



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

CHEMISTRY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME Culver-Stockton College	EDUCATOR PREPARATION PROGRAM CODE 018750
---	--

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 402 EDU 360	Methods in Secondary Chemistry/Science Middle School Curriculum	* 3
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 402	Methods in Secondary Chemistry/Science	2
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 404	Tests and Measurements	2
d. Strategies for Content Literacy	EDU 335	Content Literacy	*
e. Critical Thinking and Problem Solving	EDU 335	Content Literacy	*
f. English Language Learning	EDU 319/419 EDU 325	Secondary Literacy Diagnosis and Remediation Psych and Edu of Exceptional Children	* *

2. Individual Student Needs

	Course Number	Course Title	Semester
a. Psychological Development of the Child and Adolescent	EDU 201 or PSY 301	Edu Needs for Child and Adolescent Dev or Child and Adolescent Psychology	3 *
b. Psychology/Education of the Exceptional Child	EDU 325	Psych and Edu of Exceptional Children	3
c. Differentiated Learning	EDU 335 EDU 325	Content Literacy Psych and Edu of Exceptional Children	* *
d. Classroom Management	EDU 420	Classroom Organization and Management	3

e. Cultural Diversity	EDU 149 AND EDU 150 OR EDU 101 EDU 325 Choose one from COM 204 COM214 COM 311 GEO 201 HIS 220 HIS 225 HIS 240 HIS 280 HIS 308 HIS 320 HIS 324 HSC 460 MUS 160 POS 210 POS 304 POS 489 PSY 326 REL 120 REL 320 PHI/REL 340 SOC 311 SPN 105 or EXP 301/ (EDU/PSY/EDNG/ BIO/HIS/BUS/ART/ PED/MUS/CHE/LAW /REL/POS/CJ/THE/ SPM/ACT/FIN/HSC/C OM/ATR/SPN) 499	Explorations in Education AND Foundations of Education OR Foundations and Philosophy of Education Psych and Edu of Exceptional Children Interpersonal Communications Mass Media in Society Gender and Intercultural Communication Human Geography Latin America Modern China African American History Atlantic Revolutions War in Modern World History Modern Middle East Environmental History Health Promotion for Diverse and Special Pops Non-Western Music Politics of the Developing World Compar Politics and International Relations European Politics Social Psychology World Religions Peace and Violence in World Regions Philosophy of Religion Race and Ethnicity in the Region Beginning Spanish or Travel Study	3 * * * 3
f. Educational Psychology	EDU 201 or PSY 301	Edu Needs for Child and Adolescent Dev or Child and Adolescent Psychology	* *
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 249 EDU 349 EDU 401	Sophomore Field Experience Junior Field Experience Student Teaching	* * *
b. Legal/Ethical Aspects of Teaching	EDU 150 or EDU 101	Foundations of Education or Foundations and Philosophy of Education	*
4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 335	Content Literacy	3
b. Instructional Interventions for Students with Reading Deficits	EDU 319/419	Secondary Literacy Diagnosis and Remediation	3
Professional Requirements - Total Semester Hours			26
B. Field and Clinical Experiences (Minimum of 10 semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)	EDU 249	Sophomore Early Field Experience	1
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	EDU 349	Junior Early Field Experience	1
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	EDU 401	Student Teaching	12
Field and Clinical Experiences - Total Semester Hours			14

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 3 semester hours)	NAS 405	History and Philosophy of Science	3
2. Chemistry Coursework – Minimum of 20 semester hours which must include			
a. Inorganic Chemistry	CHE 251 CHE 252	General Chemistry I General Chemistry II	4 4
b. Analytical Chemistry	CHE 303	Analytical Chemistry	4
c. Organic Chemistry	CHE 301	Organic Chemistry I	4
d. Physical Chemistry	CHE 401	Physical Chemistry I	4
e. Biochemistry	CHE 305	Biochemistry	4
f. Chemistry Electives			
3. Additional Science Coursework – Minimum of 12 semester hours which must include			
a. Biology	BIO 201	General Biology I	3
b. Physics	PHY 201	General Physics I	4
c. Earth Science	NAS 204 OR NAS 202	Geology Meteorology	3 3
d. Environmental Science	NAS 108	Introduction to Environmental Science	3
Content Knowledge Area - Total Semester Hours			43

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6th Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email civilrights@dese.mo.gov.