



BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME SOUTHWEST BAPTIST UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 635440
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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	EDU 3333	Principles & Methods of Secondary Instruction	1
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 4522	Methods of Teaching Science in Middle & Secondary Schools	2
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 4832	Assessment & Evaluation of Learners	2
d. Strategies for Content Literacy	EDU 3613	Content Area Literacy	0
e. Critical Thinking and Problem Solving	EDU 3333	Principles & Methods of Secondary Instruction	0.2
f. English Language Learning	EDU 2313	Foundations of Education	1
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDU 3043 OR PSY 3063 AND PSY 4033	Learner Development & the Classroom OR Human Growth & Development AND Adolescent Development	3 3 3
b. Psychology/Education of the Exceptional Child	EDU 4842	Teaching Diverse Learners	2
c. Differentiated Learning	EDU 3333	Principles & Methods of Secondary Instruction	0.4
d. Classroom Management	EDU 3833	Behavior & Classroom Management	3
e. Cultural Diversity	EDU 2313	Foundations of Education	1
f. Educational Psychology	EDU 2113	Educational Psychology	3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 3333	Principles & Methods of Secondary Instruction	0.4
b. Legal/Ethical Aspects of Teaching	EDU 2313 EDU 4691	Foundations of Education Student Teaching Seminar	1 1
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 3613	Content Area Literacy	3
b. Instructional Interventions for Students with Reading Deficits	EDU 3013	Analyzing & Amending Reading Problems	3
Professional Requirements - Total Semester Hours			27-30

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)	EDU 2141	Field Experience Level I Secondary	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 3341	Field Experience Level II Secondary	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 4949	Student Teaching Secondary	10
Field and Clinical Experiences - Total Semester Hours			12
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)	PHS 3303	History/Philosophy of Science & Technology	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BIO 1004 BIO 2134 BIO 2234	Principles of Biology General Zoology General Botany	4 4 4
b. Plant Form and Function	BIO 2234	General Botany	0
c. Animal Form and Function	BIO 2134	General Zoology	0
d. Genetics	BIO 3324	Genetics	4
e. Evolution	BIO 1004 BIO 2134	Principles of Biology General Zoology	0 0
f. Biology Electives	BIO 2204 BIO 3304 BIO 3314 BIO 3344 BIO 3354 BIO 3364 BIO 3384 BIO 3394 BIO 3454 BIO 3544 BIO 4224 BIO 4404 BIO 4414 BIO 4444	Human Anatomy & Physiology I Human Anatomy & Physiology II Microbiology Vertebrate Physiology Plant Taxonomy Biochemistry Histology Pathogenic Microbiology Plant Physiology Wildlife Biology Cell & Molecular Biology Pathophysiology Freshwater Biology Vertebrate Embryology	12
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CHE 1115 CHE 1125	General Chemistry I General Chemistry II	5 5
b. Physics	PHY 1115	General Physics I	5
c. Earth Science	PHS 1114 OR PHS 2314	Introduction to Earth Science OR Astronomy	4
d. Environmental Science	BIO 2214 BIO 3334	Environmental Biology Ecology	4 4
Content Knowledge Area - Total Semester Hours			58