in Secondary School	10
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>13</b>
<b>C. Biology Content Knowledge Area (Minimum of 35 semester hours)</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
1. History/Philosophy of Science and Technology (Minimum of three semester hours)	EDU 443	History and Philosophy of Science and Technology	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BIO 312	Molecular Biology of the Cell	4
b. Plant Form and Function	BIO 155	Biology II	4
c. Animal Form and Function	BIO 150	Biology I	4
d. Genetics	BIO 310	General Genetics	4
e. Evolution	BIO 423	Ecology	4
f. Biology Electives			
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CHM 101	General Chemistry I	4
b. Physics	PHY 101	College Physics I	4
c. Earth Science	PHY 103 PHY 104L	Earth Science Earth Science Laboratory	3 1
d. Environmental Science	ENV 103 ENV 103L	Introduction to Environmental Science Introduction to Environmental Science Lab	3 1
<b>Content Knowledge Area - Total Semester Hours</b>			<b>39</b>

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