



MATHEMATICS, 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.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 4513	Methods of Teaching Mathematic in Middle & Secondary Schools	3
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 28-31

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. Mathematics Content Knowledge Area (Minimum of 36 semester hours)			
	Course Number	Course Title	Semester Hours
1. Calculus and Analytical Geometry (nine semester hours)	MAT 1195 MAT 2255	Calculus I Calculus II	5 5
2. Algebraic Structures (three semester hours)	MAT 3313	Abstract Algebra	3
3. Geometry (three semester hours)	MAT 4483	Contemporary Geometry	3
4. Computer Science (three semester hours)	CIS 1033	Foundations of Computer Science	3
5. Electives from the above coursework (six semester hours)	MAT 2263 MAT 3332 MAT 3372	Calculus III Symbolic Logic & Set Theory Math Technologies	3 2 2
6. Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:			
a. History of Mathematics (three semester hours)	MAT 3382 SCF 3422	History of Mathematics Mathematics Through the Eyes of Faith	2 2
b. Structure of the Real Number System (three semester hours)			
c. Number Theory (three semester hours)			
d. Completion of Calculus Sequence (three semester hours)	MAT 4663	Advanced Calculus	3
e. Probability and Statistics (three semester hours)	MAT 3343	Mathematical Statistics	3
f. Computer Science (three semester hours)			
g. Linear Algebra (three semester hours)	MAT 3323	Linear Algebra	3
Content Knowledge Area - Total Semester Hours			39

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