

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

BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME UNIVERSITY OF MISSOURI (COLUMBIA)

EDUCATOR PREPARATION PROGRAM CODE

INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

Professional Requirements (Minimum of 26 semester hours)

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

		Course Number	Course Title	Semester Hours		
а	Curriculum and Instructional Planning	LTC 1155 LTC 4631	Orientation Teach. Sci. Second. Sch.: Phil., Hist., Sci. Inq., Curr., Assm.& Teach I	1 See Below		
		LTC 4641	Teaching Middle and Secondary Science II	See Below		
b	Instructional Strategies and Techniques in Content Area Specialty	IS_LT 4467 LTC 4631	Technology to enhance Learning Teach. Sci. Second. Sch.: Phil., Hist., Sci. Inq., Curr., Assm.& Teach I	3 1		
		LTC 4641	Teaching Middle and Secondary Science II	0.5		
C	Assessment, Student Data, and Data-Based Decision-Making	ESC_PS 2010 ED_LPA 4060	Inquiry into Learning I Inquiry into Schools, Community & Society II	1 0.75		
d	Strategies for Content Literacy	SPC_ED 4020 LTC 4560	Teaching the Exceptional Learner Reading & Writing in the Content Area I	.75 See Belov		
е	Critical Thinking and Problem Solving	LTC 4631	Teach. Sci. Second. Sch.: Phil., Hist., Sci. Inq., Curr., Assm.& Teach I	1		
		LTC 4641	Teaching Middle and Secondary Science II	0.5		
f.	English Language Learning	LTC 4460	Teaching English to Speakers of Other Languages	3		
2. Ir	Individual Student Needs					
		Course Number	Course Title	Semester Hours		
а	Adolescent	ESC_PS 2010 LTC 2200	Inquiry into Learning I School Health & Student Wellbeing	1 1.5		
b	Psychology/Education of the Exceptional Child	SPC_ED 4020	Teaching the Exceptional Learner	.75		
C	Differentiated Learning	SPC ED 4020	Teaching the Exceptional Learner	.75		
	Differentiated Learning	SPC_ED 4020	reaching the Exceptional Learner	.73		
d	. Classroom Management	SPC_ED 4310	Behavioral Management for Exceptional Students	3		
	Classroom Management	_	Behavioral Management for Exceptional			
d	Classroom Management Cultural Diversity	SPC_ED 4310 LTC 2040 ED_LPA 4060	Behavioral Management for Exceptional Students Inquiry into Schools, Community & Society I Inquiry into Schools, Community & Society II	3 .75		
d e	Classroom Management Cultural Diversity	SPC_ED 4310 LTC 2040 ED_LPA 4060 LTC 2200	Behavioral Management for Exceptional Students Inquiry into Schools, Community & Society I Inquiry into Schools, Community & Society II School Health & Student Wellbeing	3 .75 1.5		
d e	Classroom Management Cultural Diversity Educational Psychology	SPC_ED 4310 LTC 2040 ED_LPA 4060 LTC 2200	Behavioral Management for Exceptional Students Inquiry into Schools, Community & Society I Inquiry into Schools, Community & Society II School Health & Student Wellbeing	3 .75 1.5		

	b. Legal/Ethical Aspects of Teaching	SPC_ED 4020	Teaching the Exceptional Learner	.75	
		ED_LPA 4060	Inquiry into Schools, Community & Society II	.75	
4	4. Secondary Literacy (Minimum of six semester	hours)			
		Course Number	Course Title	Semester Hours	
	a. Reading and Writing in the Content Area	LTC 4560	Reading & Writing in the Content Area I	3	
	b. Instructional Interventions for Students with Reading Deficits	LTC 4565	Reading & Writing in the Content Area II	3	
	Reading Denois	Professiona	al Requirements - Total Semester Hours	34	
3. Fie	ield 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 LTC 2044	Inquiry into Learning I field Inquiry into Schools, Community & Society I field	1 1	
2	Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	LTC 4634 LTC 4644	Teaching Science in Sec School I field Teaching Science in Sec School II field	1 1	
3	Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	LTC 4971	Internship & Capstone	12	
			cal Experiences - Total Semester Hours	16	
. В	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)	LTC 4631	Teach. Sci. Second. Sch.: Phil., Hist., Sci. Inq., Curr., Assm.& Teach I	2	
	B: 1 0 1 M: 1 (00	LTC 4641	Teaching Middle and Secondary Science II	2	
2	Biology Coursework – Minimum of 20 semester hours which must include:				
	a. Cell Biology	BIO_SC 2300	Cell Biology	4	
	b. Plant Form and Function	BIO_SC 1200 or BIO_SC 3210	General Botany w/ Lab Plant Systematics	5 or 4	
	c. Animal Form and Function	BIO_SC 3700 or MPP 3202	Animal Physiology Elements of Physiology	5 or 5	
	d. Genetics	BIO_SC 2200	General Genetics	4	
	e. Evolution	BIO_SC 4600	Evolution	3	
	f. Biology Electives	BIO_SC 4994	Teaching Middle/Secondary Biology	3	
3	Additional Science Coursework – Minimum of 12 semester hours which must include:				
	a. Chemistry	CHEM 1320 CHEM 1330	College Chemistry I College Chemistry II	4 4	
	I		College Physics I	4	
	b. Physics	PHYSCS 1210	College i flysics i		
	b. Physics c. Earth Science	PHYSCS 1210 GEOL 1200	Environmental Geology with Lab	2	
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