



**CHEMISTRY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME EVANGEL UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 041617
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**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](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	EDUC 225	Introduction to Curriculum and Instruction Planning	1.5
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC 228	Instructional Strategies and Techniques in Content Area Specialty	2.5
	CHEM 336	Instructional Methods in Science	1
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC 434	Assessment and Data Based Decision Making	3
d. Strategies for Content Literacy	EDUC 352	Content Area Literacy	(3)
e. Critical Thinking and Problem Solving	EDUC 225	Curriculum and Instruction Planning	.5
f. English Language Learning	EDUC 271	Education of the Exceptional and English Language Learner	1

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSYC 237 or PSYC 233	Lifespan Human Growth and Development or Child and Adolescent Psychology	3
b. Psychology/Education of the Exceptional Child	EDUC 271	Education of the Exceptional and English Language Learner	2
c. Differentiated Learning	EDUC 228	Instructional Strategies and Techniques in Content Area Specialty	.5
d. Classroom Management	EDUC 421	Effective Engagement of the Learner	1.5
e. Cultural Diversity	ICST 350	Global Connections	3
f. Educational Psychology	EDUC 421	Effective Engagement Of the Learner	1.5

**3. Schools and the Teaching Profession**

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC 225 EDUC 427	Curriculum and Instruction Planning Seminar in Student Teaching	.5 2
b. Legal/Ethical Aspects of Teaching	EDUC 225	Curriculum and Instruction Planning	.5

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDUC 352	Content Area Literacy	3
b. Instructional Interventions for Students with Reading Deficits	EDUC 351-2	Analysis and Correction of Reading Difficulties	3
<b>Professional Requirements - Total Semester Hours</b>			<b>27</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)	EDUC 220	Level I Field Experience	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDUC 397 EDUC 497	Level II Field Experience Level III Field Experience	1 1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDUC 437 EDUC 427	Student Teaching Seminar	12 (2)
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>15</b>
C. Chemistry 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)	GSCI 230	History and Philosophy of Science	3
2. Chemistry Coursework – Minimum of 20 semester hours which must include:			
a. Inorganic Chemistry	CHEM 111	General Chemistry I	5
b. Analytical Chemistry	CHEM 378	Organic Analysis and Methods	2
c. Organic Chemistry	CHEM 271-272	Organic Chemistry	8
d. Physical Chemistry	CHEM 112	General Chemistry II	5
e. Biochemistry	CHEM 375	Biochemistry	4
f. Chemistry Electives	CHEM 377	Environmental Chemistry	4
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Biology	BIOL 101 and 342	Biol Science and Ecology	8
b. Physics	PHYS 211 or GSNI 115	General Physics I or Physical Science	4 or 5
c. Earth Science	GSCI 111 or GSCI 112	Geology or Meteorology	4
d. Environmental Science	BIOL 341 or BIOL 343	Marine biology or Environmental Biology	4
<b>Content Knowledge Area - Total Semester Hours</b>			<b>51 or 52</b>

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