



**CHEMISTRY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>WILLIAM JEWELL COLLEGE</b>	EDUCATOR PREPARATION PROGRAM CODE <b>062273</b>
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**\*Courses marked with an asterisk address part of the competency, but the primary focus of the course is in another competency. Therefore we list the course in multiple competencies but credit is only denoted in one to three focus areas.**

**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	EDU 220 or EDU 216 <i>(transition)</i>	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i>	1.00
	EDU 275 EDU 501	AND - Instructional Design & Assessment (4 credit course) - Differentiated Instruction (4 credit course)	2.00 *
b. Instructional Strategies and Techniques in Content Area Specialty	EDU 220 or EDU 216 <i>(transition)</i>	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i>	1.00
	EDU 280	AND - Disciplinary Literacy & Methods of Instruction (5 credit course)	1.00
c. Assessment, Student Data, and Data-Based Decision-Making	EDU 275 EDU 501	- Instructional Design & Assessment (4 credit course) - Differentiated Instruction (4 credit course)	2.00 *
d. Strategies for Content Literacy	EDU 280 EDU 308	- Disciplinary Literacy & Methods of Instruction (5 credit course) - Literacy Interventions in the Secondary Classroom (4 credit course)	1.00 1.00

e. Critical Thinking and Problem Solving	EDU 220 or EDU 216 ( <i>transition</i> )  EDU 275  EDU 280	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i> AND - Instructional Design & Assessment (4 credit course) - Disciplinary Literacy & Methods of Instruction (5 credit course)	1.00      *
f. English Language Learning	EDU 206 or EDU 234 ( <i>transition</i> )  EDU 501	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i> AND - Differentiated Instruction (4 credit course)	*      1.00
<b>2. Individual Student Needs</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Semester Hours</b>
a. Psychological Development of the Child and Adolescent	EDU 206 or EDU 234 ( <i>transition</i> )	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i>	1.00
b. Psychology/Education of the Exceptional Child	EDU 206 or EDU 234 ( <i>transition</i> )	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i>	2.00
c. Differentiated Learning	EDU 501	- Differentiated Instruction (4 credit course)	2.00
d. Classroom Management	EDU 220 or EDU 216 ( <i>transition</i> )  EDU 501	- High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i> AND - Differentiated Instruction (4 credit course)	1.00      1.00
e. Cultural Diversity	CTI 200 or CTI 150 or CTI 219 (also listed as COM 358)	- U.S. Pluralism (4 credit course) OR - Identity & Society (2 credit course) OR - Intercultural Communication (4 credit course)	4.00  2.00  4.00
f. Educational Psychology	EDU 206 or EDU 234 ( <i>transition</i> )  EDU 220 or EDU 216 ( <i>transition</i> )  EDU 501	- Psychology & Education of Diverse Learners (4 credit course) OR - Psychology and Education of the Exceptional Child I (3 credit course) <i>last offered in 14-15</i> AND - High Leverage Teaching Strategies (4 credit course) OR - Psychology of Development, Teaching & Learning (4 credit course) <i>last offered 14-15</i> - Differentiated Instruction (4 credit course)	1.00      *      *

3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDU 401	- Reflective Student Teaching Seminar (4 credit course)	2.00
b. Legal/Ethical Aspects of Teaching	EDU 401	- Reflective Student Teaching Seminar (4 credit course)	2.00
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDU 280	- Disciplinary Literacy & Methods of Instruction (5 credit course)	3.00
b. Instructional Interventions for Students with Reading Deficits	EDU 308	- Literacy Interventions in the Secondary Classroom (4 credit course)	3.00
<b>Professional Requirements - Total Semester Hours</b>			<b>31.00-33.00</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)	EDU 212	- Clinical Fieldwork I	1.00
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDU 213	- Clinical Fieldwork II	1.00
	EDU 214	- Clinical Fieldwork III	1.00
	EDU 311	- Clinical Fieldwork IV	1.00
	EDU 315	- Clinical Fieldwork V	1.00
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDU 420	- Student Teaching in Secondary School I &	6.00
	EDU 421	- Student Teaching in Secondary School II	6.00
<b>Field and Clinical Experiences -Total Semester Hours</b>			<b>17.00</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)	CTI 203 or PHI 357	- History & Philosophy of Science or - Contemporary Philosophy of Science	4.00
2. Chemistry Coursework – Minimum of 20 semester hours which must include:			
a. Inorganic Chemistry	CHE 122	- General Chemistry II & Lab	5.00
b. Analytical Chemistry	CHE 206	- Analytical Chemistry & Lab	5.00
c. Organic Chemistry	CHE 301	- Organic Chemistry I & Lab	5.00
	CHE 302	- Organic Chemistry II & Lab	5.00
d. Physical Chemistry	CHE 401	- Physical Chemistry I & Lab	5.00
e. Biochemistry	CHE 450	- Biochemistry and Lab	5.00
f. Chemistry Electives	CHE 205	- The Informed Chemist	1.00
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Biology	BIO 133	- Ecology and Evolution & Lab	2.50
b. Physics	One of the following PHY 111 PHY 112 PHY 213 PHY 214	- One of the following for (5) credits	5.00
		- College Physics I & Lab	
		- College Physics II & Lab	
		- General Physics I & Lab	
		- General Physics II & Lab	
c. Earth Science	CTI 258	- Astronomy & Cosmology (4 credit course)	2.50
d. Environmental Science	BIO 133	- Ecology and Evolution & Lab	2.50
<b>Content Knowledge Area - Total Semester Hours</b>			<b>47.5</b>

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