



**CHEMISTRY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME  
SOUTHWEST BAPTIST UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE  
635440

**INSTRUCTIONS**

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

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.MoSPETtransition@dese.mo.gov](mailto:DESE.MoSPETtransition@dese.mo.gov) on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or [DESE.MoSPETtransition@dese.mo.gov](mailto:DESE.MoSPETtransition@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 I Secondary	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 3341	Field Experience 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 in Secondary Schools	10
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>12</b>
<b>C. Chemistry Content Knowledge Area (Minimum of 35 semester hours)</b>			
	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. Chemistry Coursework – Minimum of 20 semester hours which must include:			
a. Inorganic Chemistry	CHE 1115 CHE 1125	General Chemistry I General Chemistry II	4 4
b. Analytical Chemistry	CHE 3345	Analytical Chemistry	5
c. Organic Chemistry	CHE 3304 CHE 3314	Organic Chemistry I Organic Chemistry II	4 4
d. Physical Chemistry	CHE 1115 CHE 1125	General Chemistry I General Chemistry II	1 1
e. Biochemistry	CHE 3364	Biochemistry	4
f. Chemistry Electives	SCF 3412	Chemistry Through the Eyes of Faith	2
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Biology	BIO 1004	Principles of Biology	4
b. Physics	PHY 1115 & 1125 OR PHY 2215 & 2225	General Physics I & General Physics II OR University Physics I & University Physics II	10
c. Earth Science	PHS 1114	Introduction to Earth Science	4
d. Environmental Science	CHE 3002	Environmental Chemistry	2
<b>Required Support Courses</b>	MAT 1195 CHE 3371	Analytics & Calculus I Seminar in Chemistry I	5 1
<b>Content Knowledge Area - Total Semester Hours</b>			<b>58</b>

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