



BIOLOGY, GRADES 9-12 - ALTERNATIVE

EDUCATOR PREPARATION PROGRAM NAME UNIVERSITY OF MISSOURI (COLUMBIA)	EDUCATOR PREPARATION PROGRAM CODE 116116
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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 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	LTC 4631/7631	Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	1.0
	LTC 4641/7641	Teaching Middle and Secondary Science II	0.75
b. Instructional Strategies and Techniques in Content Area Specialty	LTC 4631/7631	Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	0.75
	LTC 4641/7641	Teaching Middle and Secondary Science II	0.75
c. Assessment, Student Data, and Data-Based Decision-Making	LTC 4631/7631	Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	0.5
	LTC 4641/7641	Teaching Middle and Secondary Science II	0.75
	SPC_ED 4020/7020	Teaching the Exceptional Learner	0.5
d. Strategies for Content Literacy	LTC 4631/7631	Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	1.0
	LTC 4560/7560 Or LTC 8642	Reading and Writing in Content Areas Or Teaching Writing and Reading in Content Areas	See below
	LTC 4631/7631	Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	0.75
e. Critical Thinking and Problem Solving	LTC 4641/7641	Teaching Middle and Secondary Science II	0.75
	LTC 4460/7460	Teaching English to Speakers of Other Languages	3
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ESC_PS 2010/7000 OR ESC_PS 7160	Foundation of Teacher Prep I OR Developmental Aspects of Human Learning	1.5
b. Psychology/Education of the Exceptional Child	SPC_ED 4020/7020	Teaching the Exceptional Learner	0.75
c. Differentiated Learning	SPC_ED 4020/7020	Teaching the Exceptional Learner	0.75
d. Classroom Management	SPC_ED 4020/7020	Teaching the Exceptional Learner	0.25
	SPC_ED 4310/7310 OR SPC_ED 8440	Behavioral Management for Exceptional Students OR Advanced Behavior Management: Applied Behavior Analysis	3 3
	LTC 2040/7040	Inquiry into Schools, Community & Society I	1
f. Educational Psychology	ESC_PS 2010/7000 OR ESC_PS 7160	Foundation of Teacher Prep I OR Developmental Aspects of Human Learning	1.5

3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	LTC 2040/7040 SPC_ED 4020/7020	Inquiry into Schools, Community & Society I Teaching the Exceptional Learner	1 0.25
b. Legal/Ethical Aspects of Teaching	LTC 2040/7040 SPC_ED 4020/7020	Inquiry into Schools, Community & Society I Teaching the Exceptional Learner	1 0.5
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	LTC 4560/7560	Reading and Writing in Content Areas	3
	Or LTC 8642	Or Teaching Writing and Reading in Content Areas	3
b. Instructional Interventions for Students with Reading Deficits	LTC 4565/7565	Reading & Writing in the Content Area II	3
Professional Requirements - Total Semester Hours			28
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)	ESC_PS 2014	Inquiry into Learning I field	1
	Or LTC 2044 field	Or Inquiry into Schools Communities Societies field	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	LTC 8942	Advanced Internship in Curriculum and Instruction	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	LTC 8942	Advanced Internship in Curriculum and Instruction OR Two years of teaching experience while on a provisional certificate	8
Field and Clinical Experiences - Total Semester Hours			10
C. Biology Content Knowledge Area (Minimum of 35 semester hours)			
All candidates must possess a Bachelor's degree in a related content area and pass the designated Missouri Content Assessment			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (Minimum of three semester hours)			
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology			
b. Plant Form and Function			
c. Animal Form and Function			
d. Genetics			
e. Evolution			
f. Biology Electives			
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry			
b. Physics			
c. Earth Science			
d. Environmental Science			
Content Knowledge Area - Total Semester Hours			

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.