



**BIOLOGY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>MISSOURI BAPTIST UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>041538</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**

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
b. Instructional Strategies and Techniques in Content Area Specialty	EDMS 483/583	Teaching Science for Middle/Secondary: Seminar and Field Experience	3
c. Assessment, Student Data, and Data-Based Decision-Making	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
d. Strategies for Content Literacy	EDRD 423/523	Integration of Literacy in the Content Areas	2
e. Critical Thinking and Problem Solving	EDUC 201	Professional Growth & Folio Development I	1
	EDUC 303	Methods of Teaching and Differentiated Instruction	1
	EDUC 373 OR EDUC 573	Technology and Instructional Media OR Applications of Technology in Teaching and Learning	3
f. English Language Learning	EDUC 203	Teaching in a Diverse Society: Seminar and Field Experience	1
	EDRD 423/523	Integration of Literacy in the Content Areas Students transferring in a course for EDRD 423/523 which does not include a field experience working with English language learners must complete EDCL 420/520 Field Experience with English Language Learners.	1

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSYC 313 OR PSYC 553	Human Growth and Development OR Advanced Human Development	3
	EDPS 383	Psychology of Teaching and Learning	1
	EDPS 453/553	The Exceptional Child	1
b. Psychology/Education of the Exceptional Child	EDPS 453/553	The Exceptional Child	2
c. Differentiated Learning	EDUC 303	Methods of Teaching and Differentiated Instruction	2
d. Classroom Management	ETOP 423/523	Classroom and Behavior Management	2
e. Cultural Diversity	EDUC 203	Teaching in a Diverse Society: Seminar and Field Experience	2
		Students transferring in a course for EDUC 203 which does not include an embedded diversity field experience, must complete EDCL 200 Teaching in a Diverse Society Field Experience.	
f. Educational Psychology	EDPS 383	Psychology of Teaching and Learning	1

3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
	EDPS 383	Psychology of Teaching and Learning	0.5
	EDUC 210 AND 410/510	Teaching Field Experience I and II Seminar	0
	EDUC 401	Professional Growth and Folio Development II	1
	ETOP 423/523	Classroom and Behavior Management	0.5
b. Legal/Ethical Aspects of Teaching	EDPS 383	Psychology of Teaching and Learning	0.5
	EDUC 410/510	Teaching Field Experience II Seminar	0
	ETOP 423/523	Classroom and Behavior Management	0.5
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDRD 423/523	Integration of Literacy in the Content Areas	3
b. Instructional Interventions for Students with Reading Deficits	EDRD 463/563	Reading and Writing Strategies for Middle/Secondary Content Areas	3
<b>Professional Requirements - Total Semester Hours</b>			<b>35</b>
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)	EDCL 211	Teaching Field Experience I	1
	EDUC 210	Teaching Field Experience I Seminar	0
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDCL 411/511	Teaching Field Experience II	1
	EDUC 410/510	Teaching Field Experience II Seminar	0
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	ESCL 4712/5712	Student Teaching: Secondary	12
	EDUC 471	Student Teaching Seminar	1
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>15</b>
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)	IDST 313	History and Philosophy of Science and Technology	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BIOL 423	Cell Biology	3
b. Plant Form and Function	BIOL 123 AND BIOL 121	General Biology II AND General Biology II Lab	4
c. Animal Form and Function	BIOL 113 AND BIOL 111	General Biology I AND General Biology I Lab	3
d. Genetics	BIOL 343 AND BIOL 341	Genetics AND Genetics Lab	4
e. Evolution	BIOL 113 AND BIOL 111	General Biology I AND General Biology I Lab	1
f. Biology Electives	May choose any of the following: BIOL 203+201 BIOL 213+211 BIOL 223+221 BIOL 233 BIOL 273/373 AND BIOL 271/371 BIOL 303 BIOL 313A BIOL 313B BIOL 321B  BIOL 323A+321A OR BIOL 323B  BIOL 333 BIOL 353 BIOL 363 BIOL 382-384 BIOL 401	May choose any of the following:  Human Biology & Lab Anatomy and Physiology I & Lab Anatomy and Physiology II & Lab Plants and People Microbiology & Lab  Nutrition Science Spring Wildflowers of Missouri Flora and Fauna of Missouri Special Topics in Environmental Science  Environmental Science/Conservation & Lab OR Ecology (whichever course is not used below in 3d)  Plant Physiology Developmental Biology Pathophysiology Instructional Methods and Problems in BIOL Integrating Concepts of Biology	Minimum: 5

	BIOL 403+401L BIOL 413+411 BIOL 433A+431A BIOL 443 BIOL 453+451 BIOL 463A BIOL 473+471 BIOL 481-486 BIOT 213+211 BIOT 301 BIOT 313 BIOT 323 BIOT 483-486	General Zoology & Lab Plant Anatomy & Lab Immunology & Lab Advanced Human Physiology Taxonomy of the Flowering Plants & Lab Molecular Genetics Marine Biology & Lab Research in Biology Introduction to Biotechnology & Lab Biotechnology Seminar Experimental Biochemistry/Molecular Biology Bioethics Biotechnology Internship/Independent Research	
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CHEM 133 AND CHEM 132	General Chemistry I AND General Chemistry I Lab	5
b. Physics	PHYS 213 AND PHYS 211 OR PHYS 133 AND PHYS 131	General Physics I AND General Physics I Lab OR College Physics I AND College Physics I Lab	4
c. Earth Science	PHYS 123 AND PHYS 122	Geology and Earth Science AND Geology and Earth Science Lab	5
d. Environmental Science	BIOL 323A AND BIOL 321A OR BIOL 323B	Environmental Science and Conservation AND Lab OR Ecology	3-4
<b>Content Knowledge Area - Total Semester Hours</b>			<b>40-41</b>

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